Air Quality Monthly Report

December, 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, NOx 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

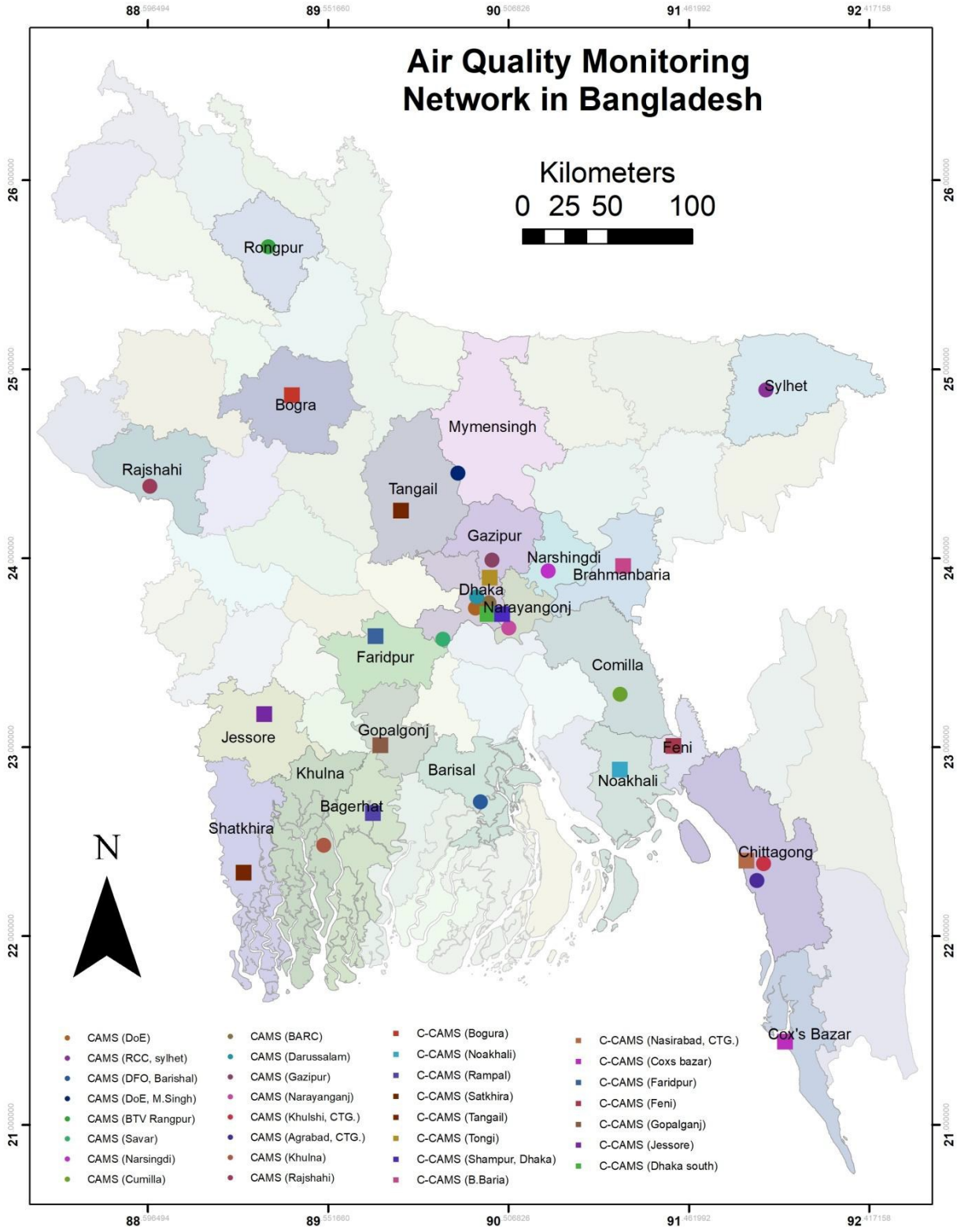
Pollutant	Limit Value	Averaging time
CO	5 mg/m^3	8 hours[a]
	20 mg/m^3	1 hour[a]
Pb	0.25 µg/m^3	Annual
	0.50 µg/m^3	24 hours
NO_2	40 µg/m^3	Annual
	80 µg/m^3	24 hours
PM_{10}	50 µg/m^3	Annual[b]
	150 µg/m^3	24 hours[c]
$PM_{2.5}$	35 µg/m^3	Annual
	65 µg/m^3	24 hours
O_3	180 µg/m^3	1 hour[d]
	100 µg/m^3	8 hours
SO_2	250 µg/m3	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 & NOx 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& NOx with Meteorological 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/Industrial		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 December, 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_2 -24 hr (ppb)	Average	10.8	11.5	DNA	7.3	DNA	1.0	2.2	1.2	5.8	3.0	DNA	3.1	2.4	6.2	15.9	4.6
	Max	27.9	41.8	DNA	8.6	DNA	1.0	7.1	1.3	13.8	6.4	DNA	6.6	14.1	10.1	52.6	19.8
	Min	1.2	1.1	DNA	6.6	DNA	0.9	1.3	1.1	0.9	0.8	DNA	0.3	0.6	1.3	0.5	1.5
	Excedance(Days)	0.0	1.0	DNA	0.0	DNA	0.0	0.0	0.0	0.0	0.0	DNA	0.0	0.0	0.0	9.0	0.0
	Data capture(%)	100.0	64.5	DNA	100.0	DNA	83.9	93.5	100.0	100.0	100.0	DNA	93.5	100.0	96.8	100.0	93.5
NO2 -24 hr (ppb)	Average	34.1	15.39	4.8	DNA	DNA	DNA	21.4	24.1	2.1	3.1	DNA	5.0	3.2	2.9	1.6	19.8
	Max	55.0	33.52	8.8	DNA	DNA	DNA	46.5	24.1	4.2	6.9	DNA	8.7	3.3	8.1	3.0	45.5
	Min	12.5	3.86	1.4	DNA	DNA	DNA	10.2	24.1	1.7	2.8	DNA	2.5	2.9	1.0	0.9	5.1
	Excedance(Days)	8.0	0.00	0.0	DNA	DNA	DNA	1.0	0.0	0.0	0.0	DNA	0.0	0.0	0.0	0.0	1.0
	Data capture(%)	100.0	83.87	100.0	DNA	DNA	DNA	83.9	100.0	100.0	100.0	DNA	51.6	100.0	100.0	93.5	61.3
CO-8hr (ppm)	Average	0.7	0.8	DNA	DNA	0.7	4.3	1.4	DNA	1.3	0.9	DNA	0.8	1.0	1.4	1.2	1.6
	Max	3.4	9.9	DNA	DNA	1.2	13.6	4.6	DNA	3.5	1.3	DNA	1.4	1.9	9.1	4.1	5.0
	Min	0.1	0.2	DNA	DNA	0.5	2.2	0.8	DNA	0.1	0.6	DNA	0.2	0.5	0.2	0.1	1.1
	Excedance(Hour)	0.0	8.0	DNA	DNA	0.0	268.0	1.0	DNA	0.0	0.0	DNA	0.0	0.0	29.0	1.0	7.0
	Data capture(%)	97.6	73.3	DNA	DNA	99.1	98.5	84.4	DNA	92.7	99.1	DNA	82.5	99.1	100.0	98.8	91.1
O_3-8hr (ppb)	Average	15.4	23.8	DNA	7.7	5.6	5.6	11.2	0.4	9.3	1.7	21.06	9.6	6.5	4.8	10.9	48.2
	Max	46.0	169.5	DNA	8.3	36.3	14.1	49.0	0.5	25.7	5.3	66.62	46.8	40.9	30.3	46.1	110.1
	Min	0.2	2.0	DNA	7.0	0.2	2.4	2.6	0.3	1.4	0.1	0.68	1.2	0.1	0.2	0.3	0.3
	Excedance(Hour)	0.0	83.0	DNA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.00	0.0	0.0	0.0	0.0	271.0
	Data capture(%)	100.0	74.7	DNA	71.5	61.3	96.9	89.5	64.0	98.9	99.1	94.89	88.8	92.7	98.8	98.1	83.2
$PM_{2.5}$ -24hr (ug/m3)	Average	114.1	70.0	209.6	149.8	242.5	119.4	104.6	53.0	146.2	138.2	129.2	107.2	118.8	154.7	122.1	100.9
	Max	156.2	159.9	364.3	229.7	387.0	271.3	189.0	106.6	284.6	195.1	191.3	171.2	148.9	283.1	188.0	161.0
	Min	51.6	20.1	85.2	70.7	173.2	61.4	64.9	28.5	75.7	74.3	42.5	34.7	61.5	44.7	58.1	44.4
	Excedance(Days)	30.0	16.0	13.0	9.0	31.0	28.0	24.0	5.0	31.0	31.0	26.0	25.0	30.0	28.0	30.0	22.0
	Data capture(%)	100.0	80.6	41.9	29.0	100.0	100.0	80.6	96.8	100.0	100.0	90.3	93.5	100.0	100.0	100.0	90.3
PM_{10} -24hr (ug/m3)	Average	194.2	123.9	183.9	190.7	DNA	DNA	222.2	124.9	166.7	290.6	DNA	DNA	227.5	130.6	186.5	162.5
	Max	269.4	276.8	313.4	311.3	DNA	DNA	475.8	202.3	251.2	461.0	DNA	DNA	320.2	284.7	248.7	235.1
	Min	83.7	19.8	53.6	98.7	DNA	DNA	123.8	74.2	53.3	144.8	DNA	DNA	123.8	80.3	128.4	82.3
	Excedance(Days)	27.0	3.0	8.0	2.0	DNA	DNA	24.0	6.0	22.0	20.0	DNA	DNA	18.0	9.0	12.0	17.0
	Data capture(%)	100.0	51.6	38.7	12.9	DNA	DNA	87.1	100.0	100.0	67.7	DNA	DNA	67.7	100.0	45.2	93.5
Solar rad. 1hr (W/m2)	Average	150.71	211.17	65.8	DNA	DNA	717.0	112.3	4.28	674.8	136.6	58.7	180.1	111.0	247.9	153.8	241.7
	Max	478.40	546.4	429.7	DNA	DNA	797.3	550.5	4.55	989.1	553.9	286.3	595.1	422.8	684.1	541.7	727.8
	Min	0.10	0.1	7.1	DNA	DNA	65.3	6.5	3.85	40.2	0.0	6.1	0.0	0.0	0.1	0.0	0.0
	Data capture(%)	39.92	8	100	DNA	DNA	96	90	94.76	73	50	100	56.2	58.2	46.1	65.1	38.3
Relative Humidity 1hr (%)	Average	67.88	73.54	72.4	DNA	DNA	44.7	70.7	39.70	69.8	90.4	87.0	70.0	88.9	85.0	77.3	35.6
	Max	92.94	99.36	96.9	DNA	DNA	45.5	99.8	39.78	89.8	90.7	89.0	99.4	99.5	99.9	100.0	81.8
	Min	37.26	32.58	35.9	DNA	DNA	35.0	25.9	39.62	59.1	90.1	83.9	26.1	37.8	39.1	32.5	15.4
	Data capture(%)	97.85	98.0	100.0	DNA	DNA	96	86	94.76	97	98	100	88.4	100.0	99.2	63.8	85.5
Ambient Temp. 1hr (degreeC)	Average	DNA	17.21	27.4	DNA	DNA	20.34	21.5	DNA	18.1	20.0	DNA	18.8	18.2	17.1	19.2	18.5
	Max	DNA	24.88	32.4	DNA	DNA	29.6	30.2	DNA	27.2	30.0	DNA	27.2	27.1	26.6	29.0	28.1
	Min	DNA	10.44	9.4	DNA	DNA	11.57	10.1	DNA	11.4	10.9	DNA	11.3	11.6	10.1	11.8	11.8
	Data capture(%)	DNA	98.0	85	DNA	DNA	94	56	DNA	97	98	DNA	88.2	99.7	96.4	96.9	75.3
Rainfall 1hr (mm)	Average	0.00	0.00	DNA	DNA	DNA	DNA	DNA	DNA	0.00	0.00	DNA	0.00	0.01	0.37	0.00	0.00
	Max	0.00	0.00	DNA	DNA	DNA	DNA	DNA	DNA	0.00	0.00	DNA	0.30	1.20	55.50	0.00	0.08
	Min	0.00	0.00	DNA	DNA	DNA	DNA	DNA	DNA	0.00	0.00	DNA	0.00	0.00	0.00	0.00	0.00
	Data capture(%)	99.46	100.00	DNA	DNA	DNA	DNA	DNA	DNA	90.86	100.00	DNA	100.00	100.00	100.00	100.00	100.00

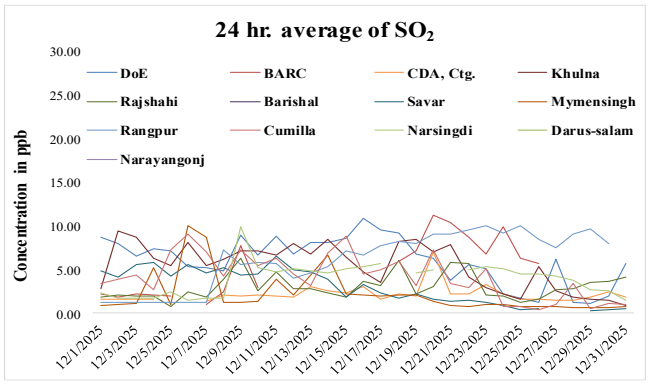
CAMS= Continuous Air Monitoring Station, NAAQS=National Ambient Air Quality Standard, a=Refurbisment CAMS, PM= Particulate Matter

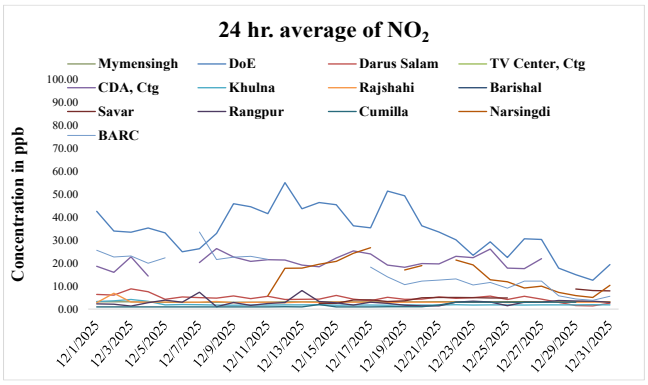
DNA= Data Not Available

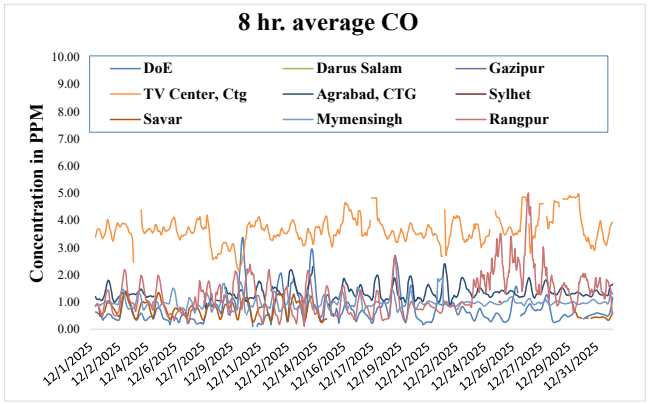
Table 6: Air Quality Index (AQI) December, 2025

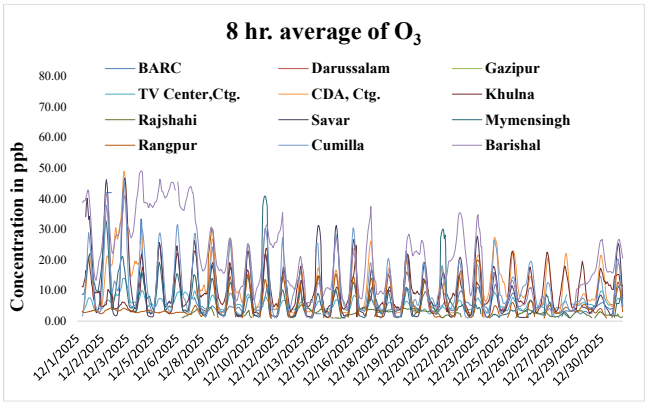
Date	Dhaka	Chattogram	Gazipur	Narayangonj	Sylhet	Khulna	Rajshahi	Barishal	Savar	Mymensingh	Rangpur	Cumilla	Norshingdi
01/12/2025	175	165	DNA	DNA	155	178	214	211	187	178	277	186	193
02/12/2025	214	DNA	DNA	DNA	147	181	206	208	216	191	344	248	210
03/12/2025	214	DNA	DNA	DNA	147	181	206	208	216	191	344	248	210
04/12/2025	215	DNA	DNA	DNA	116	182	229	206	205	183	340	226	209
05/12/2025	193	DNA	DNA	DNA	103	169	176	188	195	172	247	176	185
06/12/2025	177	DNA	DNA	DNA	115	172	185	183	189	199	249	187	187
07/12/2025	177	209	DNA	DNA	95	175	189	184	185	190	289	193	185
08/12/2025	182	182	DNA	DNA	99	185	198	187	190	190	241	186	186
09/12/2025	180	180	DNA	DNA	110	177	233	216	187	197	283	180	166
10/12/2025	157	166	DNA	DNA	108	169	224	194	185	188	258	175	159
11/12/2025	180	170	DNA	DNA	147	186	215	194	187	200	270	184	162
12/12/2025	180	183	DNA	DNA	149	192	200	179	188	174	185	204	148
13/12/2025	169	181	DNA	DNA	DNA	184	182	188	178	175	255	164	153
14/12/2025	158	162	DNA	DNA	155	167	174	167	164	195	179	173	122
15/12/2025	171	171	DNA	DNA	159	175	160	171	184	173	193	172	157
16/12/2025	186	215	DNA	DNA	139	173	164	170	162	190	190	186	160
17/12/2025	166	234	DNA	DNA	85	176	176	171	155	174	195	190	167
18/12/2025	183	156	DNA	DNA	132	163	205	DNA	146	181	191	169	DNA
19/12/2025	180	165	DNA	DNA	157	166	194	DNA	153	197	235	181	DNA
20/12/2025	203	167	DNA	DNA	168	182	187	DNA	160	179	190	173	DNA
21/12/2025	239	178	DNA	DNA	157	185	187	239	166	179	189	185	DNA
22/12/2025	230	184	DNA	DNA	DNA	183	191	208	165	184	232	195	DNA
23/12/2025	226	185	279	DNA	127	195	220	192	169	199	197	210	DNA
24/12/2025	274	197	229	DNA	162	186	181	204	178	187	165	207	162
25/12/2025	293	191	246	DNA	236	DNA	215	200	175	197	178	199	112
26/12/2025	298	DNA	221	DNA	151	229	224	241	DNA	186	195	187	214
27/12/2025	260	191	190	DNA	168	206	254	195	DNA	170	169	172	154
28/12/2025	235	119	190	DNA	169	179	203	188	DNA	183	153	187	159
29/12/2025	180	163	DNA	DNA	128	151	175	152	157	160	135	175	177
30/12/2025	160	158	DNA	158	96	185	165	164	98	153	123	151	172
31/12/2025	178	167	DNA	169	152	153	177	166	DNA	180	156	171	140

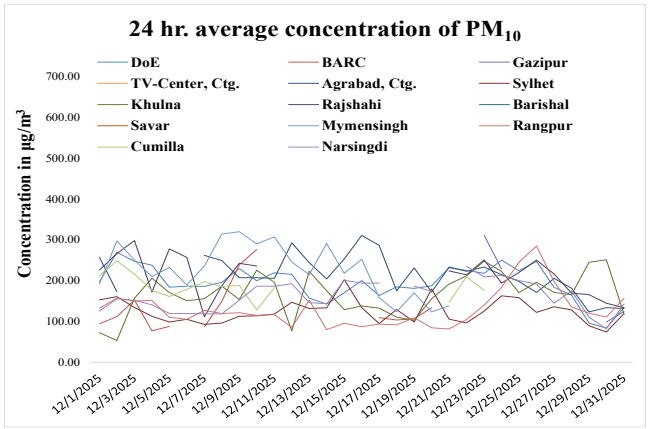
Figure 2: Graphical representation of Gaseous and Particulate matter.











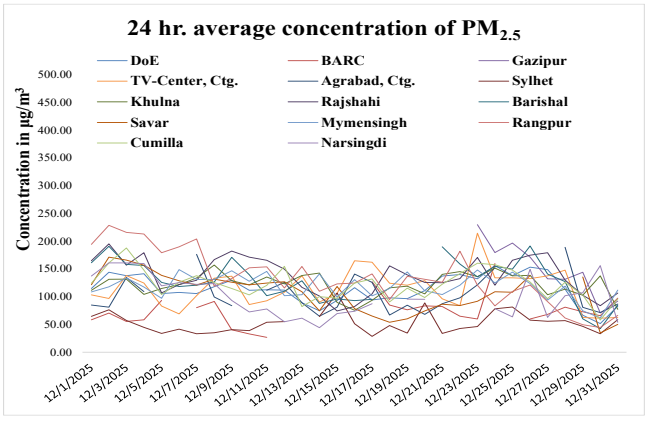
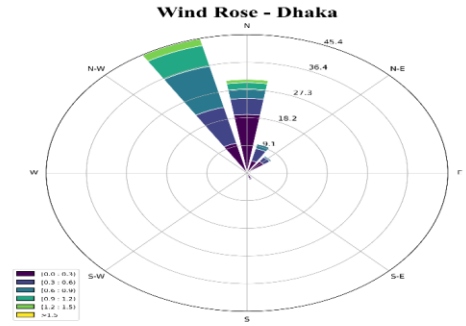
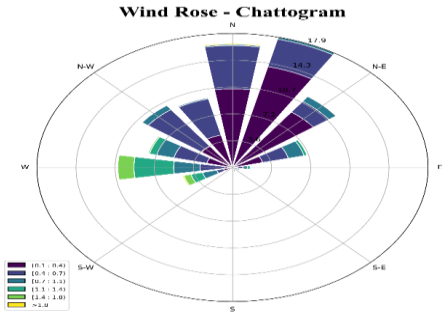
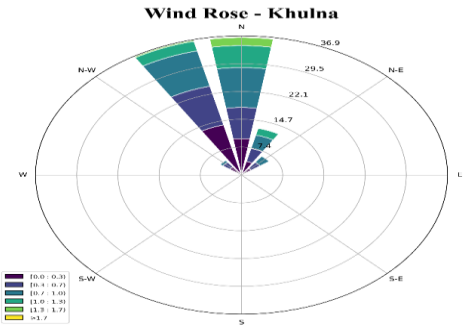
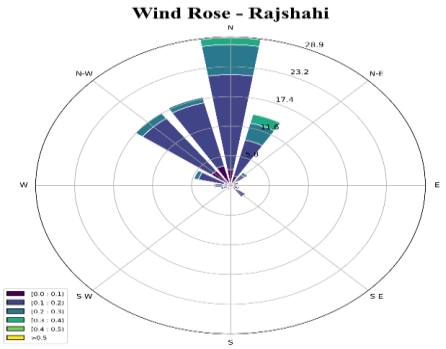


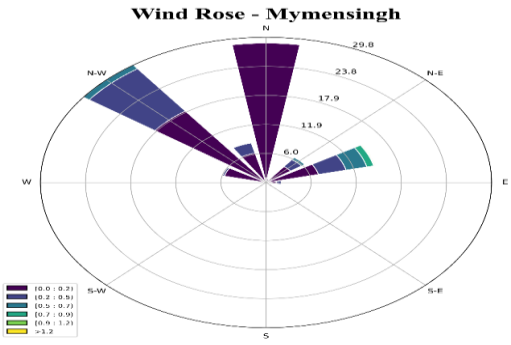
Figure 3: Wind Rose Pattern of Different Divisional Cities of Bangladesh in the Month of December_2025.

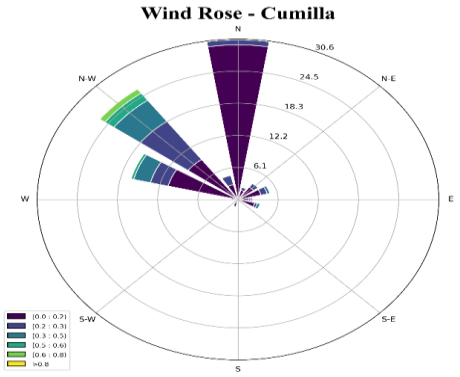


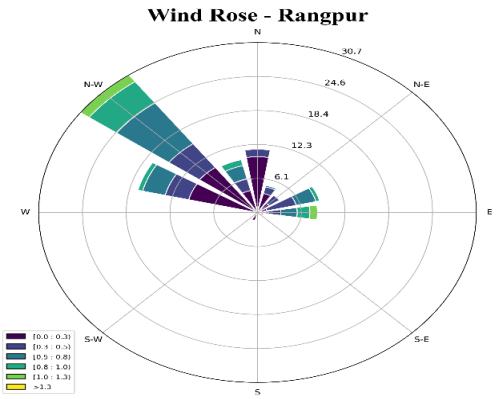


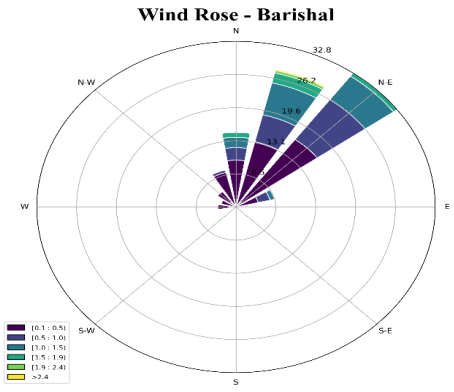












CONTACT US
Call us: (+880)2223375037;
E-mail us: aqm.doe@gmail.com
Department of Environment, Ministry of Environment, Forest and Climate Change, Bangladesh.

More information: http://www.doe.portal.gov.bd