



Air Quality Monthly Report

March, 2024



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

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Introduction:

Department of Environment (DoE), Bangladesh has been 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

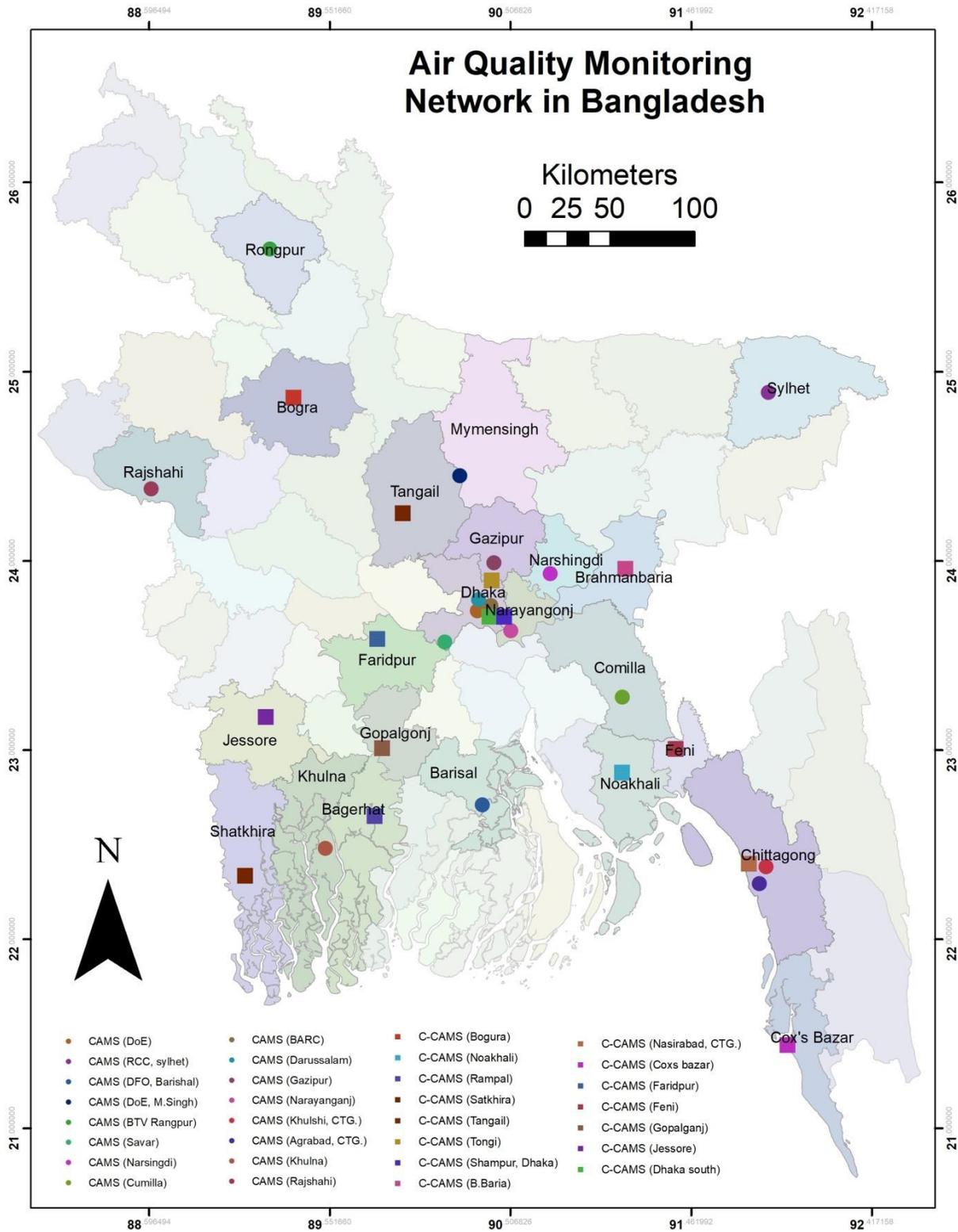
| Pollutant | Limit Value | Averaging time |
|-------------------|------------------------|-----------------------|
| CO | 5 mg/m ³ | 8 hours ^a |
| | 20 mg/m ³ | 1 hour ^a |
| Pb | 0.25 µg/m ³ | Annual |
| | 0.50 µg/m ³ | 24 hours |
| NO _x | 40 µg/m ³ | Annual |
| | 80 µg/m ³ | 24 hours |
| PM ₁₀ | 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 | | Annual |
| | 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 | ভালো | Green |
| 51-100 | Moderate | মোটামুটি | Yellow Green |
| 101-150 | Caution | সতর্কতামূলক | Yellow |
| 151-200 | Unhealthy | মোটামুটি অস্বাস্থ্যকর | Orange |
| 201-300 | Very Unhealthy | খুব অস্বাস্থ্যকর | Red |
| 301-500 | Extremely Unhealthy/Hazardous | অত্যন্ত অস্বাস্থ্যকর | Purple |

Location Map of Air Monitoring Station

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 | | 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 ₁₀ , PM _{2.5} , SO ₂ , CO, O ₃ & NO _x 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.Barua (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 March, 2024

Table 5 Summary of components_ Month of March, 2024

| Parameter | Summary | DoE | BARC | Darus-salam, Dhaka | Gazipur | Narayanganj | TV-Station, Chattogram | Agrabad, Chattogram | Sylhet | Khulna | Rajshahi | Barisal | Savar | Mymensingh | Rangpur | Cumilla | Narshingdi | |
|-------------------------|-----------------|--------|--------|--------------------|---------|-------------|------------------------|---------------------|--------|--------|----------|---------|-------|------------|---------|---------|------------|-----|
| SO ₂ -24 hr | Average | 9.9 | 1.9 | 11.2 | 0.0 | DNA | 5.1 | 8.6 | 9.1 | 3.9 | 9.3 | 12.0 | 1.7 | 8.2 | 7.0 | 4.6 | 4.1 | |
| | Max | 13.8 | 7.3 | 11.4 | 14.9 | DNA | 11.4 | 11.1 | 14.5 | 7.3 | 10.0 | 13.7 | 3.3 | 11.8 | 10.3 | 5.6 | 18.7 | |
| | Min | 6.4 | 0.5 | 11.1 | 11.2 | DNA | 2.1 | 6.4 | 5.9 | 1.5 | 8.8 | 11.0 | 0.9 | 1.4 | 3.9 | 4.1 | 0.5 | |
| | Excedance(Days) | 0.0 | 0.0 | 0.0 | 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(%) | 64.5 | 100.0 | 96.8 | 80.6 | DNA | 87.1 | 87.1 | 100.0 | 96.8 | 12.9 | 100.0 | 90.3 | 77.4 | 93.5 | 96.8 | 100.0 | |
| NO ₂ -24 hr | Average | 7.9 | DNA | 3.3 | 0.5 | DNA | 4.0 | 10.6 | DNA | 1.8 | 0.6 | 5.4 | 3.9 | 1.5 | 5.5 | 8.3 | 2.1 | |
| | Max | 13.5 | DNA | 6.9 | 7.3 | DNA | 4.3 | 13.2 | DNA | 2.0 | 0.9 | 11.3 | 3.9 | 1.9 | 7.6 | 12.9 | 2.8 | |
| | Min | 1.3 | DNA | 0.7 | 0.2 | DNA | 3.9 | 8.4 | DNA | 1.6 | 0.2 | 1.9 | 3.9 | 1.0 | 1.4 | 5.3 | 1.9 | |
| | Excedance(Days) | 0.0 | DNA | 0.0 | 0.0 | DNA | 0.0 | 0.0 | DNA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | Data capture(%) | 100.0 | DNA | 100.0 | 93.5 | DNA | 83.9 | 83.9 | DNA | 100.0 | 67.7 | 100.0 | 100.0 | 90.3 | 67.7 | 100.0 | 100.0 | |
| CO-8hr | Average | 1.2 | 1.4 | DNA | 1.1 | 0.5 | DNA | 3.5 | DNA | DNA | DNA | DNA | 1.1 | 1.5 | 1.6 | 2.6 | 1.3 | |
| | Max | 1.3 | 3.1 | DNA | 3.3 | 0.7 | DNA | 3.9 | DNA | DNA | DNA | DNA | 2.7 | 3.1 | 3.3 | 3.5 | 2.7 | |
| | Min | 1.1 | 0.5 | DNA | 0.9 | 0.4 | DNA | 2.9 | DNA | DNA | DNA | DNA | 0.4 | 0.5 | 0.0 | 1.6 | 0.9 | |
| | Excedance(Hour) | 0.0 | 0.0 | DNA | 0.0 | 0.0 | DNA | 0.0 | DNA | DNA | DNA | DNA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | Data capture(%) | 99.1 | 93.4 | DNA | 90.1 | 91.8 | DNA | 36.0 | DNA | DNA | DNA | DNA | 99.1 | 88.6 | 99.5 | 99.1 | 99.1 | |
| O ₃ -8hr | Average | DNA | 8.5 | 4.3 | 7.8 | 2.2 | 16.1 | 2.4 | 13.1 | 12.8 | 14.2 | DNA | 9.8 | 8.0 | 13.8 | 10.0 | 8.7 | |
| | Max | DNA | 26.1 | 4.4 | 13.4 | 2.9 | 29.9 | 2.8 | 18.6 | 27.1 | 15.4 | DNA | 20.1 | 24.5 | 29.8 | 29.9 | 28.5 | |
| | Min | DNA | 0.3 | 4.1 | 5.2 | 0.2 | 5.9 | 0.7 | 0.1 | 6.3 | 13.0 | DNA | 0.7 | 0.6 | 0.4 | 0.5 | 0.3 | |
| | Excedance(Hour) | DNA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | DNA | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | Data capture(%) | DNA | 99.1 | 99.1 | 47.3 | 62.6 | 78.6 | 16.5 | 41.9 | 98.9 | 1.2 | DNA | 99.1 | 88.2 | 86.0 | 98.8 | 97.0 | |
| PM _{2.5} -24hr | Average | 92.1 | 89.8 | 117.6 | 112.1 | 126.9 | 20.2 | 81.8 | 74.4 | 69.2 | 52.0 | 128.2 | 113.5 | 136.8 | 120.6 | 127.2 | 88.1 | |
| | Max | 151.1 | 130.7 | 185.5 | 229.0 | 239.9 | 37.3 | 132.4 | 122.3 | 137.8 | 94.3 | 190.5 | 189.7 | 275.3 | 182.5 | 218.4 | 173.2 | |
| | Min | 31.3 | 39.8 | 53.7 | 38.2 | 29.7 | 5.0 | 42.3 | 52.8 | 18.8 | 20.1 | 93.9 | 44.1 | 56.3 | 51.0 | 54.8 | 46.1 | |
| | Excedance(Days) | 27.0 | 28.0 | 27.0 | 25.0 | 21.0 | 0.0 | 17.0 | 13.0 | 16.0 | 7.0 | 31.0 | 29.0 | 27.0 | 29.0 | 26.0 | 23.0 | |
| | Data capture(%) | 100.0 | 100.0 | 90.3 | 93.5 | 96.8 | 12.9 | 87.1 | 71.0 | 100.0 | 58.1 | 100.0 | 100.0 | 90.3 | 100.0 | 100.0 | 100.0 | |
| PM ₁₀ -24hr | Average | 172.2 | 201.1 | 188.6 | 196.2 | 188.6 | 156.1 | 188.6 | 182.8 | 111.5 | 132.9 | 231.1 | 164.9 | 225.5 | 223.6 | 154.0 | DNA | |
| | Max | 285.1 | 283.4 | 293.2 | 381.2 | 303.6 | 200.8 | 327.2 | 294.7 | 188.7 | 229.2 | 326.6 | 331.8 | 404.9 | 410.7 | 318.5 | DNA | |
| | Min | 64.1 | 111.5 | 77.3 | 69.0 | 69.1 | 72.0 | 80.0 | 110.5 | 35.6 | 62.4 | 175.8 | 13.6 | 97.5 | 65.1 | 53.3 | DNA | |
| | Excedance(Days) | 18.0 | 26.0 | 21.0 | 17.0 | 16.0 | 5.0 | 17.0 | 24.0 | 9.0 | 11.0 | 29.0 | 20.0 | 22.0 | 23.0 | 16.0 | DNA | |
| | Data capture(%) | 100.0 | 100.0 | 100.0 | 93.5 | 93.5 | 22.6 | 87.1 | 100.0 | 100.0 | 74.2 | 93.5 | 100.0 | 90.3 | 87.1 | 100.0 | DNA | |
| Solar rad. 1hr | Average | 135.86 | 283.16 | 155.4 | 12.1 | DNA | 505.0 | 169.3 | DNA | 404.7 | 124.1 | 55.6 | 312.1 | 269.4 | 368.3 | 275.9 | DNA | |
| | Max | 702.13 | 817.2 | 1019.9 | 15.8 | DNA | 645.8 | 733.8 | DNA | 1000.0 | 680.1 | 351.8 | 908.4 | 853.0 | 954.4 | 795.3 | DNA | |
| | Min | 21.56 | 0.1 | 999.8 | 11.0 | DNA | 27.6 | 9.1 | DNA | 0.0 | 8.4 | 8.3 | 0.0 | 0.0 | 0.1 | 0.0 | DNA | |
| | Data capture(%) | 99.06 | 44 | 91 | 87 | DNA | 86 | 64 | DNA | 86 | 99 | 96 | 61.0 | 40.1 | 55.1 | 59.0 | DNA | |
| Relative Humidity 1hr | Average | 55.55 | 56.8 | 61.0 | DNA | DNA | 60.3 | 61.7 | DNA | 74.5 | 76.7 | 67.3 | 60.6 | 75.3 | 74.1 | 52.5 | DNA | |
| | Max | 87.97 | 100.0 | 93.2 | DNA | DNA | 99.2 | 98.7 | DNA | 79.1 | 88.0 | 75.3 | 99.4 | 99.4 | 99.7 | 94.2 | DNA | |
| | Min | 17.60 | 21.5 | 25.5 | DNA | DNA | 51.3 | 16.1 | DNA | 59.8 | 59.7 | 58.4 | 16.5 | 24.8 | 26.2 | 17.1 | DNA | |
| | Data capture(%) | 99.06 | 62.9 | 99.9 | DNA | DNA | 79 | 63 | DNA | 96 | 99 | 96 | 98.9 | 73.5 | 99.2 | 1.2 | DNA | |
| Ambient Temp. 1hr | Average | 25.82 | 22.9 | 25.5 | DNA | DNA | 26.6 | 23.2 | DNA | 27.2 | 27.0 | 15.1 | 24.4 | 23.2 | 22.7 | 24.4 | DNA | |
| | Max | 42.89 | 30.4 | 31.8 | DNA | DNA | 39.6 | 42.8 | DNA | 35.6 | 38.5 | 28.6 | 32.9 | 31.4 | 32.0 | 32.9 | DNA | |
| | Min | 7.08 | 14.8 | 7.4 | DNA | DNA | 8.7 | 7.2 | DNA | 19.1 | 15.1 | 7.1 | 15.9 | 15.7 | 14.4 | 15.9 | DNA | |
| | Data capture(%) | 83.74 | 73.0 | 86 | DNA | DNA | 84 | 30 | DNA | 95 | 99 | 94 | 98.9 | 72.7 | 98.7 | 97.0 | DNA | |
| Rainfall 1hr | Average | DNA | 3.01 | 0.2 | 0.2 | DNA | DNA | DNA | DNA | 18.2 | 0.4 | 0.3 | 0.0 | 2.6 | 0.1 | 0.0 | DNA | |
| | Max | DNA | 7.3 | 0.2 | 0.8 | DNA | DNA | DNA | DNA | 26.0 | 1.0 | 0.8 | 0.2 | 25.8 | 0.4 | 0.0 | DNA | |
| | Min | DNA | 0.0 | 0.2 | 0.0 | DNA | DNA | DNA | DNA | 13.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | DNA | |
| | Data capture(%) | DNA | 12.0 | 100 | 42 | DNA | DNA | DNA | DNA | 1 | 98 | 89 | 2.3 | 2.2 | 1.9 | 0.4 | DNA | |

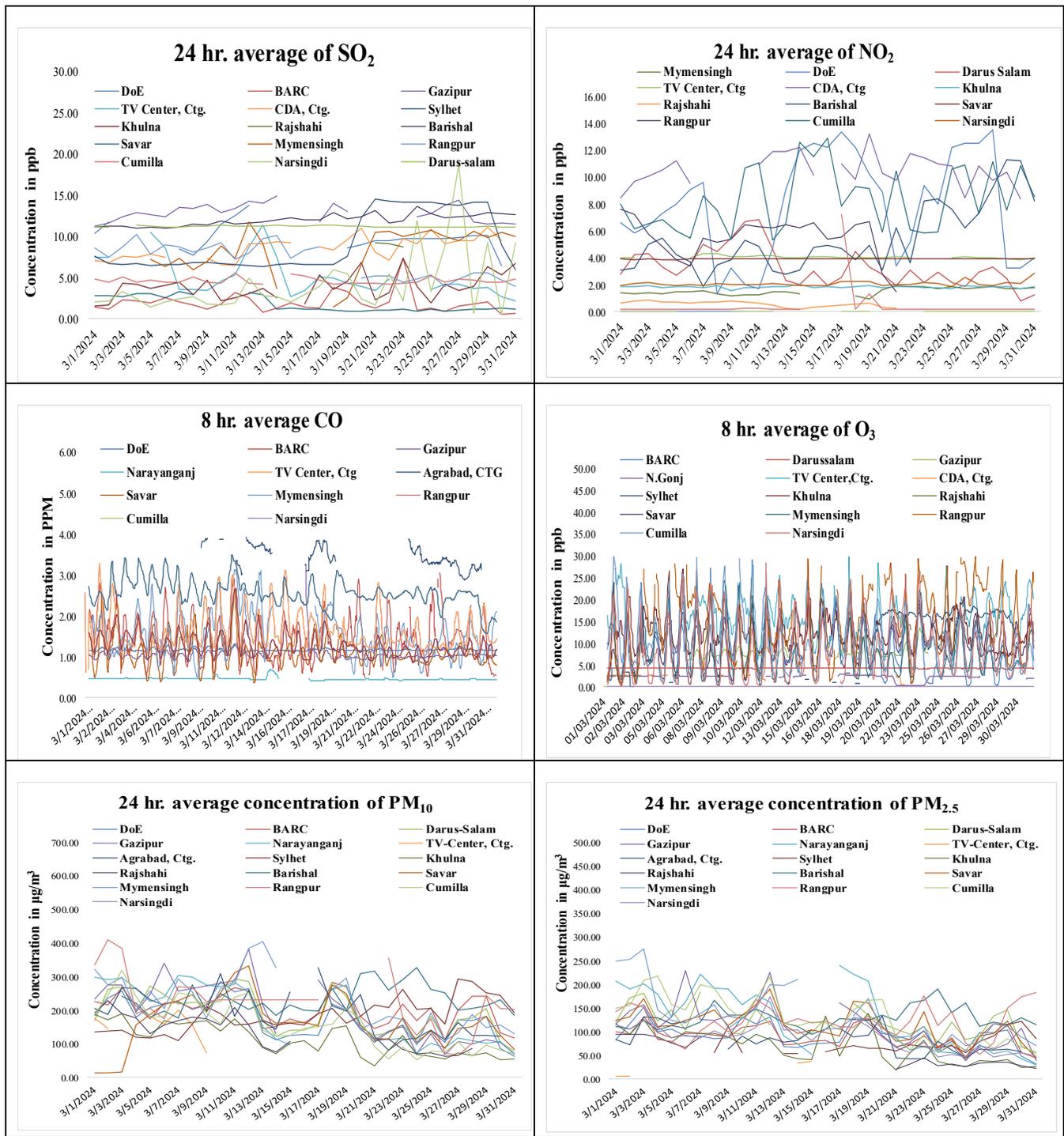
CAMS= Continuous Air Monitoring Station, NAAQS=National Ambient Air Quality Standard, a=Refurbishment CAMS, PM= Particulate Matter

DNA= Data Not Available

Table 6 Air Quality Index (AQI)_ Month of March, 2024

| Date | Dhaka | Chittagong | Gazipur | Narayangonj | Sylhet | Khulna | Rajshahi | Barisal | Savar | Mymensingh | Rangpur | Cumilla | Norshindi |
|-----------|-------|------------|---------|-------------|--------|--------|----------|---------|-------|------------|---------|---------|-----------|
| 3/1/2024 | 173 | 132 | 179 | 245 | DNA | 187 | 171 | 164 | 190 | 300 | 201 | 224 | 181 |
| 3/2/2024 | 175 | 126 | 203 | 247 | DNA | 202 | 179 | 186 | 192 | 301 | 212 | DNA | 176 |
| 3/3/2024 | 214 | 196 | 214 | 263 | DNA | 181 | 186 | 171 | 226 | 324 | 216 | 246 | 188 |
| 3/4/2024 | 173 | 196 | 171 | 247 | DNA | 161 | 158 | 166 | 174 | 213 | 163 | 265 | 158 |
| 3/5/2024 | 174 | 148 | 192 | 196 | DNA | 155 | 138 | 155 | 180 | 173 | 160 | 207 | DNA |
| 3/6/2024 | 176 | 142 | 268 | 221 | DNA | 170 | 148 | 142 | 192 | 192 | 154 | 203 | 170 |
| 3/7/2024 | 202 | 123 | 195 | 270 | DNA | 168 | 178 | 171 | 203 | 192 | 176 | 242 | 166 |
| 3/8/2024 | 166 | 104 | 186 | 246 | DNA | 173 | 192 | 112 | 201 | 247 | 183 | 254 | 175 |
| 3/9/2024 | 168 | 137 | 191 | 240 | DNA | 167 | 170 | 109 | 180 | 177 | 173 | 200 | 167 |
| 3/10/2024 | 185 | 145 | 180 | 213 | DNA | 175 | 174 | 101 | 169 | 187 | 182 | 182 | 171 |
| 3/11/2024 | 193 | 152 | 214 | 222 | DNA | 152 | 185 | 102 | 212 | 199 | 223 | 212 | 178 |
| 3/12/2024 | 196 | 191 | 265 | 231 | DNA | 147 | 204 | 86 | 246 | 230 | 220 | 267 | 223 |
| 3/13/2024 | 139 | 159 | 187 | 173 | DNA | 134 | 162 | 68 | 177 | 244 | 181 | 182 | 175 |
| 3/14/2024 | 158 | 131 | 166 | 178 | DNA | 118 | 178 | 63 | 171 | 271 | 197 | 178 | 176 |
| 3/15/2024 | 161 | 156 | DNA | DNA | DNA | 113 | 174 | DNA | 178 | DNA | 184 | 167 | 162 |
| 3/16/2024 | 174 | DNA | DNA | DNA | DNA | 188 | 163 | DNA | 173 | DNA | 193 | 182 | 177 |
| 3/17/2024 | 136 | 179 | DNA | DNA | DNA | 103 | 141 | DNA | 167 | DNA | 180 | 171 | 177 |
| 3/18/2024 | 196 | 163 | 209 | 279 | DNA | 171 | 181 | DNA | 222 | 186 | 182 | 209 | 189 |
| 3/19/2024 | 191 | 170 | 191 | 293 | DNA | 211 | 151 | DNA | 223 | 214 | 192 | 216 | 179 |
| 3/20/2024 | 182 | 177 | 172 | 181 | DNA | 129 | 151 | DNA | 197 | 172 | 167 | 236 | 167 |
| 3/21/2024 | 159 | 122 | 142 | 163 | DNA | 69 | 50 | 81 | 163 | 146 | 180 | 141 | 167 |
| 3/22/2024 | 157 | 117 | 157 | 175 | DNA | 144 | 110 | 95 | 159 | 159 | 185 | 148 | 148 |
| 3/23/2024 | 178 | 112 | 193 | 160 | 76 | 145 | 99 | 128 | 197 | 154 | 239 | 171 | 160 |
| 3/24/2024 | 150 | 116 | 127 | 183 | 65 | 69 | 68 | 84 | 154 | 146 | 180 | 141 | 132 |
| 3/25/2024 | 171 | 151 | 156 | 131 | 95 | 86 | 101 | 92 | 166 | 169 | 198 | 155 | 142 |
| 3/26/2024 | 133 | 117 | 106 | 119 | 96 | 90 | 142 | 80 | 121 | 147 | 160 | 140 | 128 |
| 3/27/2024 | 165 | 140 | 171 | 151 | 77 | 115 | 166 | 91 | 169 | 162 | 136 | 166 | 156 |
| 3/28/2024 | 186 | 140 | 152 | 137 | 113 | 96 | 140 | 105 | 171 | 181 | 144 | 151 | 129 |
| 3/29/2024 | 190 | 141 | 161 | 140 | 95 | 132 | 178 | 128 | 184 | 179 | 231 | 165 | 142 |
| 3/30/2024 | 144 | 133 | 161 | 113 | 95 | 71 | 175 | 83 | 162 | 167 | 223 | 153 | 150 |
| 3/31/2024 | 119 | DNA | 175 | 97 | 64 | 87 | 168 | 75 | 122 | 157 | 240 | 129 | 122 |

Table 7 Graphical representation of Gaseous and Particulate matter.



CONTACT US

Call us: (+880)22218569;

E-mail us: aqm.doe@gmail.com

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

Know more about us: <http://www.doe.gov.bd/>