



# Air Quality Monthly Report

## February, 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 <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>x</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>		Annual
	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		SUB		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	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	18 & 20
BUET	C-CAMS-25	Department of Chemical Engineering, BUET, Dhaka	23°.72'75.91"N 90°.39'27.97"E	2020	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

# Summary of Components

## Month of February, 2025

Table 5: Summary of components\_ Month of February, 2025

Parameter	Summary	DoE	BARC	Darus-salam, Dhaka	Gazipur	Narayanganj	TV-Station, Chattagram	Agrabad, Chattagram	Sylhet	Khulna	Rajshahi	Barisal	Savar	Mymensingh	Rangpur	Cumilla	Narsingdi
SO <sub>2</sub> -24 hr (ppb)	Average	23.7	1.4	2.7	8.6	DNA	76.6	13.9	2.8	72.9	4.2	5.5	6.4	1.5	3.9	3.0	3.6
	Max	43.6	2.2	3.5	9.5	DNA	124.6	15.9	3.5	92.3	10.7	7.2	12.6	11.4	8.3	4.2	8.2
	Min	6.6	0.8	2.3	7.7	DNA	16.5	12.1	1.9	27.6	2.1	4.4	2.9	0.2	1.8	2.4	2.0
	Excedance(Days)	5.0	0.0	0.0	0.0	DNA	20.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Data capture(%)	90.3	90.3	67.7	74.2	DNA	71.0	90.3	80.6	54.8	87.1	90.3	90.3	80.6	80.6	77.4	83.9
NO <sub>2</sub> -24 hr (ppb)	Average	30.6	80.4	8.1	DNA	1.7	2.5	5.1	24.1	2.0	2.0	DNA	8.3	4.9	DNA	4.4	3.2
	Max	50.3	117.1	13.1	DNA	2.1	3.4	6.7	24.1	3.2	11.7	DNA	11.4	6.0	DNA	5.1	5.3
	Min	21.1	52.3	5.2	DNA	1.4	1.9	3.6	24.1	1.2	0.8	DNA	6.1	3.9	DNA	3.8	2.3
	Excedance(Days)	3.0	28.0	0.0	DNA	0.0	0.0	0.0	0.0	0.0	0.0	DNA	0.0	0.0	DNA	0.0	0.0
	Data capture(%)	90.3	90.3	90.3	DNA	22.6	90.3	90.3	90.3	90.3	87.1	DNA	90.3	90.3	DNA	90.3	90.3
CO-8hr (ppm)	Average	1.0	1.8	1.0	DNA	0.9	2.1	13.8	2.6	2.0	3.2	23.2	1.4	1.6	1.4	2.7	0.7
	Max	3.1	3.6	2.7	DNA	1.0	8.2	30.6	4.4	2.4	9.6	25.4	4.7	4.9	4.9	6.6	3.7
	Min	0.3	0.9	0.2	DNA	0.9	0.2	10.0	1.6	1.6	0.6	17.2	0.2	0.8	0.2	1.8	0.2
	Excedance(Hour)	0.0	0.0	0.0	DNA	0.0	26.0	665.0	17.0	0.0	148.0	658.0	3.0	11.0	8.0	17.0	0.0
	Data capture(%)	89.4	88.0	89.4	DNA	89.4	81.7	89.4	89.4	89.4	85.6	88.4	89.4	89.4	89.4	79.0	89.4
O <sub>3</sub> -8hr (ppb)	Average	12.3	12.8	0.6	8.3	5.8	15.7	DNA	0.6	20.6	15.9	DNA	37.8	11.7	12.8	DNA	11.0
	Max	48.5	54.5	0.9	16.2	5.9	52.8	DNA	5.2	61.9	58.8	DNA	93.4	40.3	69.3	DNA	40.2
	Min	0.2	0.6	0.1	6.5	5.5	4.8	DNA	0.1	3.3	1.1	DNA	7.5	1.1	0.2	DNA	0.5
	Excedance(Hour)	0.0	5.0	0.0	0.0	0.0	2.0	DNA	0.0	6.0	6.0	DNA	152.0	0.0	6.0	DNA	0.0
	Data capture(%)	90.3	88.0	89.4	85.9	17.6	89.4	DNA	85.9	89.4	85.6	DNA	89.4	89.4	77.8	DNA	89.4
PM <sub>2.5</sub> -24hr (ug/m3)	Average	132.2	127.8	155.0	186.9	152.0	147.9	115.1	101.3	99.7	183.7	32.9	173.4	159.7	185.0	129.4	153.0
	Max	211.7	227.9	255.9	300.9	260.1	235.5	200.7	158.1	189.9	288.6	52.5	243.9	226.6	296.1	236.7	234.9
	Min	83.1	71.8	91.0	117.6	55.7	82.1	65.1	48.4	45.2	68.6	17.4	92.7	100.6	78.4	42.2	97.6
	Excedance(Days)	28.0	28.0	27.0	22.0	20.0	28.0	28.0	26.0	22.0	27.0	0.0	28.0	28.0	25.0	24.0	28.0
	Data capture(%)	90.3	90.3	87.1	71.0	67.7	90.3	90.3	90.3	90.3	87.1	90.3	90.3	90.3	80.6	90.3	90.3
PM <sub>10</sub> -24hr (ug/m3)	Average	293.3	259.5	218.7	274.0	355.3	124.3	257.6	224.7	232.6	246.9	DNA	308.7	267.5	295.1	255.1	DNA
	Max	428.1	397.2	353.1	399.6	458.1	218.9	360.9	390.0	430.0	363.4	DNA	450.6	391.1	369.6	314.8	DNA
	Min	203.1	140.3	136.8	185.3	279.5	21.4	148.8	111.4	115.0	109.9	DNA	183.1	198.6	211.7	191.9	DNA
	Excedance(Days)	28.0	27.0	22.0	18.0	6.0	9.0	27.0	22.0	22.0	20.0	DNA	28.0	28.0	22.0	11.0	DNA
	Data capture(%)	90.3	90.3	80.6	58.1	19.4	74.2	90.3	74.2	90.3	71.0	DNA	90.3	90.3	71.0	35.5	DNA
Solar rad. 1hr (W/m2)	Average	192.39	268.14	102.1	0.3	DNA	289.5	119.7	4.5	745.5	186.4	73.2	271.6	216.8	352.5	268.0	257.0
	Max	583.90	749.1	1020.0	0.9	DNA	2437.5	558.9	4.8	2142.5	621.9	464.5	803.8	784.8	809.5	700.4	787.4
	Min	0.20	0.1	1006.2	0.0	DNA	0.1	7.3	3.8	0.2	0.1	5.9	0.0	0.0	0.1	0.0	0.0
	Data capture(%)	44.49	51	67	6	DNA	16	85	89	86	40	87	49.2	43.4	38.2	48.9	48.8
Relative Humidity 1hr (%)	Average	58.26	44.6	62.0	DNA	DNA	42.5	61.7	39.7	89.8	93.1	86.3	60.9	79.2	76.6	73.9	45.9
	Max	92.41	78.0	95.3	DNA	DNA	42.6	99.8	39.8	99.7	93.4	88.6	99.4	99.6	99.8	100.0	93.3
	Min	21.30	15.3	20.5	DNA	DNA	38.4	16.1	39.6	82.1	85.6	83.7	16.5	30.2	31.6	24.9	15.8
	Data capture(%)	89.38	75.3	90.3	DNA	DNA	60	84	89	89	84	87	90.3	82.4	77.6	73.5	88.7
Ambient Temp. 1hr (degreeC)	Average	21.51	23.1	33.6	DNA	DNA	24.3	24.1	DNA	24.8	24.1	8.1	21.7	20.7	19.3	22.4	22.0
	Max	31.63	29.8	43.0	DNA	DNA	34.0	42.9	DNA	31.8	32.3	10.7	30.0	29.1	28.2	30.4	30.3
	Min	10.71	15.6	7.1	DNA	DNA	8.1	7.6	DNA	16.3	7.2	7.0	12.7	8.1	10.2	13.6	13.5
	Data capture(%)	89.38	90.2	67	DNA	DNA	88	41	DNA	90	84	9	90.1	81.7	75.4	90.3	89.0
Rainfall 1hr (mm)	Average	DNA	1.20	0.80	0.01	DNA	33.41	DNA	DNA	1.80	DNA	0.25	14.40	0.65	0.33	DNA	0.92
	Max	DNA	2.60	0.80	0.03	DNA	34.82	DNA	DNA	2.40	DNA	0.76	16.10	3.00	0.35	DNA	1.87
	Min	DNA	0.20	0.60	0.01	DNA	32.52	DNA	DNA	1.20	DNA	0.01	11.80	0.07	0.30	DNA	0.30
	Data capture(%)	DNA	0.40	90.32	11.29	DNA	11.42	DNA	DNA	0.27	DNA	77.96	0.40	0.94	0.27	DNA	0.40

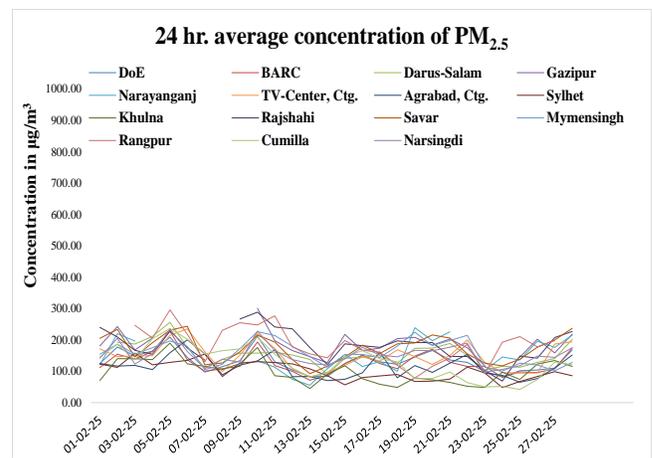
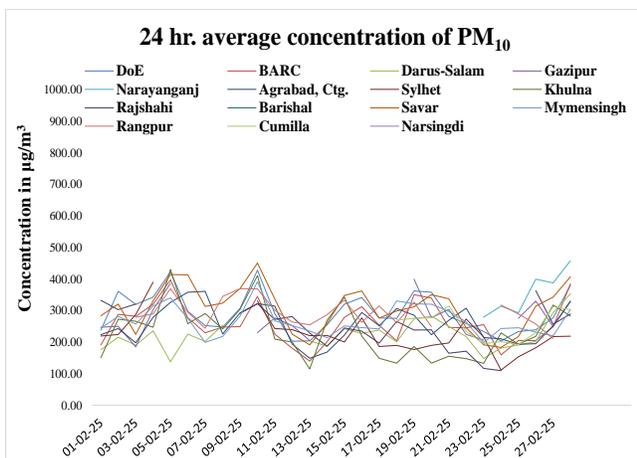
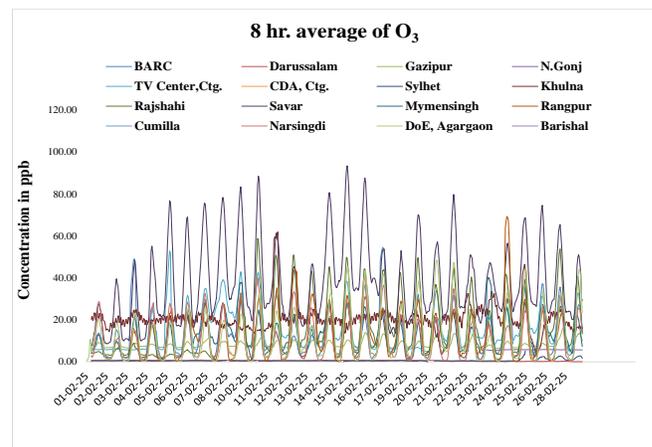
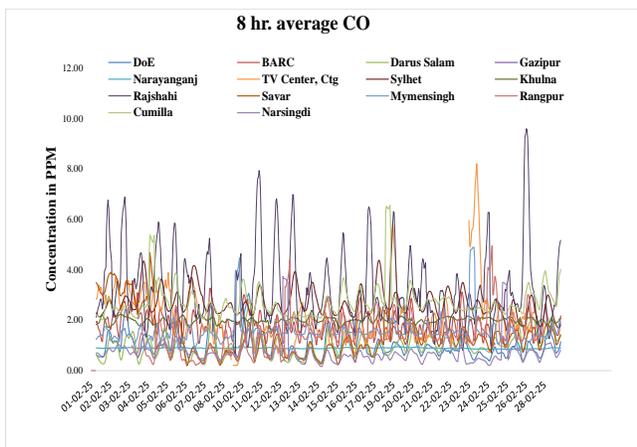
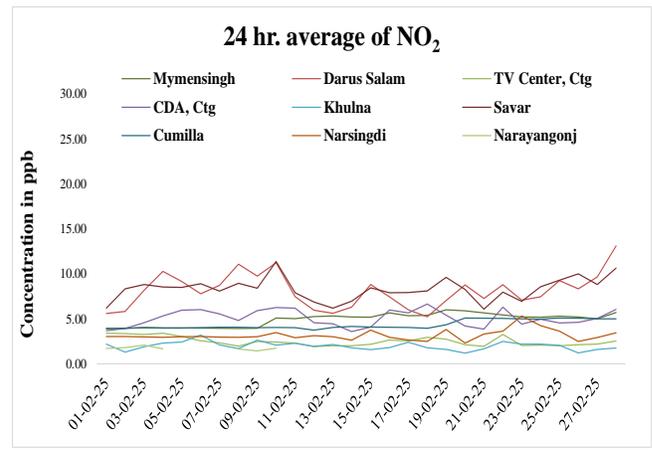
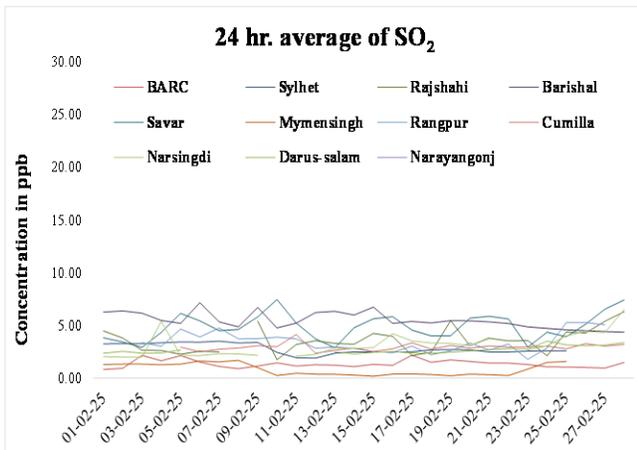
CAMS= Continuous Air Monitoring Station, NAAQS=National Ambient Air Quality Standard, a=Refurbishment CAMS, PM= Particulate Matter

DNA= Data Not Available

Table 6: Air Quality Index (AQI), Month of February, 2025

Date	Dhaka	Chittagong	Gazipur	Narayangonj	Sylhet	Khulna	Rajshahi	Barisal	Savar	Mymensingh	Rangpur	Cumilla	Norshindi
01-02-25	218	204	231	177	241	158	378	108	255	204	DNA	197	196
02-02-25	263	190	292	269	180	195	259	DNA	283	236	DNA	236	255
03-02-25	259	192	218	246	208	195	217	DNA	198	205	296	193	186
04-02-25	257	201	256	DNA	184	193	204	DNA	234	225	256	252	206
05-02-25	330	237	DNA	DNA	188	239	278	122	281	247	318	286	284
06-02-25	234	260	DNA	DNA	192	186	226	127	316	229	267	252	213
07-02-25	186	214	DNA	DNA	238	182	203	DNA	184	176	189	205	178
08-02-25	205	168	DNA	DNA	165	177	DNA	DNA	187	185	280	216	195
09-02-25	205	193	DNA	DNA	178	186	316	116	212	217	304	229	189
10-02-25	251	232	DNA	191	190	225	338	141	265	276	297	258	278
11-02-25	230	231	DNA	184	186	168	291	DNA	243	264	283	204	216
12-02-25	194	172	DNA	DNA	186	163	285	DNA	193	229	212	181	193
13-02-25	176	165	DNA	150	178	124	226	DNA	170	198	199	164	187
14-02-25	179	165	DNA	178	166	169	185	DNA	182	180	193	171	184
15-02-25	223	172	DNA	203	151	183	237	117	197	203	234	198	194
16-02-25	229	185	DNA	182	163	161	236	DNA	233	201	213	216	253
17-02-25	214	192	DNA	190	166	152	229	DNA	206	197	196	195	201
18-02-25	206	197	254	174	168	134	247	DNA	242	230	189	194	198
19-02-25	248	191	258	288	156	162	243	DNA	240	274	373	161	216
20-02-25	269	179	260	247	157	159	250	DNA	265	232	180	161	215
21-02-25	220	187	253	310	160	155	199	DNA	256	248	195	197	227
22-02-25	209	203	212	DNA	181	141	198	DNA	205	265	223	154	232
23-02-25	200	170	183	170	162	133	174	DNA	187	181	170	137	172
24-02-25	178	169	DNA	197	132	172	178	DNA	183	174	263	140	177
25-02-25	189	163	197	192	156	162	199	DNA	194	187	258	117	184
26-02-25	188	167	252	245	158	169	195	DNA	226	184	237	160	199
27-02-25	195	208	208	226	166	191	269	DNA	250	174	247	189	197
28-02-25	271	223	269	265	166	181	265	DNA	287	189	185	224	212

Table 7: Graphical representation of Gaseous and Particulate matter.



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