



Air Quality Monthly Report

August, 2025



Department of Environment
Ministry of Environment, Forest and Climate Change
Bangladesh

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Introduction:

Department of Environment (DoE), Bangladesh has established a countrywide air quality monitoring (AQM) network. The continuous monitoring of 6 (six) criteria pollutants ($PM_{2.5}$, PM_{10} , SO_2 , CO , NO_x and O_3) is being done by 31(thirty one) Continuous Air Monitoring Stations (CAMS) and Compact Continuous Air Monitoring Stations (C-CAMS) located in the divisional and industrial districts of the country; The network encompasses all the regions of the country - Dhaka, Narayanganj Gazipur, Savar, Mymensing, Narsindi in the center, Chittagong in the south-east. Khulna Cumilla and Barisal in the south, Rajshahi in the west, and Sylhet in the north-east regions, Rangpur in the north west of the country. And C-CAMS are located in Faridpur, Jashore, Satkhira, Bagerhat, Gopalganj, Tangail, Bogura, Tongi, BUET campus, Brahmanbaria, Feni, Noakhali, BSRM (Chattogram), Cox's-Bazar, Nagor Bhaban, Dhaka. The data and information generated from those stations are automatically collected in the central server and are disseminated through DoE website. Air Quality Index (AQI) for each city is calculated and published online daily for notifying the public about the status of air quality in their respective city.

Quality Assurance/Quality Control (QA/QC) methods and procedures are implemented with full documentation and are validated through an international certified calibration reference laboratory. Forms and log sheets document every activity in the air monitoring stations and document all maintenance, calibration, operation and other activities such as all visits to the stations. This monthly report provides an overview and analysis of air quality monitoring data in Bangladesh for the month wise monitoring results.

The report summarizes the data of different CAMS located in different cities of Bangladesh.

Standards of Ambient Air Quality

The Government of Bangladesh has enacted Air Pollution (Control) Rules – 2022 with ambient air quality standards. This report establishes the Air Quality Index (AQI) followed by USEPA guideline to evaluate air pollution.

Table 1: National Ambient Air Quality Standards (NAAQS) for Bangladesh

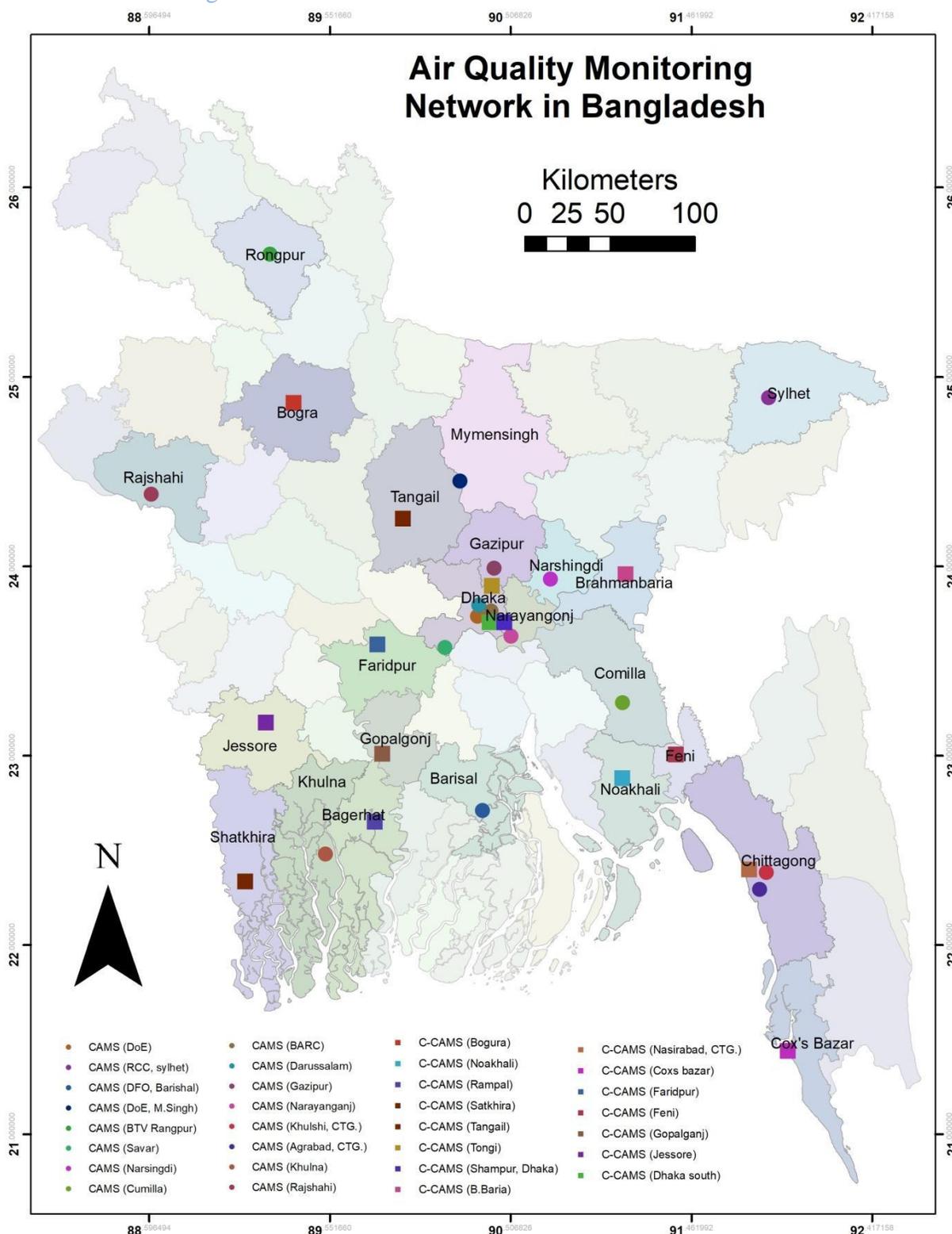
Pollutant	Limit Value	Averaging time
CO	5 mg/m ³	8 hours ^a
	20 mg/m ³	1 hour ^a
Pb	0.25 µg/m ³	Annual
	0.50 µg/m ³	24 hours
NO ₂	40 µg/m ³	Annual
	80 µg/m ³	24 hours
PM ₁₀	50 µg/m ³	Annual ^b
	150 µg/m ³	24 hours ^c
PM _{2.5}	35 µg/m ³	Annual
	65 µg/m ³	24 hours
O ₃	180 µg/m ³	1 hour ^d
	100 µg/m ³	8 hours
SO ₂	250 µg/m ³	1 hour
	80 µg/m ³	24 hours ^a

Table 2: Air quality index (AQI) in Bangladesh

Air quality index (AQI)	Category		Colour
	In English	In Bangla	
0-50	Good	ভাল	Green
51-100	Moderate	মধ্যম	Yellow Green
101-150	Unhealthy for Sensitive Group	সংবেদনশীল শ্রেণীর জন্য অস্বাস্থ্যকর	Yellow
151-200	Unhealthy	অস্বাস্থ্যকর	Orange
201-300	Very Unhealthy	খুব অস্বাস্থ্যকর	Red
301-500	Hazardous	ঝুঁকিপূর্ণ	Purple

Location Map of Air Monitoring Stations

Figure 1: Locations Map of Continuous Air Monitoring Stations (CAMS) under Department of Environment in Bangladesh.



Station Information

Table 3: Overview of the locations and capacity of the CAMS

City	ID	Location	Latitude/ Longitude	Monitoring Capacity	Year of Est.	Type	Inlet & Met tower Height(m)
Dhaka	CAMS-1	Dept of Environment	23° .77'73.94"N 90° .37'26.03"E	PM ₁₀ , PM _{2.5} , SO ₂ , CO, O ₃ & NO _x with Meteorological Parameters	2012	UB/Res	4.8 & 8
	CAMS-2	Farmgate	23° .75'94.10"N 90° .38'86.79"E		2008	Rd/Com	8.8 & 11
	CAMS-3	Darussalam	23° .78'07.75"N 90° .35'54.10"E		2012	UB/Com	8.8 & 11
Gazipur	CAMS-4	Gazipur	23° .99'41.28"N 90° .42'23.15"E		2012	SUB	8.8 & 11
Narayanganj	CAMS-5	Narayanganj	23° .62'60.79"N 90° .50'72.00"E		2012	UB Industry	8.8 & 11
Chattogram	CAMS-6	TV Station, Khulshi	22° .36'04.87"N 91° .80'04.54"E		2006	UB1	4.8 & 7
	CAMS-7	Agrabad	22° .32'30.20"N 91° .80'23.36"E		2012	UB/Res	8.8 & 11
Khulna	CAMS-8	Boyra	22° .83'57.75"N 89° .52'90.56"E		2008	UB	6.8 & 10
Rajshahi	CAMS-9	Sapura	24° .38'33.20"N 88° .60'80.07"E		2008	Rd/Res	6.8 & 10
Sylhet	CAMS-10	Red Crecent Campus	24° .88'83.34"N 91° .86'73.47"E		2012	Rd/UB/Res	13.8 & 15
Barishal	CAMS-11	DFO Office Campus	22° .71'02.87"N 90° .36'25.98"E		2012	UB/Res	6.8 & 10
Mymensingh	CAMS-12	DoE Office, Divisional Headquarter	24° .76'24.58"N 90° .40'21.02"E		2019	UB	8.8 & 11
Rangpur	CAMS-13	BTV Rangpur Station	25° .74'73.71"N 89° .22'89.31"E		2019	UB	8.8 & 11
Savar	CAMS-14	Atomic Energy Research Institute	23° .95'37.04"N 90° .27'97.94"E		2019	SUB	10.8 & 14
Narsingdi	CAMS-15	Sadar Upazila Complex	23° .93'24.56"N 90° .71'65.98"E		2019	SUB	8.8 & 11
Cumilla	CAMS-16	Court Area	23° .47'29.88"N 91° .18'06.71"E		2019	UB	8.8 & 11

UB: Urban; Rd: Road; Res: residential; Com: Commercial; SUB: Suburban; Rural: Rural

Table 4: Overview of the locations and capacity of the C-CAMS

City	ID	Location	Lat/Lon	Year of Est.	Type	Monitoring Capacity	Inlet & Met tower Height(m)
Faridpur	C-CAMS-17	Sadar, Faridpur (Municipal Office)	23°.60'64.11"N 89°.83'88.19"E	2020	SUB	PM ₁₀ , PM _{2.5} , SO ₂ , CO, O ₃ & NO _x with Meteorologic al Parameters	9 & 11
Jashore	C-CAMS-18	Sadar, Jashore (circuit house)	23°.16'22.16"N 89°.20'63.70"E		SUB		12 & 14
Satkhira	C-CAMS-19	Shyamnagar, Satkhira	22°.31'59.96"N 89°.04'31.70"E		Rural		5.2 & 7.2
Bagerhat	C-CAMS-20	Rampal, Bagerhat (Maytree Super Thermal Power Project)	22°.59'60.86"N 89°.55'37.20"E		Rural/ Industrial		5.7 & 7.7
Gopalganj	C-CAMS-21	Sadar, Gopalganj	23°.00'88.53"N 89°.82'91.60"E		SUB		22 & 24
Tangail	C-CAMS-22	Sadar, Tangail (DoE office)	24°.24'97.96"N 89°.92'93.57"E		SUB		15 & 17
Bogura	C-CAMS-23	Sadar, Bogura (DoE Office)	24°.86'17.79"N 89°.36'11.46"E		SUB		9 & 11
Tongi	C-CAMS-24	BSCIC, Tongi, Gazipur	23°.89'41.74"N 90°.41'12.10"E		Com/ Industrial		18 & 20
BUET	C-CAMS-25	Department of Chemical Engineering, BUET, Dhaka	23°.72'75.91"N 90°.39'27.97"E		UB		10 & 12
Brahmanbaria	C-CAMS-26	Sadar, B.Baria (municipal Office)	23°.97'43.71"N 91°.10'97.69"E		SUB		18 & 20
Feni	C-CAMS-27	Sadar, Feni (DoE Office)	23°.00'62.97"N 91°.38'13.05"E		SUB		18 & 20
Noakhali	C-CAMS-28	Maijdi Bazar, Noakhali (DoE Office)	22°.88'11.48"N 91°.09'69.66"E		SUB		15 & 17
Chattogram BSRM	C-CAMS-29	BSRM, Nasirabad, Chattogram	22°.37'28.38"N 91°.81'80.54"E		UB/Indus trial		12 & 14
Cox's-Bazar	C-CAMS-30	Saymon Road, Sadar, Cox's-Bazar (DoE Office)	21°.44'22.08"N 91°.97'10.83"E		SUB		9 & 11
Nagor Bhaban, Dhaka	C-CAMS-31	Nagar Bhaban, DSCC, Dhaka	23°.72'40.75"N 90°.40'91.42"E		UB/Com		13 & 15

UB: Urban; Rd: Road; Res: residential; Com: Commercial; SUB: Suburban; Rural: Rural

Table 5: Summary of components August, 2025

Parameter	Summary	DoE	BARC	Darus-sala	Gazipur	Narayangan	TV-Station	Agrabad, C	Sylhet	Khulna	Rajshahi	Barisal	Savar	Mymensingh	Rangpur	Cumilla	Narshingdi	
SO ₂ -24 hr (ppb)	Average	5.3	5.6	DNA	6.2	DNA	1.1	6.1	1.3	6.0	4.6	3.8	2.3	2.5	0.6	4.4	4.6	
	Max	10.0	20.0	DNA	7.3	DNA	4.1	8.1	3.7	14.1	7.7	4.4	23.8	20.4	1.3	18.8	18.8	
	Min	1.6	0.5	DNA	5.3	DNA	0.9	4.5	1.0	0.1	2.4	3.5	0.4	0.6	0.2	0.4	1.8	
	Excedance(Days)	0.0	0.0	DNA	0.0	DNA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Data capture(%)	96.8	83.9	DNA	87.1	DNA	100.0	93.5	100.0	80.6	100.0	100.0	96.8	100.0	100.0	48.4	100.0	
NO ₂ -24 hr (ppb)	Average	6.2	25.81	2.0	DNA	DNA	2.7	DNA	DNA	2.0	3.1	DNA	13.7	DNA	3.0	DNA	DNA	
	Max	16.5	36.24	3.7	DNA	DNA	4.0	DNA	DNA	2.6	3.3	DNA	24.6	DNA	10.7	DNA	DNA	
	Min	1.8	7.38	0.6	DNA	DNA	1.8	DNA	DNA	1.5	2.8	DNA	8.9	DNA	1.4	DNA	DNA	
	Excedance(Days)	0.0	0.00	0.0	DNA	DNA	0.0	DNA	DNA	0.0	0.0	DNA	0.0	DNA	0.0	DNA	DNA	
	Data capture(%)	100.0	100.00	100.0	DNA	DNA	100.0	DNA	DNA	100.0	100.0	DNA	96.8	DNA	100.0	DNA	DNA	
CO-8hr (ppm)	Average	0.4	0.4	DNA	DNA	DNA	4.0	DNA	1.3	0.8	5.7	DNA	0.8	0.7	0.7	0.9	1.7	
	Max	2.1	2.1	DNA	DNA	DNA	9.7	DNA	1.9	1.3	12.4	DNA	7.5	2.9	35.1	4.2	3.5	
	Min	0.1	0.1	DNA	DNA	DNA	0.6	DNA	0.9	0.1	2.4	DNA	0.3	0.6	0.1	0.0	0.0	
	Excedance(Hour)	0.0	0.0	DNA	DNA	DNA	310.0	DNA	0.0	0.0	501.0	DNA	3.0	0.0	7.0	1.0	0.0	
	Data capture(%)	98.8	87.8	DNA	DNA	DNA	98.9	DNA	30.8	98.7	96.8	DNA	95.4	99.1	100.0	96.4	80.6	
O ₃ -8hr (ppb)	Average	12.1	16.8	DNA	DNA	DNA	2.9	DNA	0.5	7.3	5.3	DNA	36.7	25.6	35.1	5.0	5.0	
	Max	30.2	79.8	DNA	DNA	DNA	5.5	DNA	0.7	55.7	30.7	DNA	137.7	44.5	67.1	126.7	20.5	
	Min	3.5	3.0	DNA	DNA	DNA	0.3	DNA	0.2	4.7	1.0	DNA	4.4	0.3	11.7	0.1	0.2	
	Excedance(Hour)	0.0	13.0	DNA	DNA	DNA	0.0	DNA	0.0	6.0	0.0	DNA	104.0	0.0	7.0	8.0	0.0	
	Data capture(%)	100.0	96.4	DNA	DNA	DNA	99.1	DNA	82.9	99.1	99.1	DNA	83.3	99.1	97.2	83.3	57.9	
PM _{2.5} -24hr (ug/m3)	Average	49.4	38.2	58.3	37.6	DNA	19.2	DNA	28.0	18.4	81.1	7.4	25.5	35.7	39.5	15.4	28.9	
	Max	208.2	57.3	324.5	85.7	DNA	38.8	DNA	84.5	55.9	540.9	32.8	40.4	74.9	93.9	33.8	44.1	
	Min	22.9	27.0	23.2	10.4	DNA	7.0	DNA	6.0	6.8	8.5	4.4	12.8	16.3	15.3	7.3	16.4	
	Excedance(Days)	3.0	0.0	1.0	3.0	DNA	0.0	DNA	1.0	0.0	6.0	0.0	0.0	1.0	1.0	0.0	0.0	
	Data capture(%)	100.0	100.0	41.9	38.7	DNA	100.0	DNA	100.0	100.0	90.3	93.5	96.8	100.0	100.0	100.0	100.0	
PM ₁₀ -24hr (ug/m3)	Average	56.3	54.9	69.6	48.0	DNA	29.3	DNA	61.3	28.4	48.5	DNA	51.5	90.2	43.3	33.6	32.7	
	Max	89.1	151.0	93.2	95.0	DNA	64.4	DNA	166.0	94.3	89.9	DNA	80.0	134.2	89.6	75.4	56.2	
	Min	32.4	31.7	51.8	14.7	DNA	12.8	DNA	17.2	11.4	12.0	DNA	27.0	46.5	22.7	12.4	19.6	
	Excedance(Days)	0.0	1.0	0.0	0.0	DNA	0.0	DNA	1.0	0.0	0.0	DNA	0.0	0.0	0.0	0.0	0.0	
	Data capture(%)	100.0	77.4	41.9	67.7	DNA	100.0	DNA	83.9	100.0	100.0	DNA	96.8	61.3	100.0	96.8	100.0	
Solar rad. 1hr (W/m2)	Average	160.13	140.83	133.8	DNA	DNA	770.7	DNA	4.13	704.0	110.0	86.6	214.9	121.9	258.3	161.5	206.9	
	Max	584.50	783.8	1009.1	DNA	DNA	797.3	DNA	4.43	2099.0	887.8	763.3	980.4	912.7	996.1	853.7	1030.3	
	Min	1.20	0.1	984.7	DNA	DNA	97.8	DNA	3.47	86.7	0.0	6.2	0.0	0.0	0.1	0.0	0.0	
	Data capture(%)	47.45	93	99	DNA	DNA	98	DNA	92.07	100	90	99	59.8	56.5	63.6	98.4	82.1	
Relative Humidity 1hr (%)	Average	75.69	68.1	80.6	DNA	DNA	44.4	DNA	39.70	85.4	96.5	59.9	84.2	98.4	90.9	93.4	48.0	
	Max	91.49	78.0	94.0	DNA	DNA	45.1	DNA	39.87	99.4	97.0	67.5	99.6	99.5	99.8	100.0	77.2	
	Min	43.76	32.3	54.3	DNA	DNA	35.0	DNA	39.61	75.9	88.1	49.7	18.4	24.8	59.7	61.2	18.7	
	Data capture(%)	97.72	96.4	99.5	DNA	DNA	99	DNA	92.07	99	98	99	82.9	62.9	99.3	32.5	98.8	
Ambient Temp. 1hr (degreeC)	Average	28.09	29.6	25.6	DNA	DNA	23.5	DNA	DNA	29.8	30.9	DNA	27.4	27.0	27.9	27.5	27.7	
	Max	37.88	36.3	42.9	DNA	DNA	26.2	DNA	DNA	35.6	36.4	DNA	32.6	32.6	34.0	34.3	32.8	
	Min	7.01	24.7	20.3	DNA	DNA	20.9	DNA	DNA	25.4	26.3	DNA	20.8	23.1	24.4	23.9	23.5	
	Data capture(%)	79.44	96.4	25	DNA	DNA	89	DNA	DNA	100	98	DNA	81.9	62.6	89.7	99.5	98.0	
Rainfall 1hr (mm)	Average	DNA	0.38	DNA	DNA	DNA	DNA	DNA	DNA	0.26	0.19	0.4	0.32	0.22	0.45	0.06	0.33	
	Max	DNA	86.60	DNA	DNA	DNA	DNA	DNA	DNA	14.80	18.60	0.8	68.40	37.75	24.60	2.90	15.68	
	Min	DNA	0.00	DNA	DNA	DNA	DNA	DNA	DNA	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	
	Data capture(%)	DNA	100.00	DNA	DNA	DNA	DNA	DNA	DNA	100.00	100.00	95	100.00	100.00	100.00	100.00	49.46	

CAMs= Continuous Air Monitoring Station, NAAQS=National Ambient Air Quality Standard, a=Refurbishment CAMs, PM= Particulate Matter

DNA= Data Not Available

Table 6: Air Quality Index (AQI) August, 2025

Date	Dhaka	Chattogram	Gazipur	Narayangonj	Sylhet	Khulna	Rajshahi	Barishal	Savar	Mymensingh	Rangpur	Cumilla	Norshingdi
01-08-25	133	25	117	DNA	41	89	95	DNA	78	87	110	33	79
02-08-25	145	125	68	DNA	76	150	112	DNA	85	108	117	37	82
03-08-25	128	95	52	DNA	63	85	94	DNA	97	91	107	39	89
04-08-25	128	90	58	DNA	60	88	120	DNA	78	87	100	48	104
05-08-25	140	81	52	DNA	49	104	85	DNA	79	72	110	57	100
06-08-25	137	104	57	DNA	114	134	115	DNA	106	151	100	92	108
07-08-25	145	90	88	DNA	62	104	120	DNA	114	152	130	75	122
08-08-25	140	51	93	DNA	54	87	103	DNA	104	108	136	66	110
09-08-25	119	55	84	DNA	68	49	124	DNA	102	93	151	61	81
10-08-25	88	46	61	DNA	46	43	97	DNA	58	103	151	54	76
11-08-25	97	50	48	DNA	44	46	109	DNA	60	119	150	58	95
12-08-25	98	61	48	DNA	56	46	153	DNA	58	108	170	73	109
13-08-25	93	68	56	DNA	51	46	81	DNA	DNA	81	125	60	82
14-08-25	130	121	DNA	DNA	44	51	97	DNA	62	78	95	48	78
15-08-25	130	128	DNA	DNA	53	39	80	DNA	96	104	108	32	83
16-08-25	126	76	DNA	DNA	62	45	148	DNA	86	105	120	53	89
17-08-25	124	86	118	DNA	66	46	68	DNA	101	152	128	80	92
18-08-25	100	35	56	DNA	54	34	58	DNA	69	80	81	54	79
19-08-25	104	26	58	DNA	51	28	34	DNA	65	79	73	98	66
20-08-25	105	35	43	DNA	37	38	120	DNA	61	81	76	54	72
21-08-25	100	46	56	DNA	39	28	50	DNA	61	78	82	33	71
22-08-25	93	45	36	DNA	24	42	27	DNA	58	59	68	49	59
23-08-25	75	68	52	DNA	DNA	39	33	DNA	58	65	57	36	62
24-08-25	98	53	26	DNA	64	29	56	DNA	66	95	66	40	65
25-08-25	105	67	43	DNA	51	50	37	DNA	75	115	94	61	85
26-08-25	125	48	53	DNA	72	61	48	DNA	96	151	141	65	94
27-08-25	89	27	71	DNA	52	24	67	DNA	67	94	127	55	80
28-08-25	76	56	90	DNA	48	51	61	DNA	74	92	95	52	71
29-08-25	87	21	34	DNA	51	32	27	DNA	67	69	DNA	61	82
30-08-25	101	48	44	31	61	DNA	39	DNA	96	121	DNA	56	85
31-08-25	154	59	63	DNA	118	59	54	DNA	111	126	95	74	102

Figure 2: Graphical representation of Gaseous and Particulate matter.

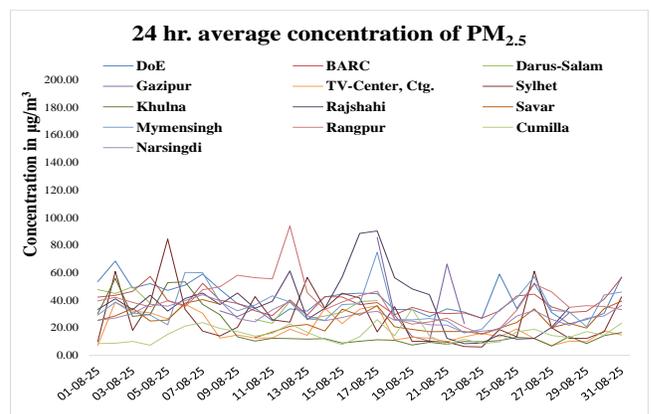
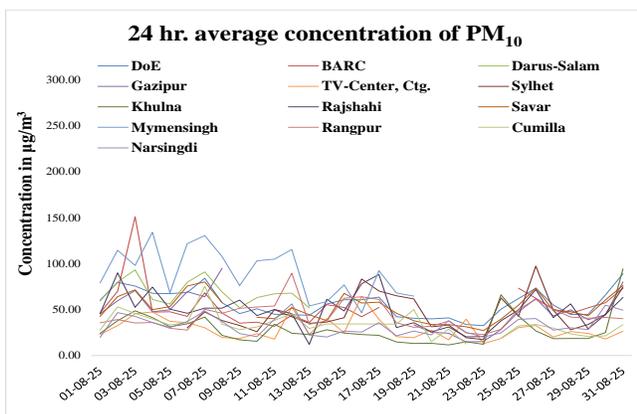
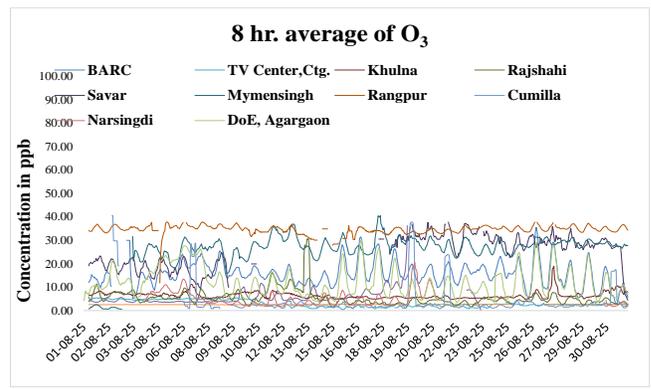
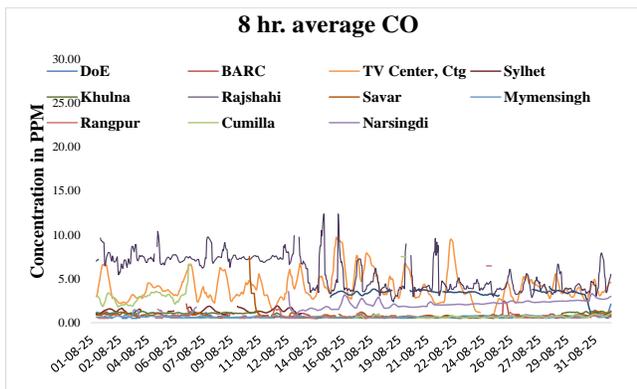
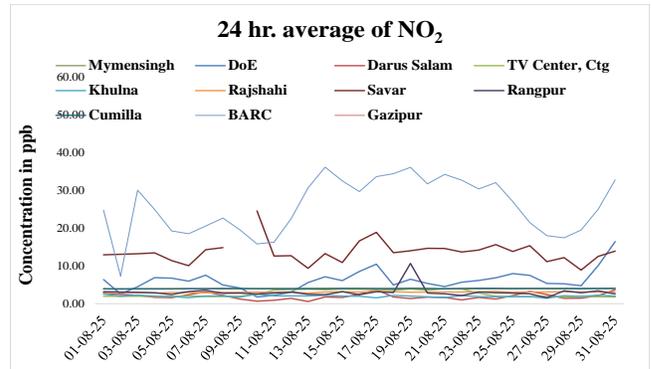
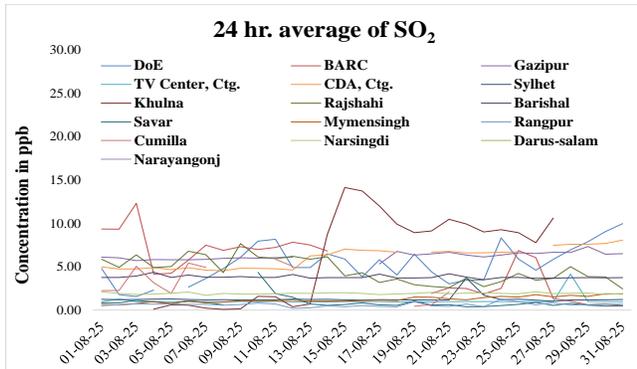
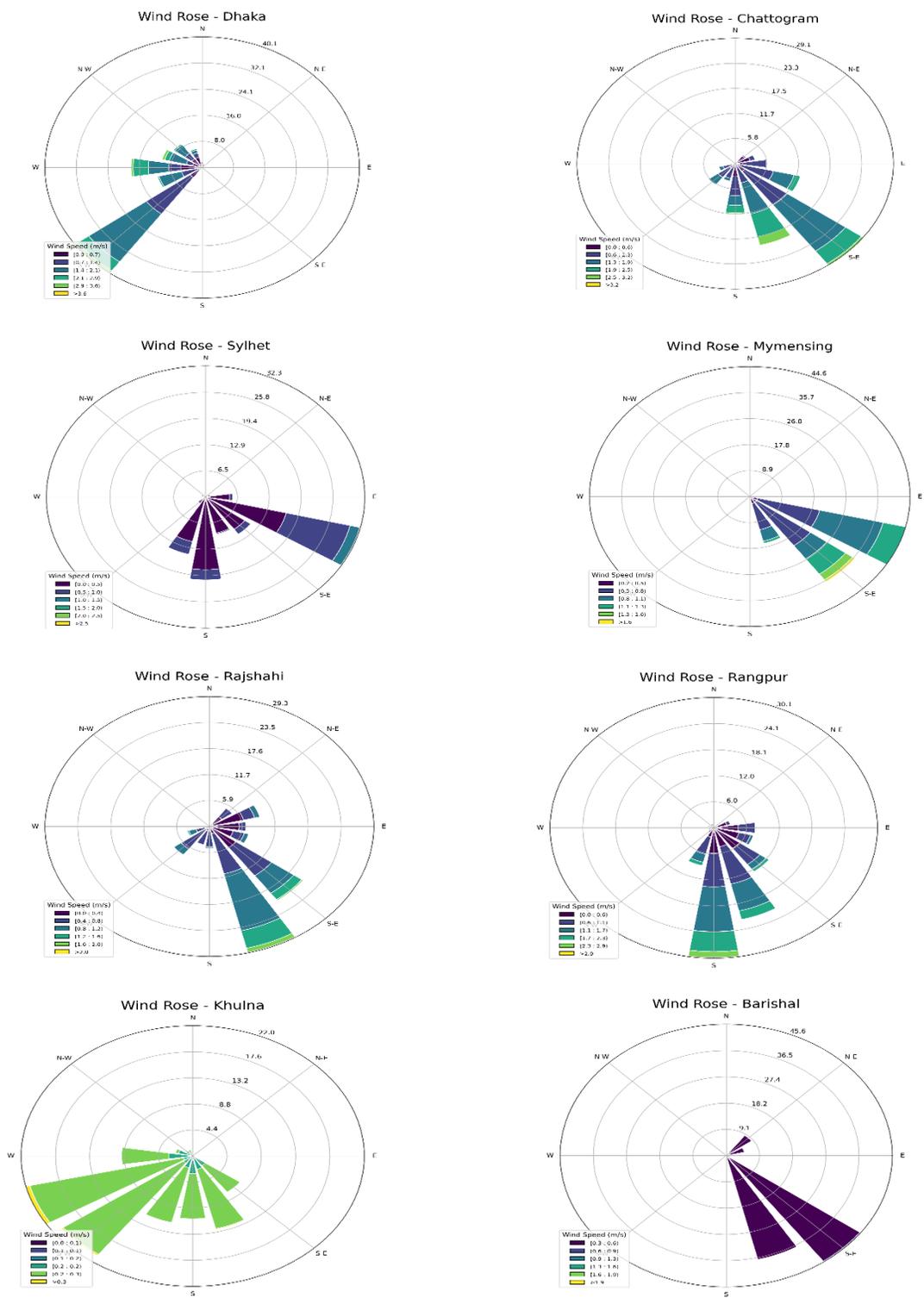


Figure 3: Wind Rose Pattern of Different Divisional Cities of Bangladesh in the Month of August_2025.



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