



Air Quality Monthly Report

September, 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 represent the Air Quality Index (AQI) followed by USEPA guideline to evaluate air pollution.

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

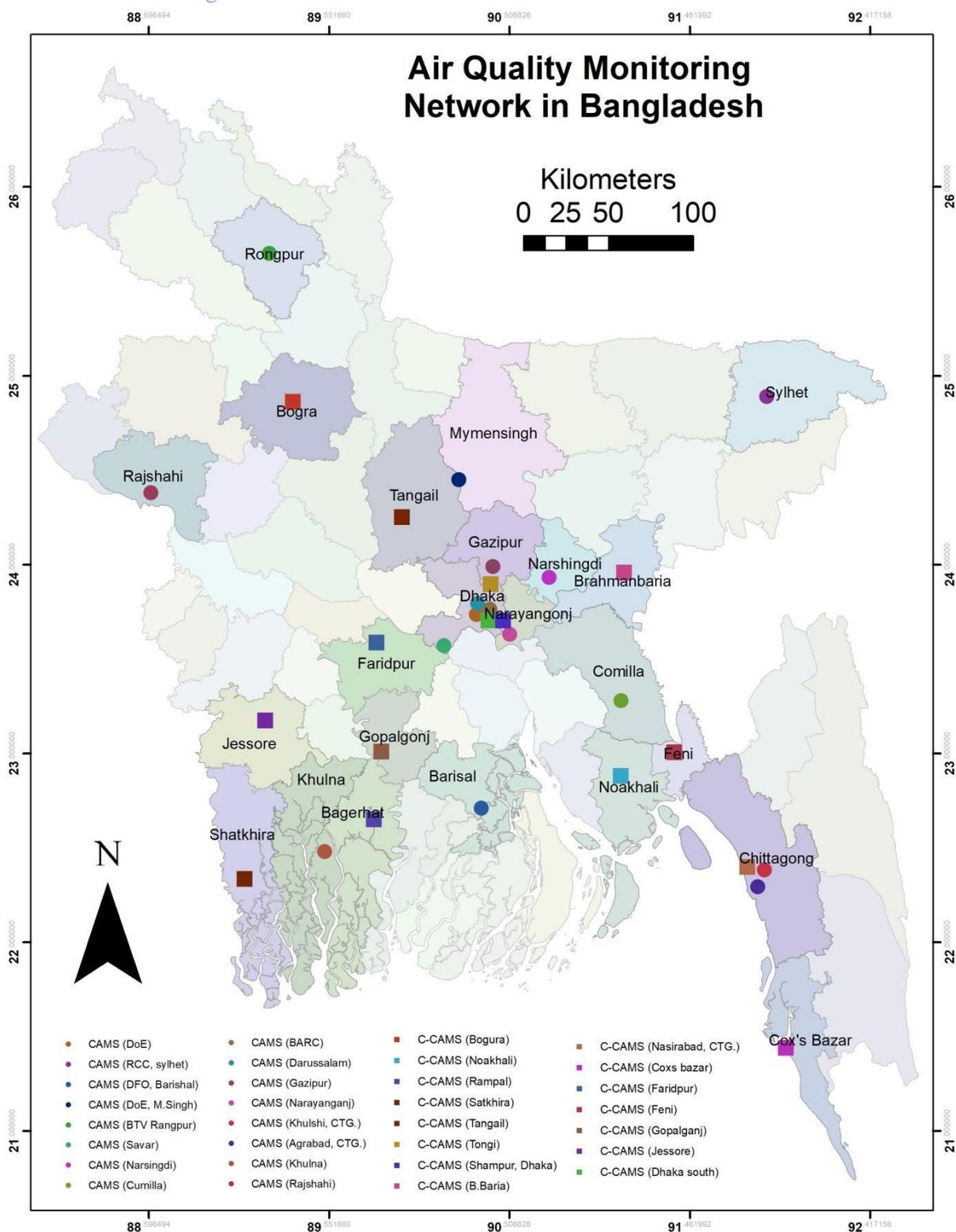
Pollutant	Limit Value	Averaging time
CO	5 mg/m ³	8 hours ^a
	20 mg/m ³	1 hour ^a
Pb	0.25 µg/m ³	Annual
	0.50 µg/m ³	24 hours
NO ₂	40 µg/m ³	Annual
	80 µg/m ³	24 hours
PM ₁₀	50 µg/m ³	Annual ^b
	150 µg/m ³	24 hours ^c
PM _{2.5}	35 µg/m ³	Annual
	65 µg/m ³	24 hours
O ₃	180 µg/m ³	1 hour ^d
	100 µg/m ³	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 September, 2025

Parameter	Summary	DoE	BARC	Darus-sala	Gazipur	Narayangan	TV-Station	Agrabad, C	Sylhet	Khulna	Rajshahi	Barisal	Savar	Mymensingh	Rangpur	Cumilla	Narshingdi	
SO₂ -24 hr (ppb)	Average	5.4	1.4	DNA	6.6	DNA	1.0	1.8	1.2	DNA	3.3	4.0	0.5	0.7	1.3	1.7	0.3	
	Max	9.3	2.3	DNA	7.5	DNA	1.2	2.8	1.3	DNA	4.6	6.6	1.3	2.4	6.5	3.7	1.1	
	Min	1.6	0.5	DNA	6.3	DNA	0.9	1.4	1.1	DNA	1.6	3.6	0.2	0.1	0.4	0.5	0.1	
	Excedance(Days)	0.0	0.0	DNA	0.0	DNA	0.0	0.0	0.0	DNA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Data capture(%)	93.5	90.3	DNA	93.5	DNA	80.6	58.1	96.8	DNA	96.8	77.4	93.5	96.8	93.5	96.8	96.8	96.8
NO₂ -24 hr (ppb)	Average	5.9	18.12	2.4	DNA	DNA	1.9	9.1	DNA	2.1	3.1	DNA	14.8	4.2	3.8	4.0	2.1	
	Max	10.5	28.00	5.3	DNA	DNA	2.0	13.6	DNA	2.9	3.4	DNA	21.6	4.5	12.6	4.2	2.8	
	Min	1.8	7.55	0.8	DNA	DNA	1.0	6.1	DNA	1.6	2.7	DNA	11.0	3.7	1.9	3.9	1.9	
	Excedance(Days)	0.0	0.00	0.0	DNA	DNA	0.0	0.0	DNA	0.0	0.0	DNA	0.0	0.0	0.0	0.0	0.0	0.0
	Data capture(%)	96.8	90.32	96.8	DNA	DNA	80.6	58.1	DNA	96.8	96.8	DNA	96.8	96.8	90.3	96.8	48.4	
CO-8hr (ppm)	Average	0.4	0.8	DNA	DNA	1.0	4.1	0.2	1.6	1.0	5.0	DNA	1.0	0.1	1.5	0.8	0.8	
	Max	1.3	3.6	DNA	DNA	1.5	12.6	0.7	3.3	1.8	13.9	DNA	3.4	0.7	34.2	2.7	5.9	
	Min	0.1	0.1	DNA	DNA	0.9	1.3	0.0	0.8	0.1	0.6	DNA	0.4	0.0	0.2	0.2	0.2	
	Excedance(Hour)	0.0	0.0	DNA	DNA	0.0	240.0	0.0	0.0	0.0	475.0	DNA	0.0	0.0	54.0	0.0	8.0	
	Data capture(%)	95.7	86.4	DNA	DNA	94.1	80.6	53.4	7.3	92.9	96.0	DNA	96.0	92.1	90.1	95.6	96.0	
O₃-8hr (ppb)	Average	12.2	14.2	DNA	7.2	5.2	3.5	4.1	0.4	11.3	3.2	16.97	12.4	7.3	16.4	13.7	4.7	
	Max	30.2	49.9	DNA	10.2	5.4	6.5	22.2	0.6	45.0	11.1	24.05	44.7	32.5	53.3	31.8	22.2	
	Min	3.5	0.7	DNA	5.6	5.1	1.9	1.3	0.3	4.1	0.4	11.68	4.5	0.3	0.2	1.7	0.5	
	Excedance(Hour)	0.0	0.0	DNA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	3.0	0.0	0.0	
	Data capture(%)	96.9	84.3	DNA	39.0	94.1	80.8	53.4	77.0	84.7	96.0	76.45	92.2	96.0	87.9	93.3	93.7	
PM_{2.5} -24hr (ug/m3)	Average	39.5	49.3	54.3	43.1	45.4	16.8	19.2	20.8	22.0	35.9	12.4	39.0	45.3	50.2	25.4	40.1	
	Max	68.5	86.1	108.0	107.0	104.1	39.4	62.9	54.7	80.7	68.6	55.1	72.2	74.3	92.4	55.1	83.0	
	Min	22.9	26.5	20.5	17.3	10.0	8.2	9.0	8.7	9.4	9.3	5.0	21.0	23.3	25.2	11.7	20.1	
	Excedance(Days)	1.0	8.0	5.0	3.0	5.0	0.0	0.0	0.0	1.0	2.0	0.0	3.0	4.0	5.0	0.0	3.0	
	Data capture(%)	96.8	90.3	74.2	80.6	80.6	80.6	32.3	74.2	96.8	87.1	93.5	96.8	96.8	90.3	96.8	96.8	
PM₁₀ -24hr (ug/m3)	Average	55.2	54.8	68.9	65.3	DNA	37.1	DNA	73.1	34.1	68.7	DNA	74.5	94.6	46.4	33.6	41.2	
	Max	83.9	107.1	72.6	158.3	DNA	88.5	DNA	132.0	77.1	96.8	DNA	154.7	151.8	96.0	90.2	85.5	
	Min	32.4	27.8	65.2	31.0	DNA	19.0	DNA	27.3	15.4	17.8	DNA	41.7	33.7	17.3	13.1	9.2	
	Excedance(Days)	0.0	0.0	0.0	1.0	DNA	0.0	DNA	0.0	0.0	0.0	DNA	1.0	2.0	0.0	0.0	0.0	
	Data capture(%)	96.8	87.1	6.5	93.5	DNA	77.4	DNA	96.8	96.8	87.1	DNA	96.8	93.5	93.5	83.9	80.6	
Solar rad. 1hr (W/m2)	Average	162.45	144.24	137.1	DNA	DNA	781.8	144.8	4.29	619.5	136.3	87.9	179.6	165.0	271.9	160.6	231.5	
	Max	584.50	858.4	1010.4	DNA	DNA	797.3	790.4	4.53	1097.9	955.8	669.6	954.5	844.6	999.8	873.2	1012.4	
	Min	1.20	0.1	7.6	DNA	DNA	97.8	7.2	3.88	41.9	0.0	6.3	0.0	0.0	0.1	0.0	0.0	
	Data capture(%)	45.83	81	97	DNA	DNA	96	53	90.19	75	75	96	75.0	41.3	57.4	90.5	72.4	
	Relative Humidity 1hr (%)	Average	75.50	66.3	78.8	DNA	DNA	44.7	84.9	39.69	92.6	96.4	56.9	84.4	96.2	88.6	90.2	45.1
Max		91.49	78.1	95.0	DNA	DNA	57.2	99.9	39.81	99.8	96.8	66.0	99.5	99.5	99.8	100.0	81.5	
Min		43.76	28.2	49.8	DNA	DNA	35.0	54.3	39.61	68.4	85.5	49.5	52.4	24.9	56.2	57.0	15.7	
Data capture(%)		94.62	86.3	96.9	DNA	DNA	96	51	90.19	80	93	96	95.2	55.1	87.1	42.2	96.2	
Ambient Temp. 1hr (degreeC)		Average	28.60	30.1	30.1	DNA	DNA	23.6	30.7	DNA	30.5	31.9	DNA	27.8	28.0	28.4	28.4	28.3
	Max	37.88	37.3	43.0	DNA	DNA	26.0	42.7	DNA	36.2	37.4	DNA	35.2	34.2	34.7	35.4	35.2	
	Min	15.20	16.1	13.5	DNA	DNA	16.0	14.3	DNA	19.7	14.2	DNA	16.7	14.6	14.9	17.2	17.6	
	Data capture(%)	77.15	86.3	9	DNA	DNA	91	22	DNA	91	93	DNA	94.1	55.0	86.0	92.6	94.9	
	Rainfall 1hr (mm)	Average	DNA	0.35	DNA	DNA	DNA	DNA	DNA	DNA	0.22	0.07	0.4	0.53	0.01	0.44	0.05	0.16
Max		DNA	52.60	DNA	DNA	DNA	DNA	DNA	DNA	20.60	9.40	1.0	54.15	0.60	48.55	4.72	23.01	
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	96.77	DNA	DNA	DNA	DNA	DNA	DNA	96.91	96.77	94	96.91	96.91	96.91	96.91	96.91	
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) September, 2025

Date	Dhaka	Chattogram	Gazipur	Narayangonj	Sylhet	Khulna	Rajshahi	Barishal	Savar	Mymensingh	Rangpur	Cumilla	Norshingdi
01-09-25	140	78	91	DNA	57	67	58	DNA	116	100	111	117	141
02-09-25	78	28	60	DNA	44	40	61	DNA	82	71	78	58	71
03-09-25	101	38	78	DNA	28	52	54	DNA	86	94	129	54	78
04-09-25	108	56	80	DNA	36	37	119	DNA	71	139	104	49	74
05-09-25	90	80	94	DNA	40	53	148	DNA	83	130	114	61	75
06-09-25	119	41	DNA	84	53	72	114	DNA	85	98	130	87	125
07-09-25	132	45	93	68	63	68	154	DNA	110	100	152	75	125
08-09-25	134	48	123	69	65	95	147	DNA	122	114	154	82	135
09-09-25	145	111	116	113	83	163	150	DNA	146	154	156	112	153
10-09-25	138	68	98	75	72	52	161	DNA	115	134	155	101	154
11-09-25	132	56	101	81	69	61	133	DNA	98	122	144	84	121
12-09-25	106	45	105	60	50	50	32	DNA	107	119	150	73	90
13-09-25	85	51	90	DNA	48	43	51	DNA	94	77	131	53	83
14-09-25	94	61	108	DNA	48	55	60	DNA	87	80	114	43	76
15-09-25	89	77	80	DNA	46	DNA	56	DNA	76	91	94	60	77
16-09-25	93	DNA	95	DNA	55	41	64	DNA	71	74	87	60	67
17-09-25	94	DNA	93	DNA	75	49	80	DNA	81	104	99	69	77
18-09-25	135	DNA	82	DNA	56	63	119	DNA	88	101	108	96	93
19-09-25	146	DNA	122	DNA	64	76	93	DNA	129	122	109	101	113
20-09-25	178	DNA	155	DNA	145	89	152	DNA	158	157	144	85	152
21-09-25	168	197	155	DNA	99	153	151	DNA	154	157	159	133	164
22-09-25	129	DNA	98	96	56	81	120	DNA	85	144	165	56	92
23-09-25	108	37	DNA	53	34	55	66	DNA	83	131	90	52	77
24-09-25	126	33	DNA	79	56	69	76	DNA	126	151	DNA	77	88
25-09-25	155	44	DNA	143	44	79	77	DNA	118	127	92	82	109
26-09-25	125	50	DNA	53	98	66	81	DNA	144	160	146	63	81
27-09-25	124	DNA	142	58	52	57	47	DNA	DNA	116	DNA	70	90
28-09-25	133	DNA	112	138	63	62	50	51	DNA	152	151	63	114
29-09-25	162	DNA	153	192	74	75	66	68	158	157	160	107	160
30-09-25	161	DNA	169	168	86	DNA	96	81	156	112	163	149	164

Figure 2: Graphical representation of Gaseous and Particulate matter.

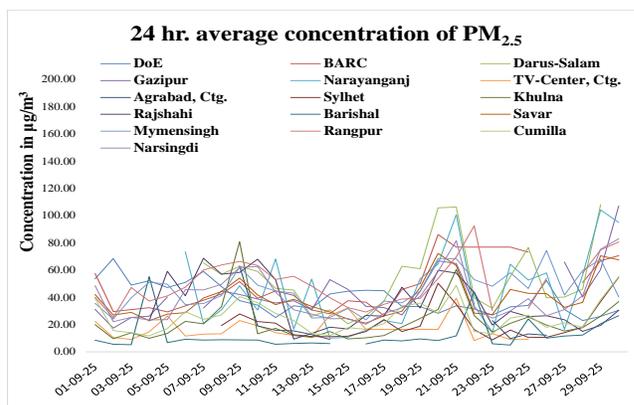
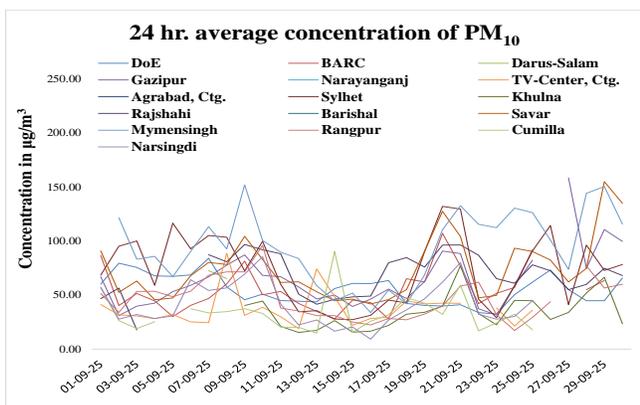
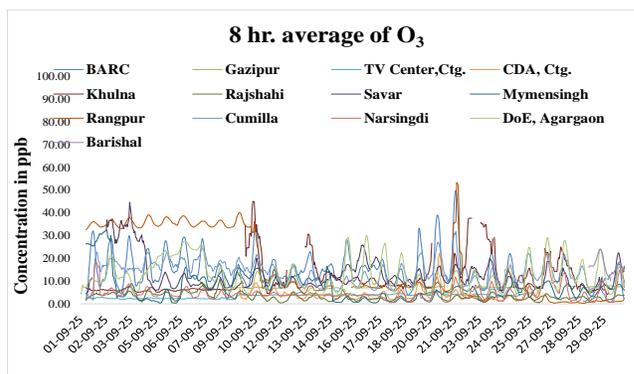
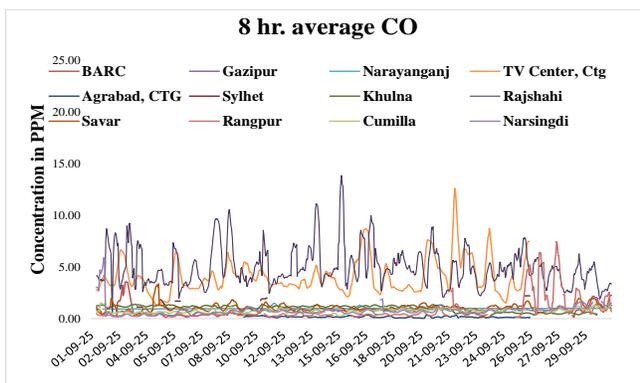
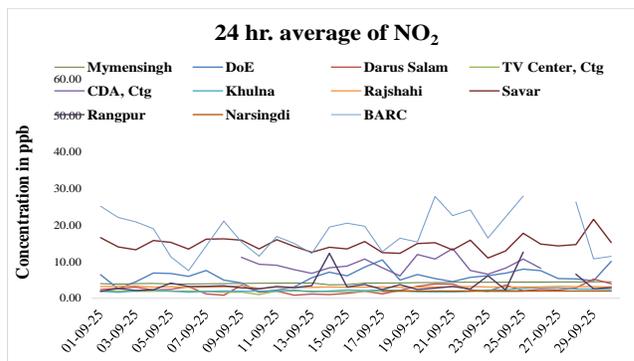
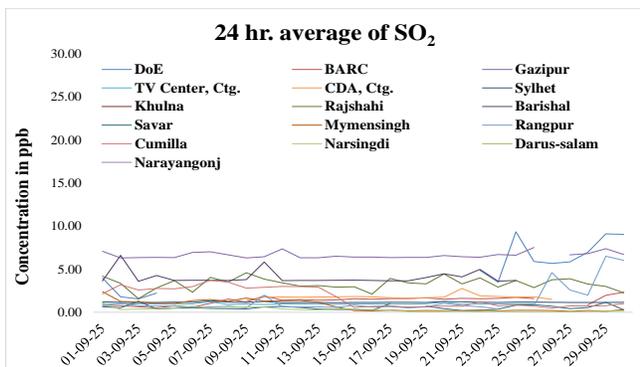
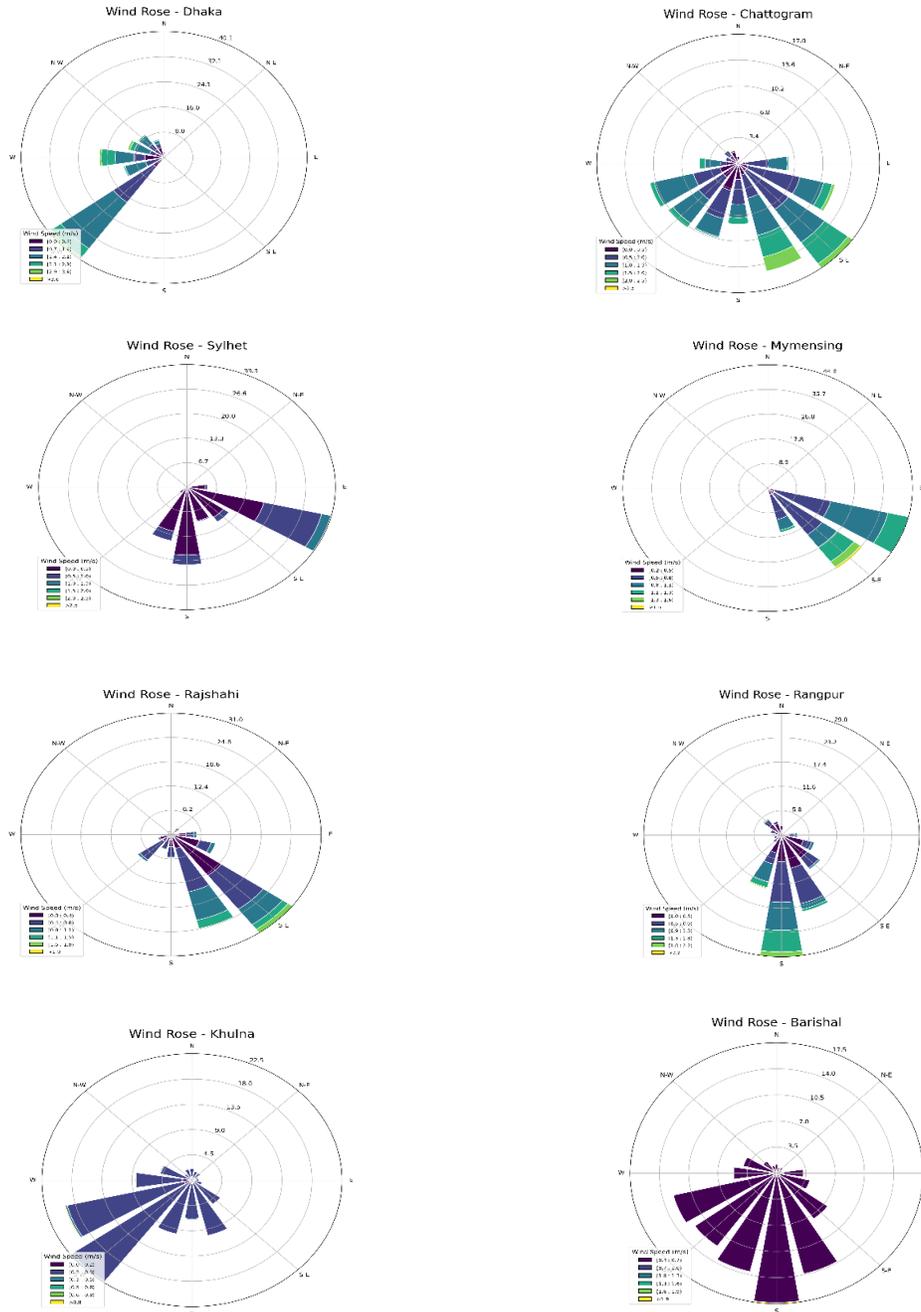


Figure 3: Wind Rose Pattern of Different Divisional Cities of Bangladesh in the Month of September_2025.



CONTACT US
 Call us: (+880)2223375037;
 E-mail us: aqm.doe@gmail.com
 Department of Environment, Ministry of
 Environment, Forest and Climate Change,
 Bangladesh.
 More information: <http://www.doe.portal.gov.bd>

