



# Air Quality Monthly Report

July, 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<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, CO, NO<sub>x</sub> and O<sub>3</sub>) 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

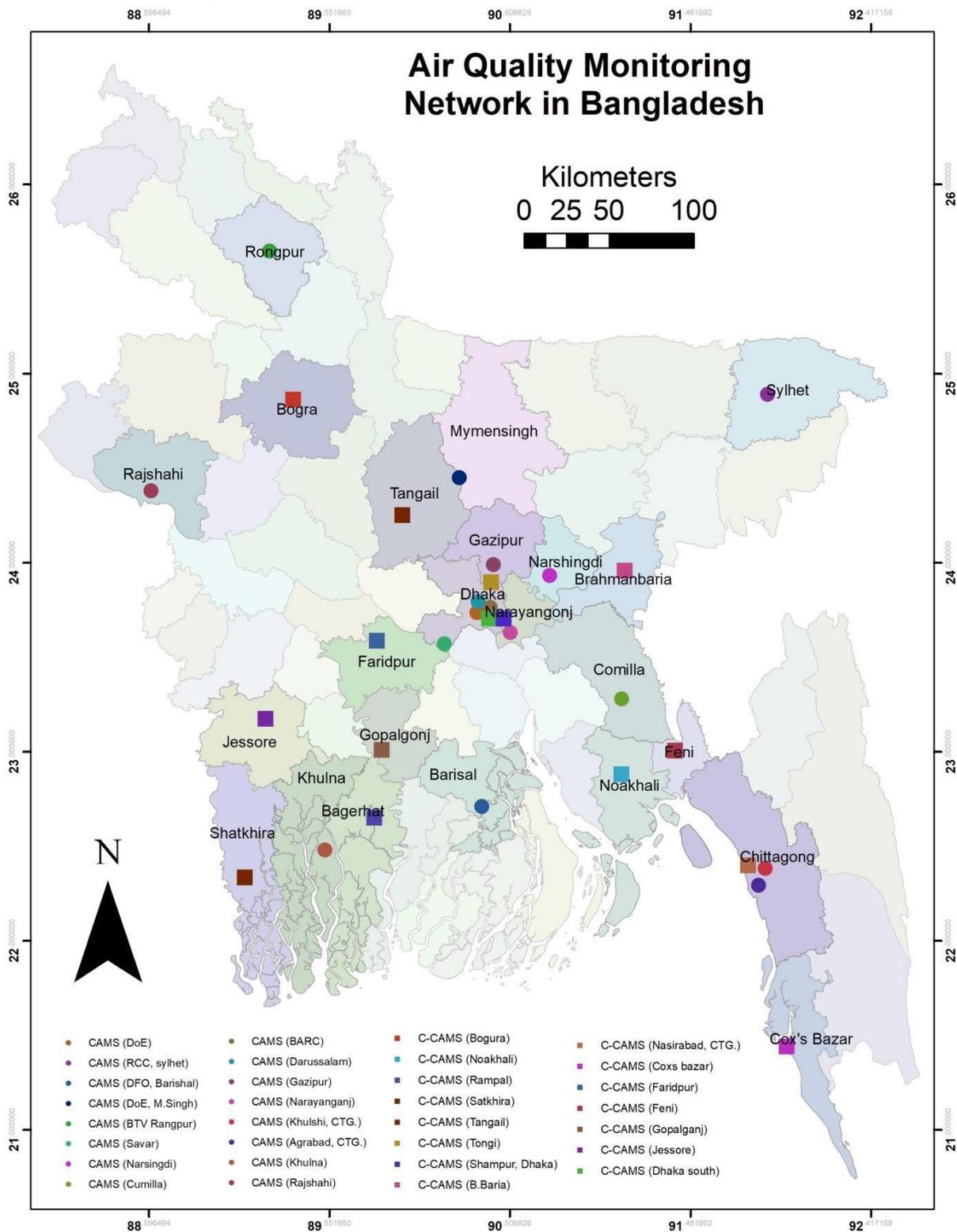
Pollutant	Limit Value	Averaging time
CO	5 mg/m <sup>3</sup>	8 hours <sup>a</sup>
	20 mg/m <sup>3</sup>	1 hour <sup>a</sup>
Pb	0.25 µg/m <sup>3</sup>	Annual
	0.50 µg/m <sup>3</sup>	24 hours
NO <sub>2</sub>	40 µg/m <sup>3</sup>	Annual
	80 µg/m <sup>3</sup>	24 hours
PM <sub>10</sub>	50 µg/m <sup>3</sup>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

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	Caution	সাবধানতা/সতর্কীকরণ	Yellow
151-200	Unhealthy	অস্বাস্থ্যকর	Orange
201-300	Very Unhealthy	খুব অস্বাস্থ্যকর	Red
301-500	Extremely Unhealthy/Hazardous	অত্যন্ত অস্বাস্থ্যকর	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 <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , CO, O <sub>3</sub> & NO <sub>x</sub> 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 <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , CO, O <sub>3</sub> & NOx 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	Nagor 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 July, 2025**

Parameter	Summary	DoE	BARC	Darus-salam, Dhaka	Gazipur	Narayanganj	TV-Station, Chattagram	Agrabad, Chattagram	Sylhet	Khulna	Rajshahi	Barisal	Savar	Mymensingh	Rangpur	Cumilla	Narshingdi	
SO <sub>2</sub> -24 hr (ppb)	Average	3.3	DNA	5.2	6.1	DNA	8.3	DNA	DNA	6.7	5.6	4.1	1.7	0.7	1.2	2.9	2.3	
	Max	8.6	DNA	5.3	6.7	DNA	12.7	DNA	DNA	18.5	10.1	6.8	4.4	1.2	2.5	4.1	4.8	
	Min	0.1	DNA	5.0	5.7	DNA	0.9	DNA	DNA	0.2	1.3	3.6	0.5	0.5	0.3	0.6	1.7	
	Excedance(Days)	0.0	DNA	0.0	0.0	DNA	0.0	DNA	DNA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Data capture(%)	93.5	DNA	58.1	100.0	DNA	54.8	DNA	DNA	90.3	90.3	100.0	100.0	100.0	93.5	100.0	100.0	
NO <sub>2</sub> -24 hr (ppb)	Average	13.6	28.4	2.7	DNA	DNA	2.0	DNA	DNA	1.9	3.0	DNA	12.6	DNA	2.9	4.0	1.9	
	Max	23.5	38.0	4.6	DNA	DNA	2.2	DNA	DNA	2.4	3.4	DNA	15.3	DNA	3.8	4.1	2.5	
	Min	4.7	14.1	1.3	DNA	DNA	1.6	DNA	DNA	1.3	2.7	DNA	9.8	DNA	2.2	3.9	1.2	
	Excedance(Days)	0.0	0.0	0.0	DNA	DNA	0.0	DNA	DNA	0.0	0.0	DNA	0.0	DNA	0.0	0.0	0.0	
	Data capture(%)	100.0	100.0	100.0	DNA	DNA	100.0	DNA	DNA	100.0	90.3	DNA	100.0	DNA	93.5	100.0	100.0	
CO-8hr (ppm)	Average	0.5	2.4	DNA	DNA	DNA	3.7	DNA	1.4	1.0	5.7	DNA	0.8	0.7	0.3	2.6	1.0	
	Max	2.2	5.2	DNA	DNA	DNA	7.7	DNA	2.4	1.5	8.4	DNA	7.5	2.8	5.1	6.3	1.4	
	Min	0.1	0.3	DNA	DNA	DNA	0.5	DNA	0.8	0.7	1.1	DNA	0.2	0.6	0.0	0.3	0.6	
	Excedance(Hour)	0.0	46.0	DNA	DNA	DNA	233.0	DNA	0.0	0.0	268.0	DNA	8.0	0.0	2.0	37.0	0.0	
	Data capture(%)	97.8	98.7	DNA	DNA	DNA	93.1	DNA	75.0	99.1	50.1	DNA	98.8	99.1	92.5	58.6	99.1	
O <sub>3</sub> -8hr (ppb)	Average	8.1	12.1	DNA	DNA	DNA	4.3	DNA	DNA	8.4	6.4	DNA	19.0	2.9	10.1	18.8	8.4	
	Max	39.4	55.6	DNA	DNA	DNA	6.4	DNA	DNA	40.3	17.9	DNA	38.3	24.6	39.4	38.2	40.2	
	Min	2.2	1.7	DNA	DNA	DNA	2.6	DNA	DNA	4.8	1.1	DNA	3.9	0.0	1.7	4.0	4.8	
	Excedance(Hour)	0.0	3.0	DNA	DNA	DNA	0.0	DNA	DNA	0.0	0.0	DNA	0.0	0.0	0.0	0.0	0.0	
	Data capture(%)	100.0	99.1	DNA	DNA	DNA	99.1	DNA	DNA	99.1	86.7	DNA	98.7	99.1	91.5	98.8	99.1	
PM <sub>2.5</sub> -24hr (ug/m3)	Average	46.9	40.3	40.3	29.8	DNA	20.3	DNA	14.3	13.3	31.9	6.0	29.0	33.4	39.6	12.3	26.2	
	Max	88.6	60.6	101.4	75.5	DNA	42.4	DNA	39.7	39.0	57.5	8.2	63.7	61.4	83.5	24.4	61.9	
	Min	24.1	24.8	11.9	6.6	DNA	7.2	DNA	7.7	5.3	8.7	4.5	11.2	14.3	14.4	5.6	10.0	
	Excedance(Days)	6.0	0.0	2.0	2.0	DNA	0.0	DNA	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	
	Data capture(%)	100.0	100.0	100.0	100.0	DNA	100.0	DNA	87.1	100.0	90.3	80.6	93.5	100.0	80.6	100.0	100.0	
PM <sub>10</sub> -24hr (ug/m3)	Average	64.6	72.7	64.5	41.1	DNA	31.6	DNA	70.0	34.6	35.2	DNA	62.0	86.6	53.7	47.9	36.3	
	Max	125.1	128.3	163.1	108.6	DNA	51.7	DNA	199.7	69.5	74.3	DNA	125.6	188.1	86.3	142.9	99.0	
	Min	33.5	34.7	30.5	12.6	DNA	13.8	DNA	19.3	11.8	10.8	DNA	24.3	25.8	24.4	11.8	14.2	
	Excedance(Days)	0.0	0.0	1.0	0.0	DNA	0.0	DNA	1.0	0.0	0.0	DNA	0.0	3.0	0.0	0.0	0.0	
	Data capture(%)	100.0	100.0	100.0	100.0	DNA	100.0	DNA	80.6	96.8	90.3	DNA	77.4	100.0	74.2	100.0	96.8	
Solar rad. 1hr (W/m2)	Average	134.53	119.38	123.7	DNA	DNA	779.5	DNA	DNA	490.2	87.2	78.3	154.5	175.9	305.5	176.1	169.7	
	Max	637.00	868.6	1002.5	DNA	DNA	797.3	DNA	DNA	1198.6	945.0	757.9	965.0	989.9	969.3	880.4	1029.4	
	Min	0.40	0.1	980.1	DNA	DNA	146.7	DNA	DNA	49.5	0.0	6.0	0.0	0.0	0.1	0.0	0.0	
	Data capture(%)	48.92	98	90	DNA	DNA	99	DNA	DNA	90	78	99	65.5	43.0	57.8	87.2	82.4	
	Relative Humidity 1hr (%)	Average	79.06	73.1	82.2	DNA	DNA	44.6	DNA	DNA	84.5	96.2	67.3	88.2	97.3	86.5	96.1	42.4
	Max	91.84	78.0	94.3	DNA	DNA	45.0	DNA	DNA	95.4	96.5	76.9	99.6	99.5	99.7	100.0	65.4	
	Min	47.82	17.3	53.7	DNA	DNA	37.4	DNA	DNA	77.9	85.2	49.1	49.7	60.2	47.9	74.5	15.7	
	Data capture(%)	98.79	97.0	100.0	DNA	DNA	99	DNA	DNA	99	83	99	83.2	50.4	87.1	33.5	98.4	
Ambient Temp. 1hr (degreeC)	Average	29.22	29.0	13.1	DNA	DNA	21.7	DNA	DNA	29.7	31.0	DNA	27.3	27.4	28.4	27.5	27.4	
	Max	39.26	36.8	36.2	DNA	DNA	24.0	DNA	DNA	36.4	38.7	DNA	35.0	35.0	36.3	34.4	34.1	
	Min	23.12	23.5	7.0	DNA	DNA	17.6	DNA	DNA	26.3	8.2	DNA	23.7	19.8	9.8	23.9	15.0	
	Data capture(%)	98.79	100.0	10	DNA	DNA	92	DNA	DNA	100	83	DNA	80.5	50.4	82.9	98.7	95.6	
Rainfall 1hr (mm)	Average	DNA	0.55	0.80	DNA	DNA	0.00	DNA	DNA	0.62	0.24	0.17	1.06	0.32	0.28	0.15	0.23	
	Max	DNA	21.00	0.80	DNA	DNA	0.00	DNA	DNA	23.60	11.60	0.90	75.30	40.45	41.10	10.30	8.18	
	Min	DNA	0.00	0.80	DNA	DNA	0.00	DNA	DNA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Data capture(%)	DNA	99.87	100.00	DNA	DNA	0.94	DNA	DNA	100.00	100.00	97.31	100.00	99.87	99.87	100.00	100.00	

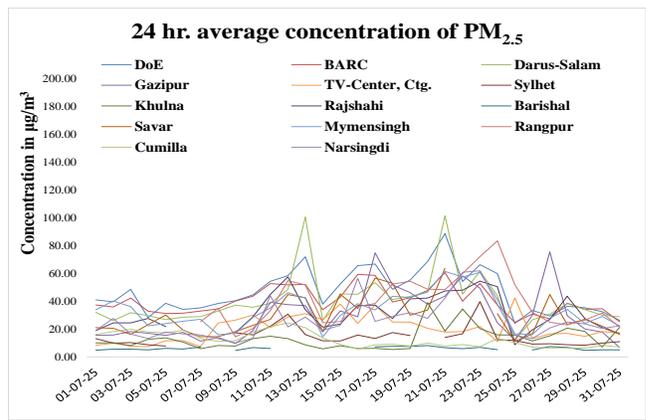
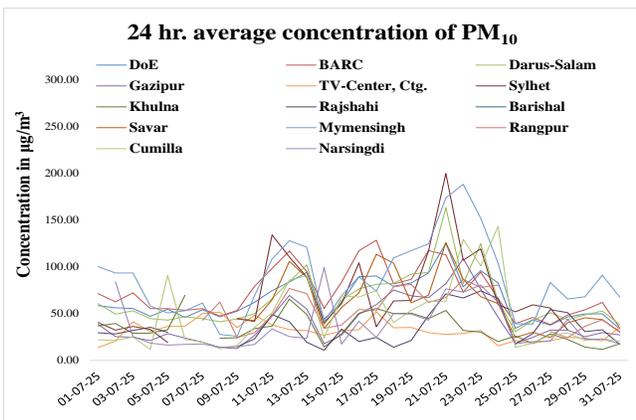
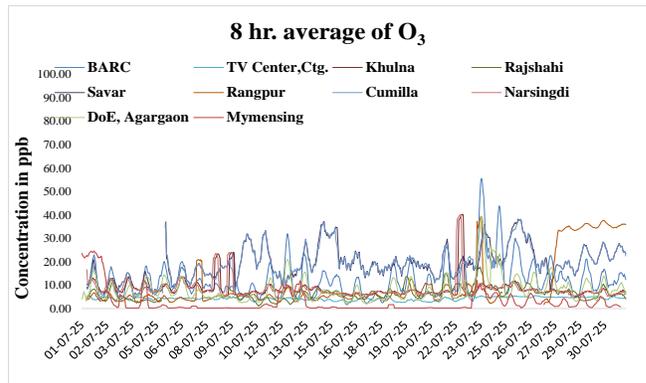
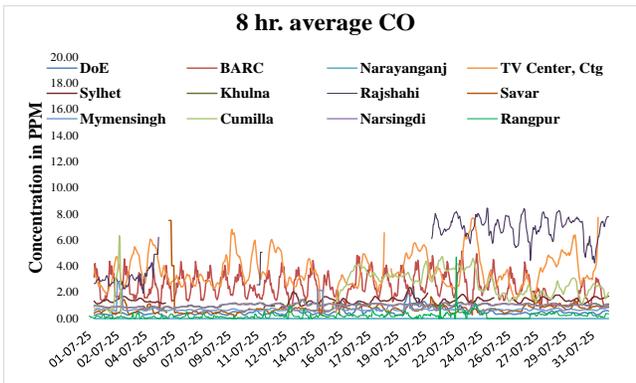
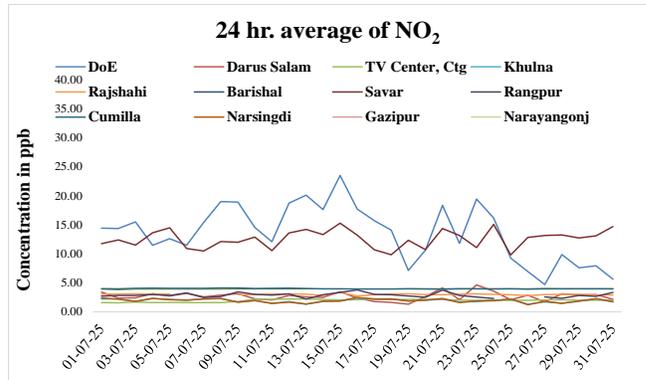
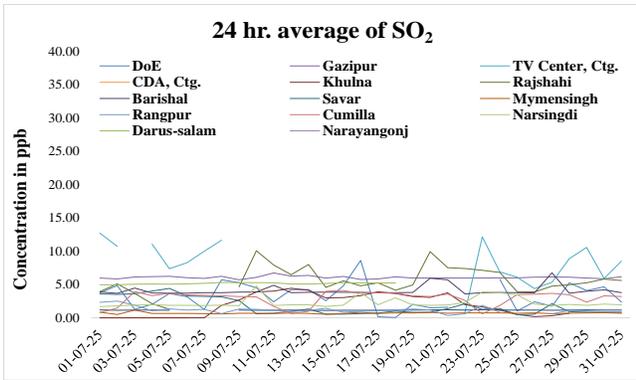
CAMS= Continuous Air Monitoring Station, NAAQS=National Ambient Air Quality Standard, a=Refurbishment CAMS, PM= Particulate Matter

DNA= Data Not Available

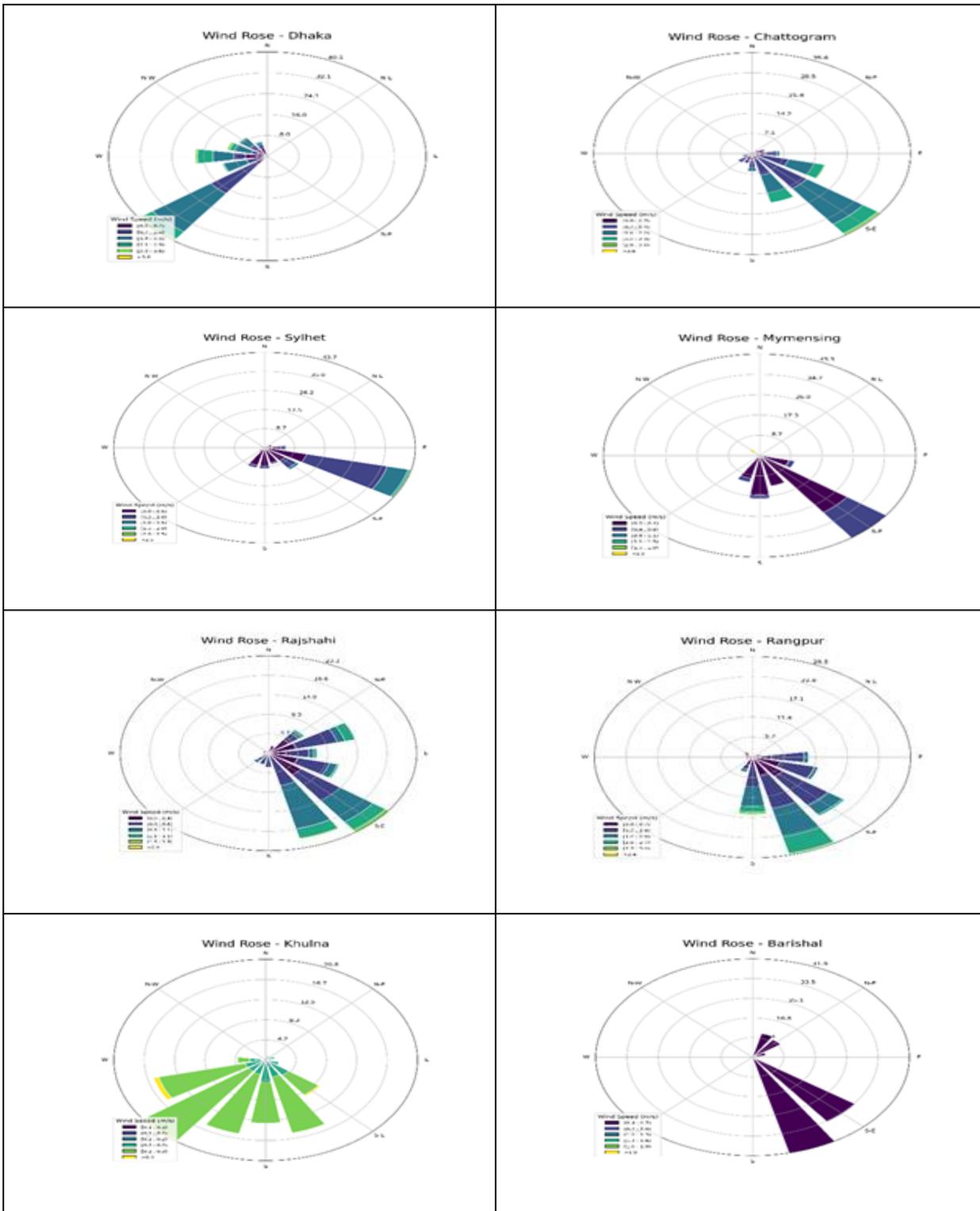
Table 6: Air Quality Index (AQI) July, 2025

Date	Dhaka	Chattogram	Gazipur	Narayanganj	Sylhet	Khulna	Rajshahi	Barishal	Savar	Mymensingh	Rangpur	Cumilla	Norshingdi
01-07-25	115	34	58	DNA	52	41	65	DNA	DNA	DNA	DNA	59	65
02-07-25	107	49	65	DNA	DNA	51	155	DNA	DNA	94	107	53	55
03-07-25	120	43	63	DNA	42	28	74	DNA	DNA	102	DNA	67	59
04-07-25	99	28	60	DNA	24	51	87	DNA	74	72	DNA	63	52
05-07-25	115	41	57	DNA	32	53	74	DNA	DNA	75	DNA	61	62
06-07-25	105	49	62	DNA	DNA	44	DNA	DNA	64	79	DNA	65	60
07-07-25	108	34	47	DNA	DNA	24	DNA	DNA	55	82	71	53	58
08-07-25	110	66	54	DNA	DNA	58	89	DNA	55	58	99	45	52
09-07-25	120	DNA	38	DNA	61	32	61	DNA	57	58	52	44	42
10-07-25	124	89	65	DNA	58	52	84	DNA	73	85	68	62	53
11-07-25	133	67	88	DNA	71	DNA	95	DNA	82	99	95	70	116
12-07-25	142	76	93	DNA	61	0	151	DNA	DNA	127	148	76	71
13-07-25	140	135	94	DNA	61	25	97	DNA	118	117	140	69	85
14-07-25	124	61	63	DNA	61	39	64	DNA	64	51	77	56	65
15-07-25	144	96	62	DNA	61	15	74	DNA	85	88	78	25	73
16-07-25	152	85	86	DNA	56	23	105	DNA	102	107	102	56	85
17-07-25	152	107	138	DNA	53	37	103	DNA	151	96	107	35	79
18-07-25	127	112	141	DNA	61	37	85	DNA	144	120	142	36	87
19-07-25	132	103	127	DNA	69	46	118	DNA	88	118	147	26	91
20-07-25	139	68	106	DNA	52	114	118	DNA	96	129	133	62	83
21-07-25	165	57	121	DNA	54	77	130	DNA	154	153	132	61	117
22-07-25	127	63	151	DNA	60	60	131	DNA	DNA	151	155	59	155
23-07-25	153	59	135	DNA	111	61	151	DNA	DNA	153	159	60	117
24-07-25	124	34	156	DNA	51	DNA	137	DNA	91	114	165	54	102
25-07-25	80	94	37	DNA	38	DNA	35	DNA	43	60	DNA	40	57
26-07-25	89	57	79	DNA	42	DNA	61	DNA	60	59	DNA	29	53
27-07-25	116	52	161	DNA	44	DNA	82	DNA	110	84	80	78	69
28-07-25	116	61	84	DNA	35	69	120	DNA	74	97	73	38	78
29-07-25	117	50	68	DNA	35	61	81	DNA	82	76	81	43	75
30-07-25	111	DNA	70	DNA	41	DNA	67	DNA	72	86	91	34	68
31-07-25	98	DNA	48	DNA	44	58	51	DNA	59	72	70	28	72

Figure 2: Graphical representation of Gaseous and Particulate matter.



## Wind Rose Pattern of Different Divisional Cities of Bangladesh in the Month of July\_2025.



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