



Government of Nepal
Ministry of Forest and Environment
Department of Environment
Babarmahal, Kathmandu

Air Quality Status Of Nepal 2016-2020

Volume II

Lumbini Air Quality Monitoring Station



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1. Lumbini Air Quality Monitoring Station

- Address: In the premises of Lumbini Development Trust
- Location: 27.489522 Latitude, 83.279089 Longitude
- Surrounding of the station
 - East: Bishnupura Metallic Road
 - West: International Research Institute
 - North: Taulihawa Road and Greenland
 - South: Lumbini Development Trusts' employees quarter
- Establish year: 2016 (2074)
- Brief introduction of the instruments installed in the station
 1. PM instrument- GRIMM EDM 180
 2. Met sensor luffth WS 700
 3. Data logging and data transmission and power backup system

2. Air Quality Status of Lumbini Station (2016- 2020)

2.1 Air Quality Status, 2016

2.1.1 Annual average of PM₁, PM_{2.5}, and PM₁₀

Since, the data was generated from November 23, annual average of PM₁, PM_{2.5}, and PM₁₀ for the Lumbini station for 8-day period during November and 12-days period during December could not be calculated.

2.1.2 Temporal variation of PM₁

Annual average of PM₁

Annual PM₁ average for Lumbini Station could not be calculated.

Daily average of PM₁

Daily average concentration of PM₁ given in the figure below.

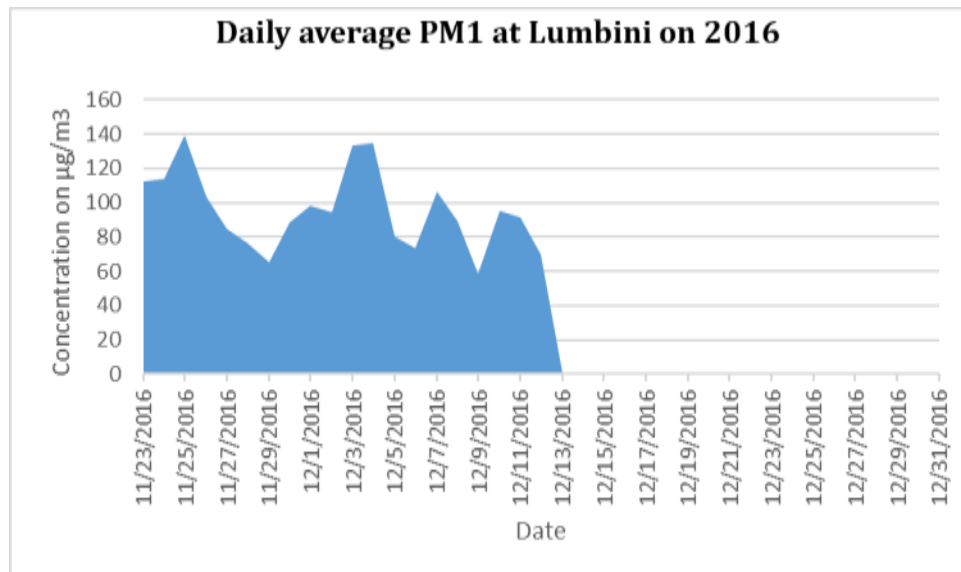


Figure 1: Daily average of PM₁

Monthly average of PM₁

Since, the data was generated from November 23, average for 8-day period during November and 12-days period during December is shown in the figure.

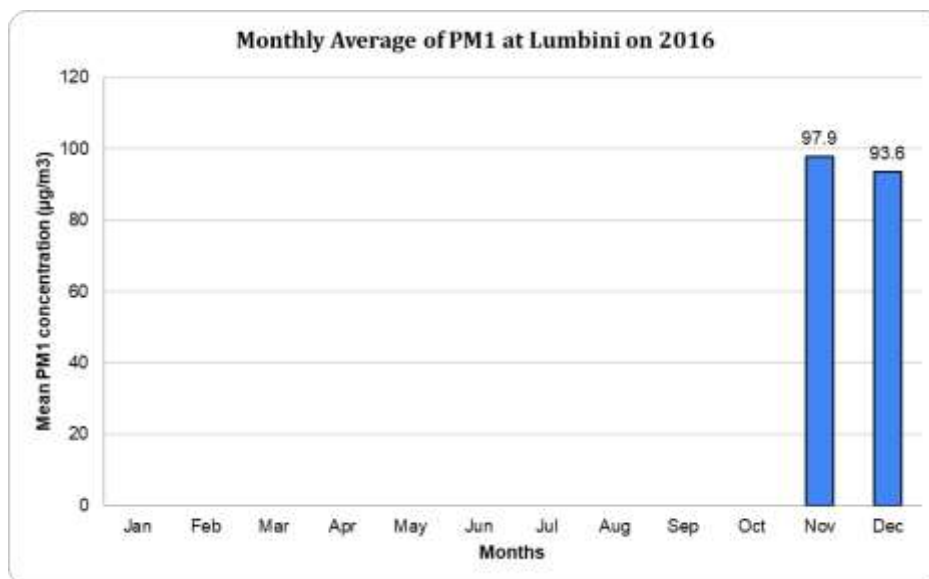


Figure 2: Monthly Average of PM₁

Monthly variation of PM₁

Due to lack of data monthly variation in concentration of PM₁ could not be calculated.

Seasonal variation of PM₁

Due to lack of data, seasonal variation could not be calculated.

Diurnal variation of PM₁

The diurnal variation of average PM₁ concentrations can be shown in the figure below. The variation in PM₁ concentration was high at around 9 pm and low at 4 am.

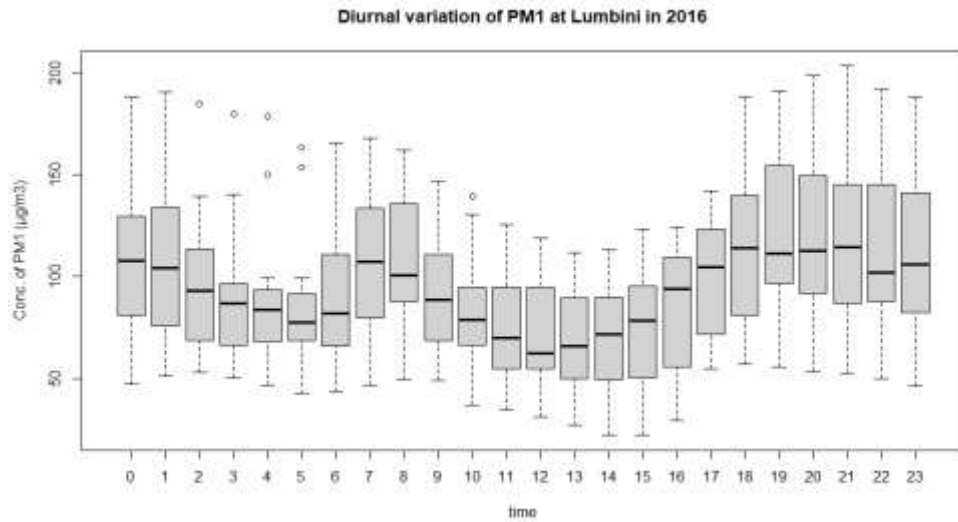


Figure 3: Diurnal Variation of PM₁

2.1.3 Temporal variation of PM_{2.5}

Annual average of PM_{2.5}

Due to lack of data, annual average of PM_{2.5} could not be calculated.

Daily average of PM_{2.5}

Daily average concentration of PM_{2.5} is shown in the figure below.

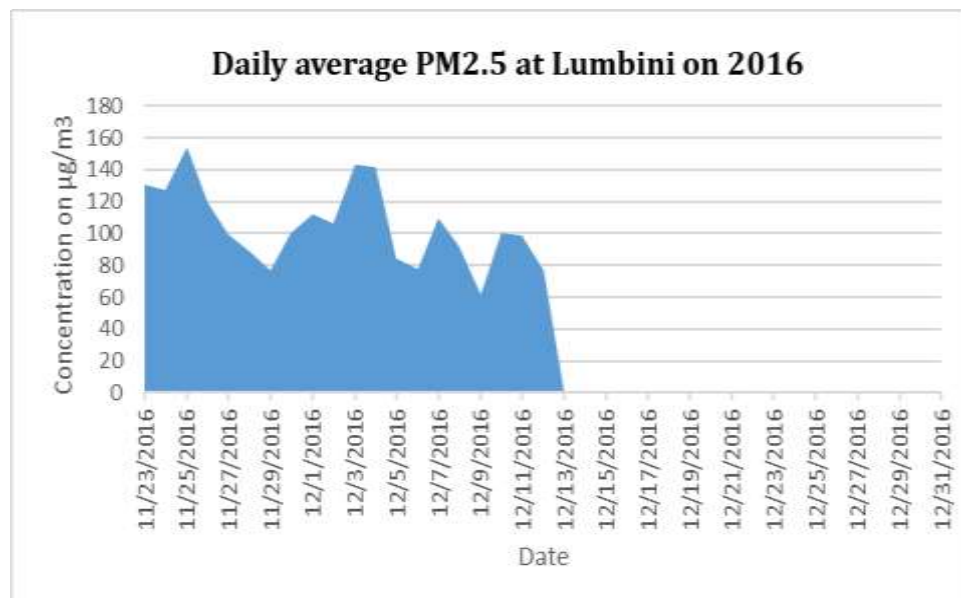


Figure 4: Daily average of PM_{2.5}

Monthly average of PM_{2.5}

Since, the data was generated from November 23, average for 8-day period during November and 12-days period during December for $PM_{2.5}$ is shown in the figure below

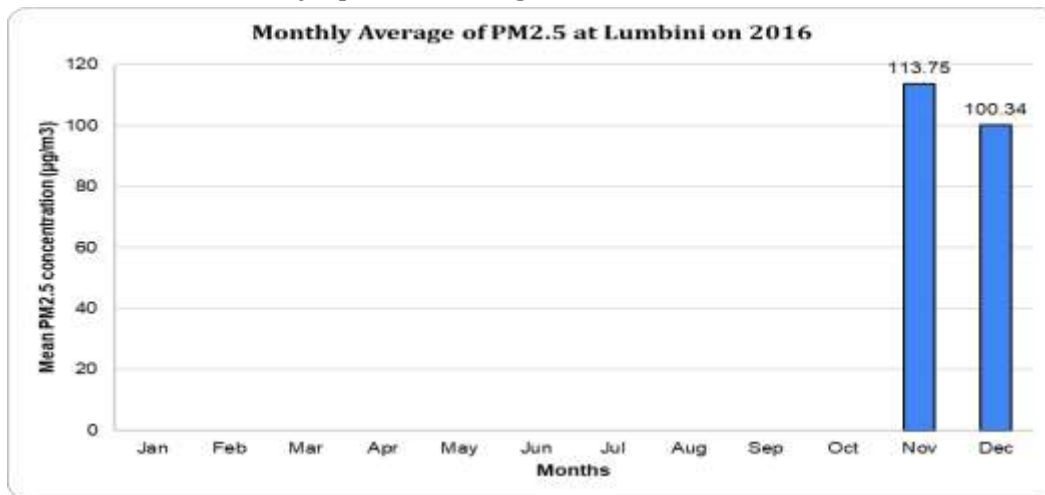


Figure 5.

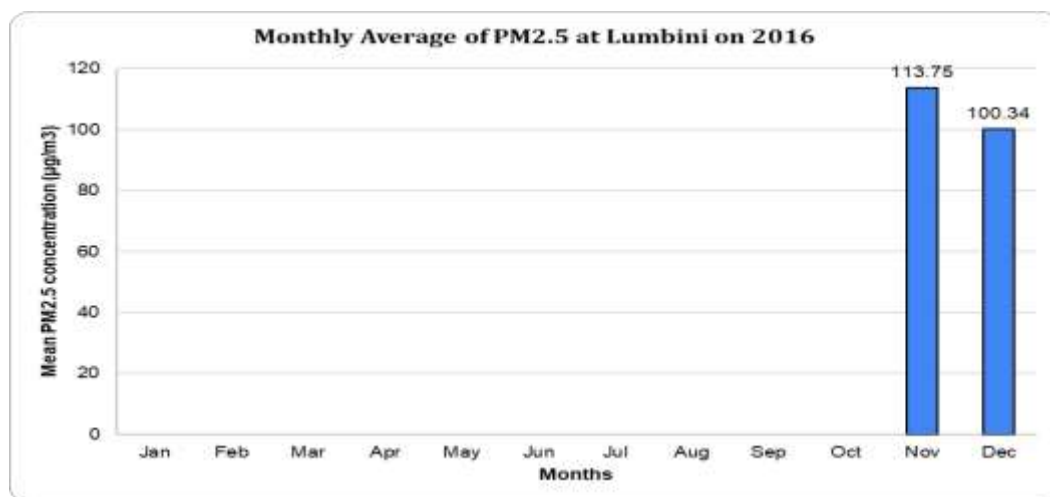


Figure 5: Monthly Average of $PM_{2.5}$

Monthly variation of $PM_{2.5}$

Due to lack of data variation in concentration of $PM_{2.5}$ was not calculated.

Seasonal variation of $PM_{2.5}$

Due to lack of data, seasonal variation of $PM_{2.5}$ could not be calculated.

Diurnal variation of $PM_{2.5}$

The diurnal variation of average $PM_{2.5}$ concentrations can be shown in the figure below. The variation in $PM_{2.5}$ concentrations was high at around 7 pm and low at 1pm.

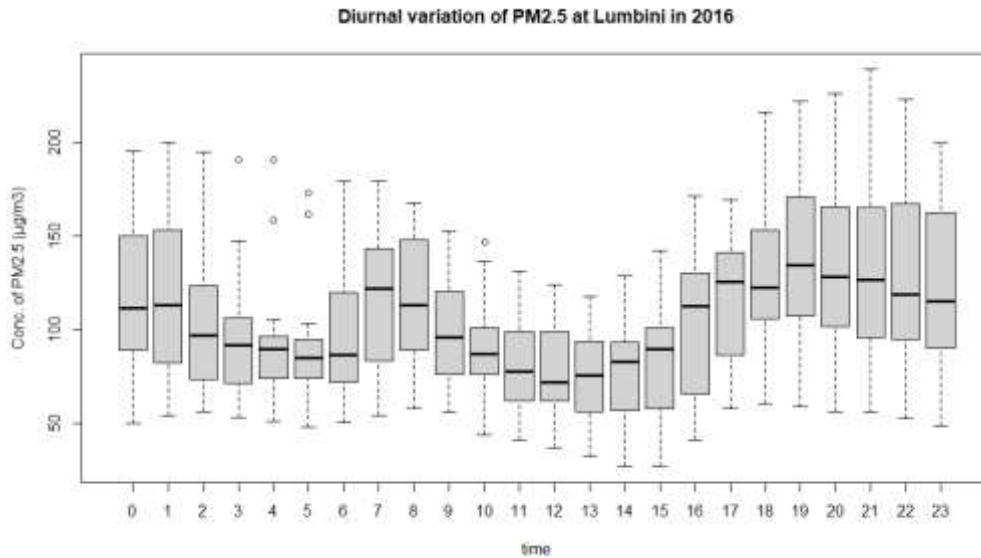


Figure 6: Diurnal Variation of PM_{2.5}

Compliance status of PM_{2.5}

The total days of PM_{2.5} monitored in the year 2016 counts 20, of which 20 days exceeded the NAAQS guideline.

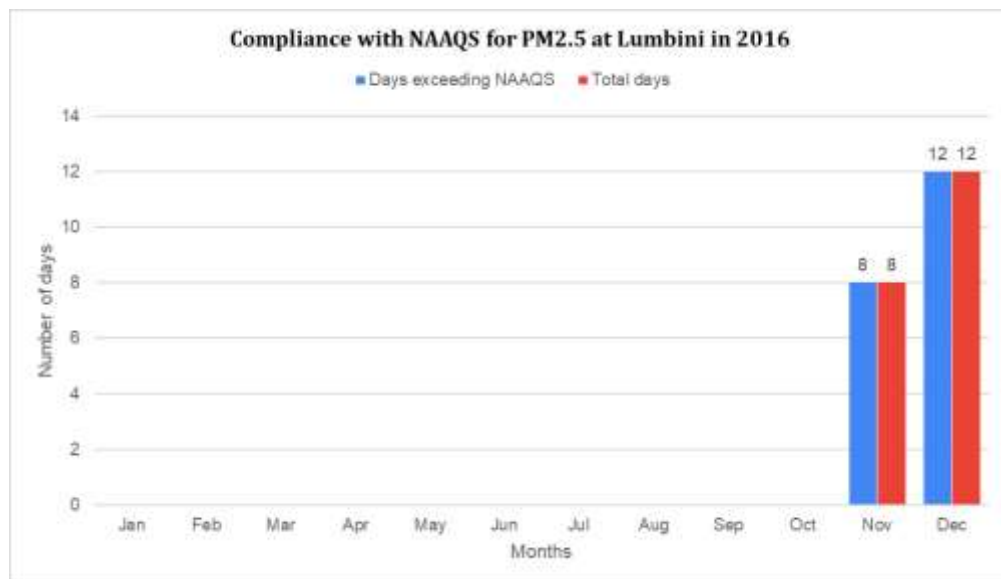


Figure 7: Compliance status of PM_{2.5}

2.1.4 For PM₁₀

Annual average of PM₁₀

Due to lack of data, PM₁₀ average annual average was not calculated.

Daily average of PM₁₀

Daily average concentration of PM_{2.5} given in the figure below.

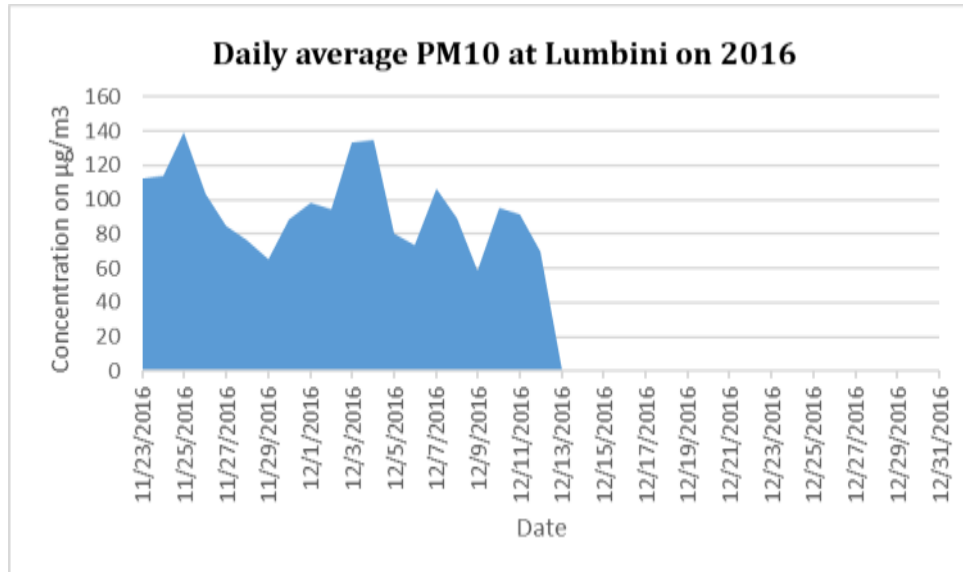


Figure 8: Daily average of PM₁₀

Monthly average of PM₁₀

Since, the data was generated from November 23, average for 8-day period during November and 12-days period during December for PM₁₀ is shown in the figure below.

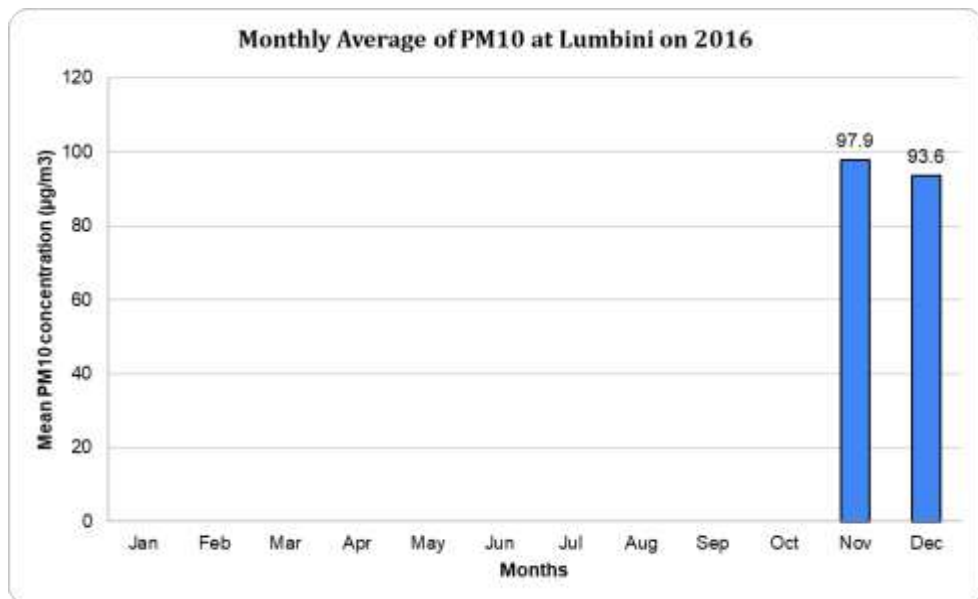


Figure 9: Monthly Average of PM₁₀

Monthly variation of PM₁₀

Due to lack of data, variation in concentration of PM₁₀ was not calculated.

Seasonal variation of PM₁₀

Due to lack of data, seasonal variation was not calculated.

Diurnal variation of PM₁₀

The diurnal variation of average PM₁₀ concentrations can be shown in the figure below. The variation in PM₁₀ concentration was high at around 7 pm and low at 5 am.

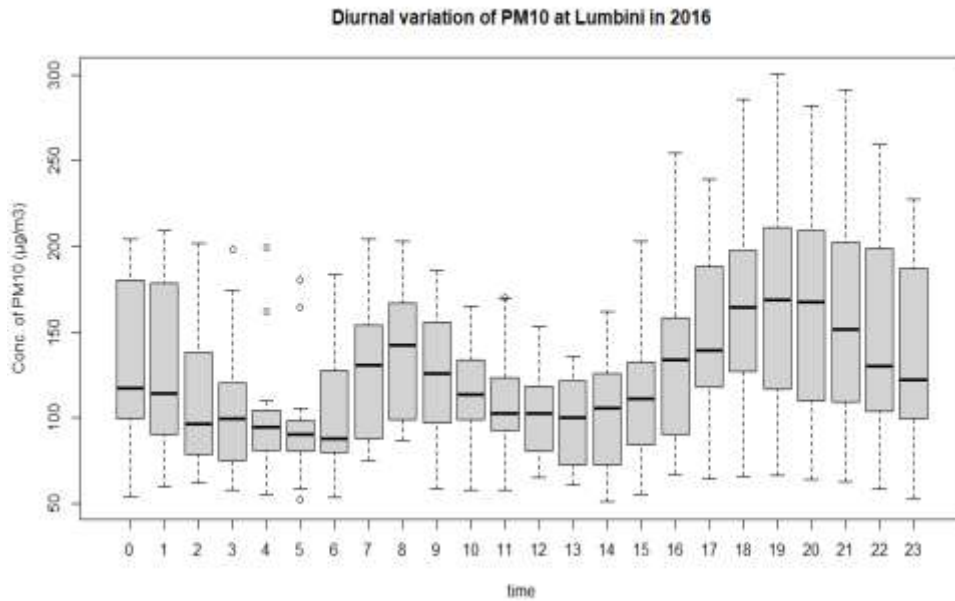


Figure 10: Diurnal Variation of PM₁₀

Compliance status of PM₁₀

The total days of PM₁₀ monitored in the year 2016 counts 20 of which 20 days exceed the NAAQS guideline.

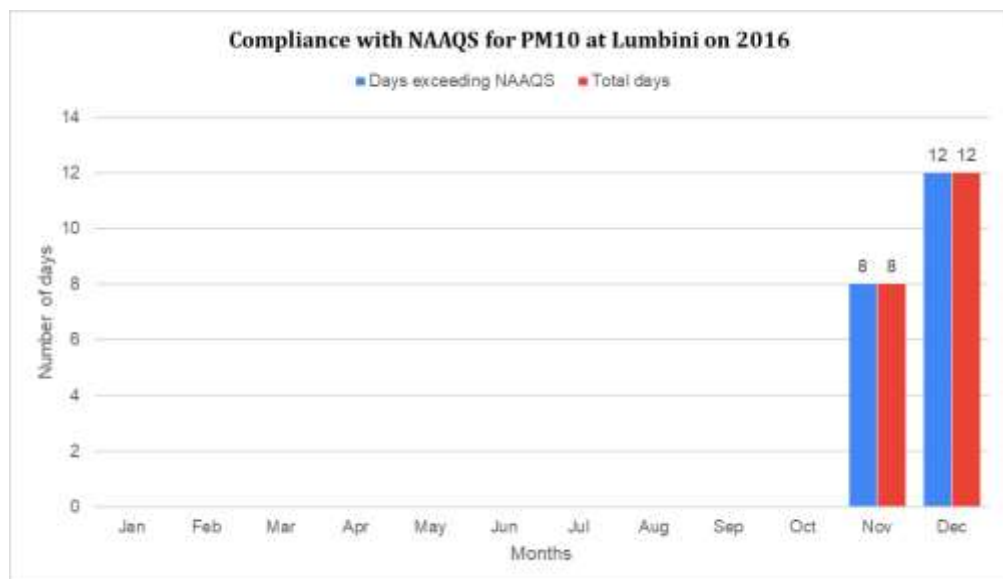


Figure 11: Compliance status of PM₁₀

2.2 Air Quality Status, 2017

2.2.1 Annual average of PM₁, PM_{2.5}, and PM₁₀

The annual average of PM₁, PM_{2.5}, and PM₁₀ for the Lumbini station was calculated as shown in the figure below **Error! Reference source not found.**

Figure 12: Annual average of PM₁, PM_{2.5}, and PM₁₀

2.2.2 Temporal variation of PM₁

Annual average of PM₁

The annual average for PM₁ for Lumbini Station was observed to be 46.57 µg/m³. Histogram of hourly average PM₁ is shown in the figure below.

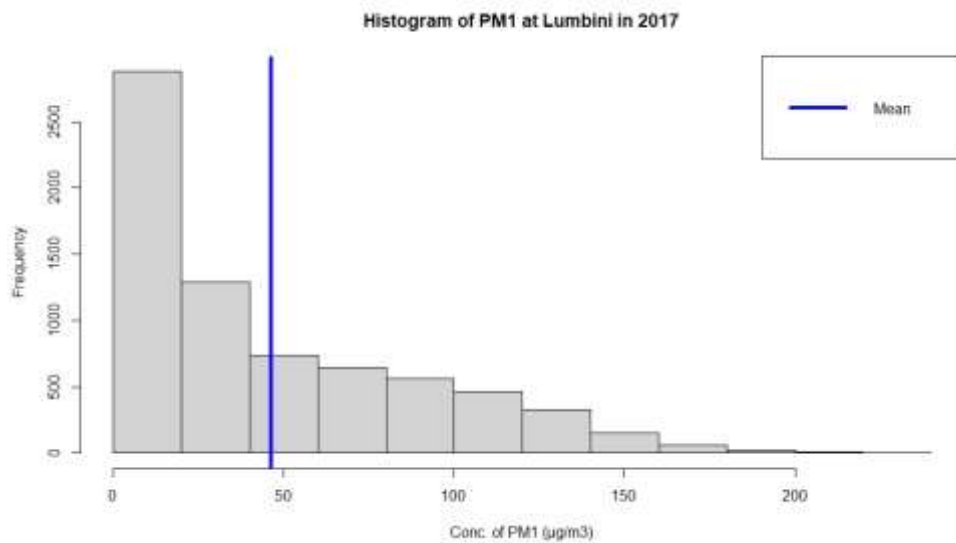


Figure 13 : Histogram of PM₁

Daily average of PM₁

Daily average concentration of PM₁ was high during January and was found low during July.

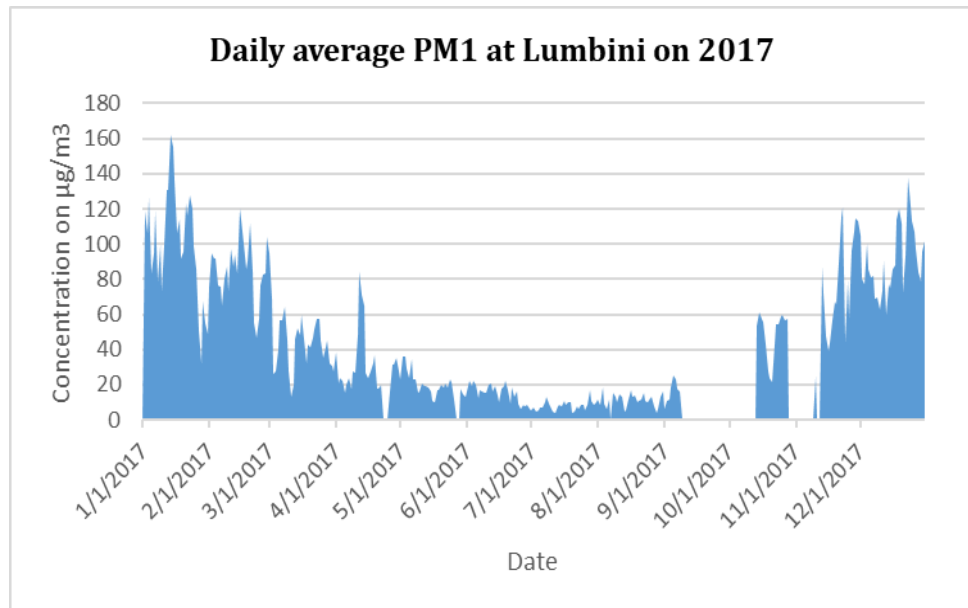


Figure 14: Daily average of PM₁

Monthly average of PM₁

The highest and the lowest monthly average of PM₁ was found during January (101.51 µg/m³) and July (7.92 µg/m³) respectively.

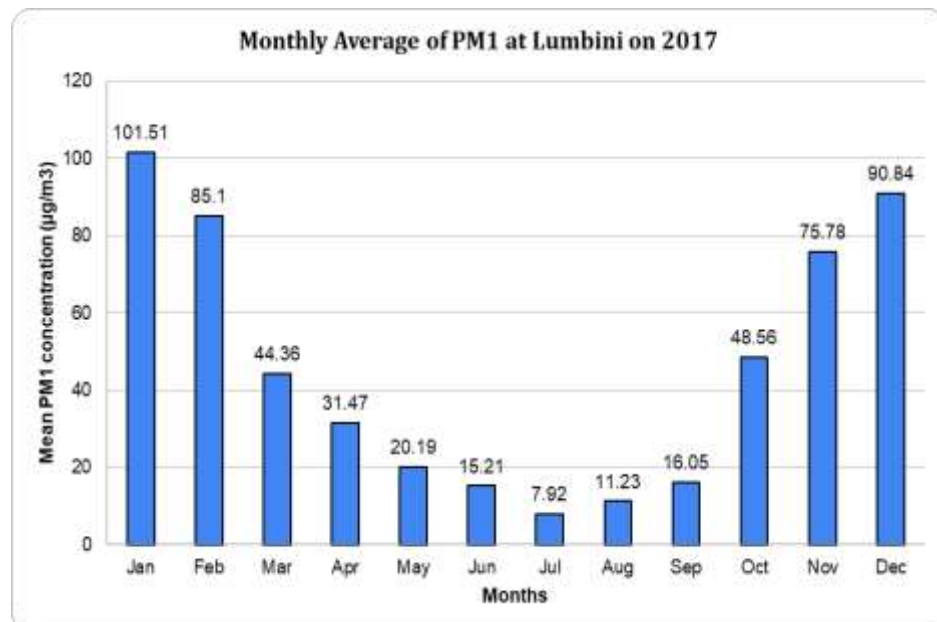


Figure 15: Monthly Average of PM₁

Monthly variation of PM₁

Variation in concentration of PM₁ was found high during January whereas low during July.

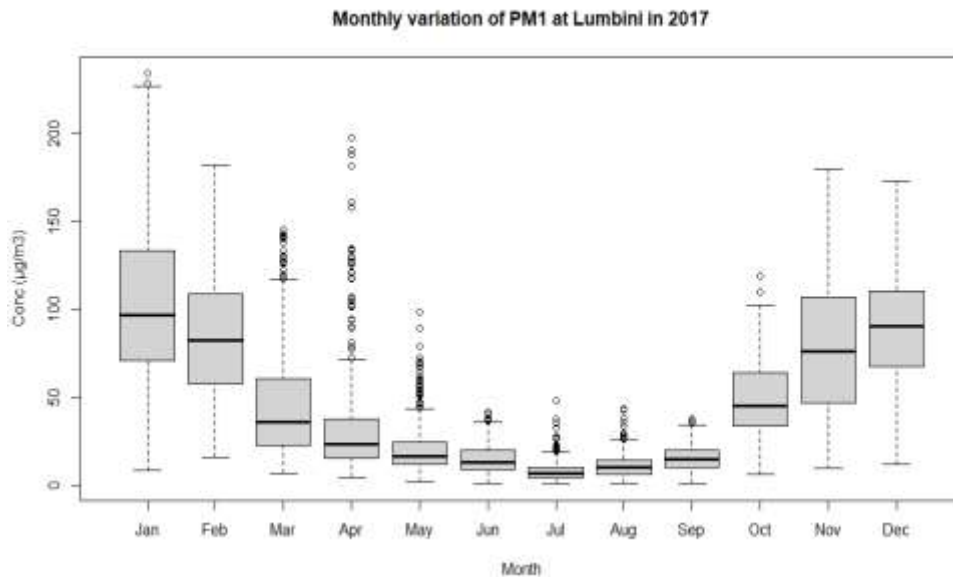


Figure 16: Monthly Variation of PM₁

Seasonal variation of PM₁

Ambient concentration of average PM₁ during Winter (December-February), Pre-monsoon (March-May), monsoon (June-September), and post-monsoon (October-November) can be shown in the figure below. The concentration of PM₁ was found higher during winter (93.39 µg/m³) and low during monsoon season (11.45 µg/m³)

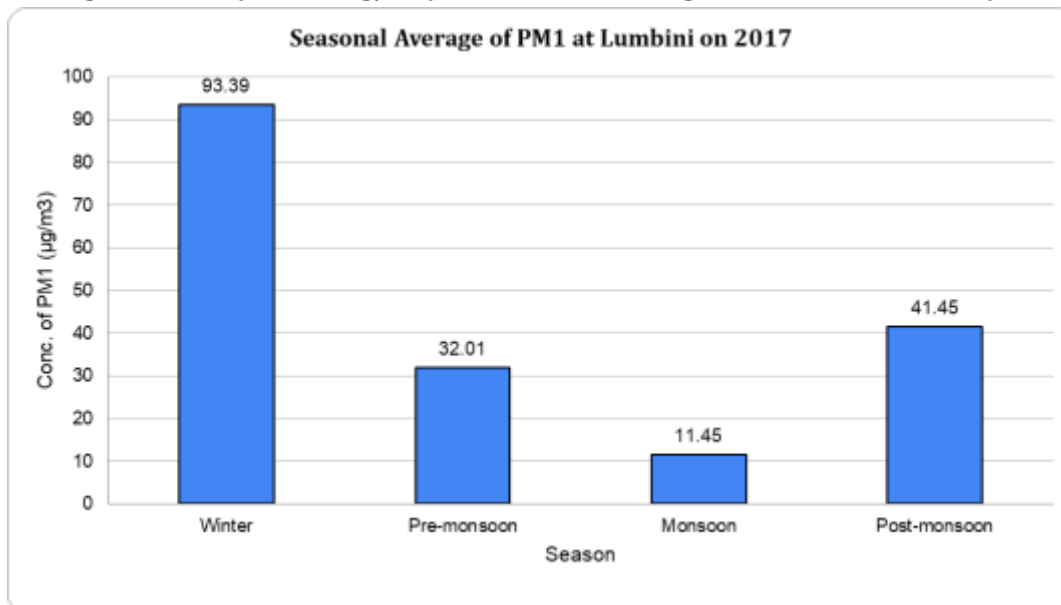


Figure 17: Seasonal variation of PM.

Figure

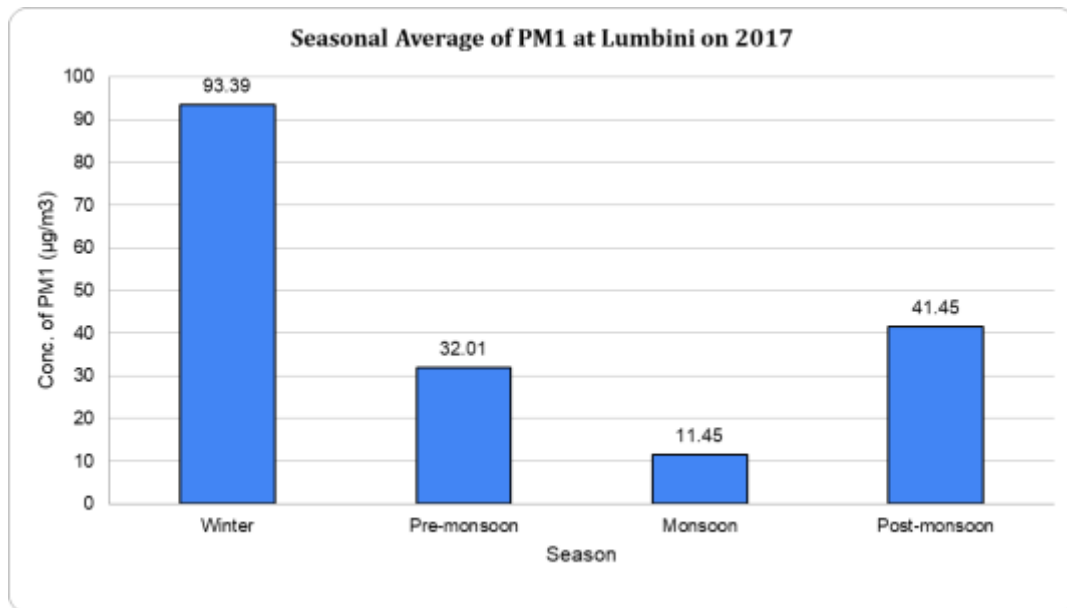


Figure 17: Seasonal variation of PM₁

Diurnal variation of PM₁

The diurnal variation of average PM₁ concentrations can be shown in the figure below. The variation in PM₁ concentration was high at around 7 am and low at 2 pm.

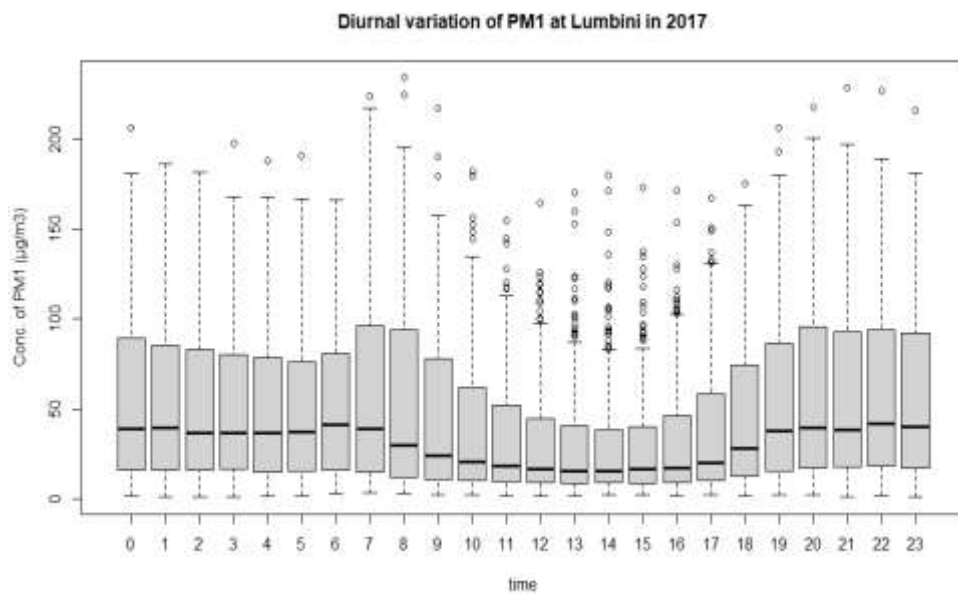


Figure 18: Diurnal Variation of PM₁

2.2.3 Temporal variation of PM_{2.5}

Annual average of PM_{2.5}

The annual average for PM_{2.5} for Lumbini Station was observed to be 52.49 µg/m³. Histogram of hourly average PM_{2.5} is shown in the figure below.

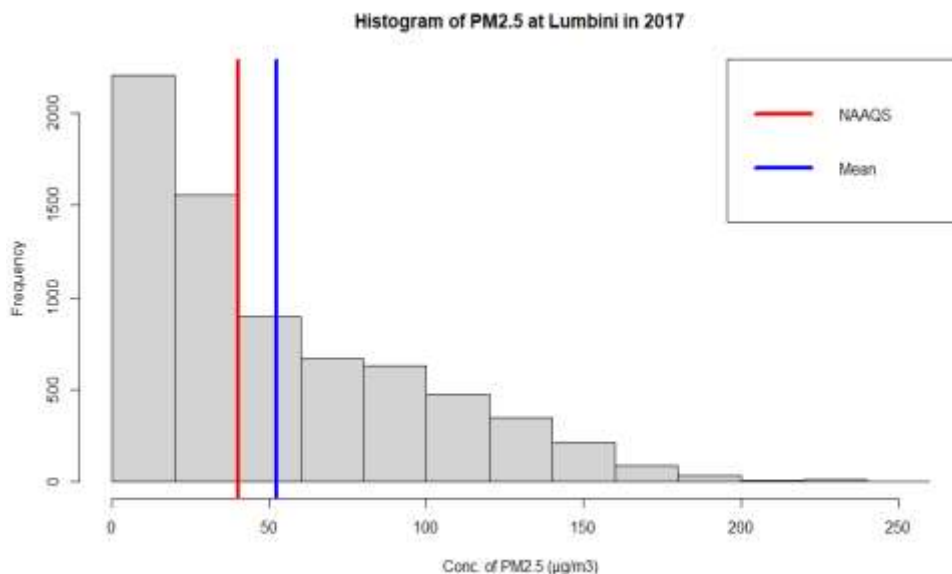


Figure 19 : Histogram of PM_{2.5}.

Daily average of PM_{2.5}

Daily average concentration of PM_{2.5} was high during January and low during July.

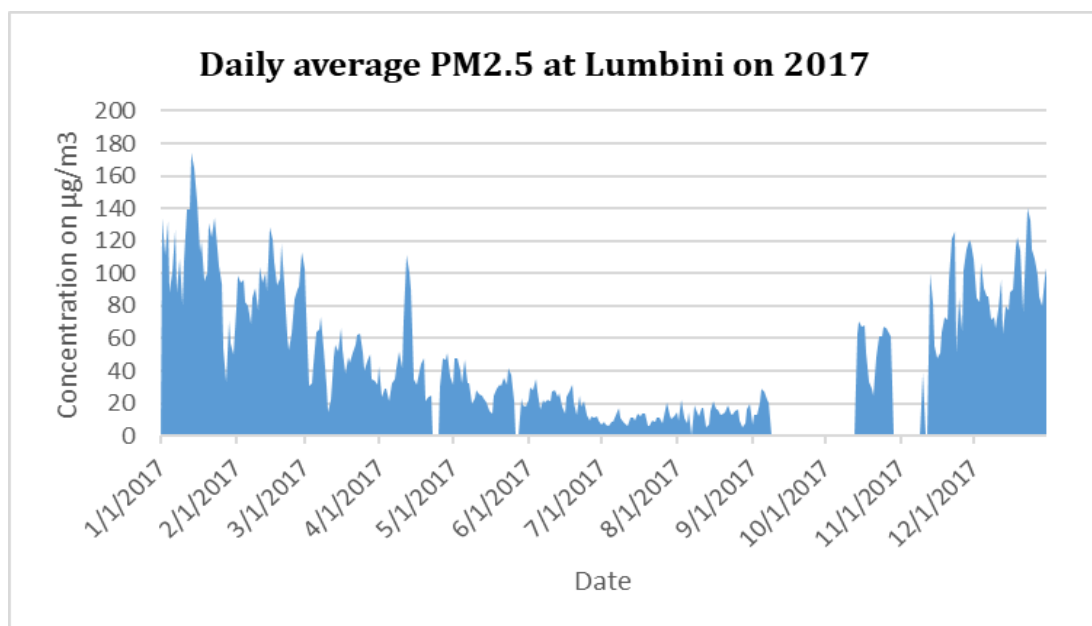


Figure 20: Daily average of PM_{2.5}

Monthly average of PM_{2.5}

The highest and the lowest monthly average of PM_{2.5} was found during January (108.15 µg/m³) and July (10.29 µg/m³) respectively.

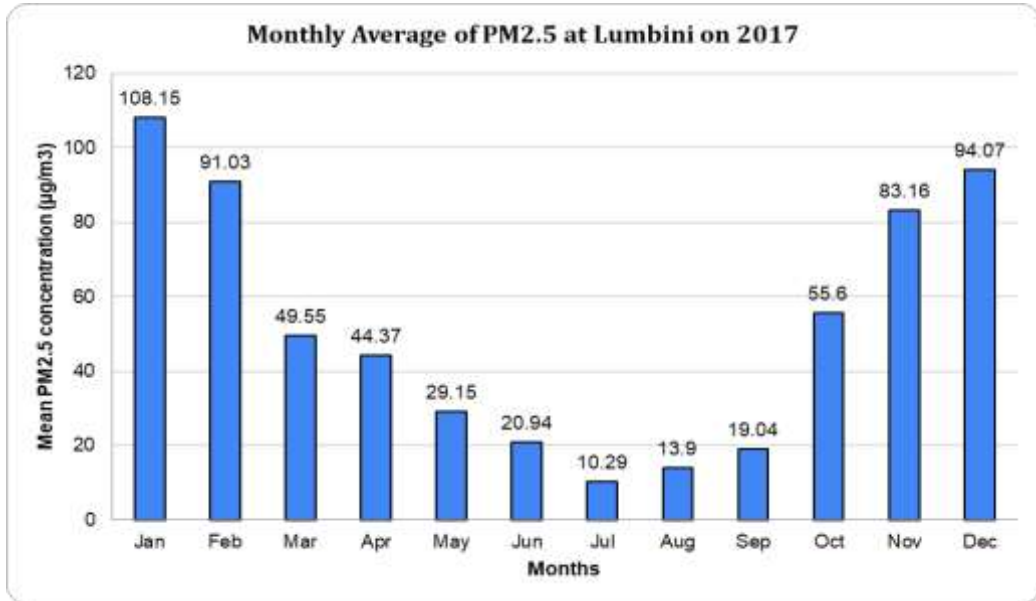


Figure 21: Monthly Average of PM_{2.5}

Monthly variation of PM_{2.5}

Variation in concentration of PM_{2.5} was found high during January and low during July.

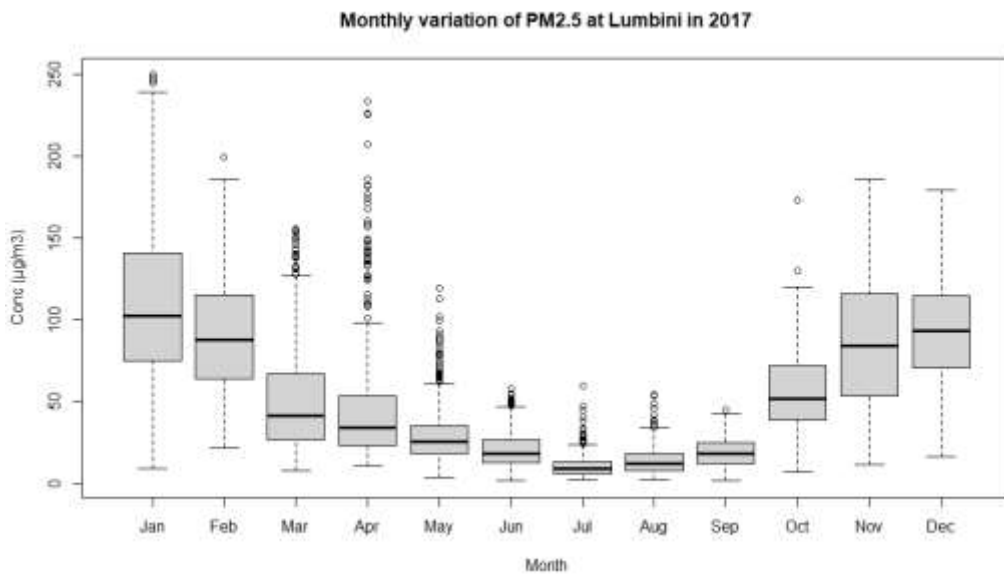


Figure 22: Monthly Variation of PM_{2.5}

Seasonal variation of PM_{2.5}

Ambient concentration of average PM_{2.5} during Winter (December-February), Pre-monsoon(March-May), monsoon (June-September), and post-monsoon (October-November) can be shown in the

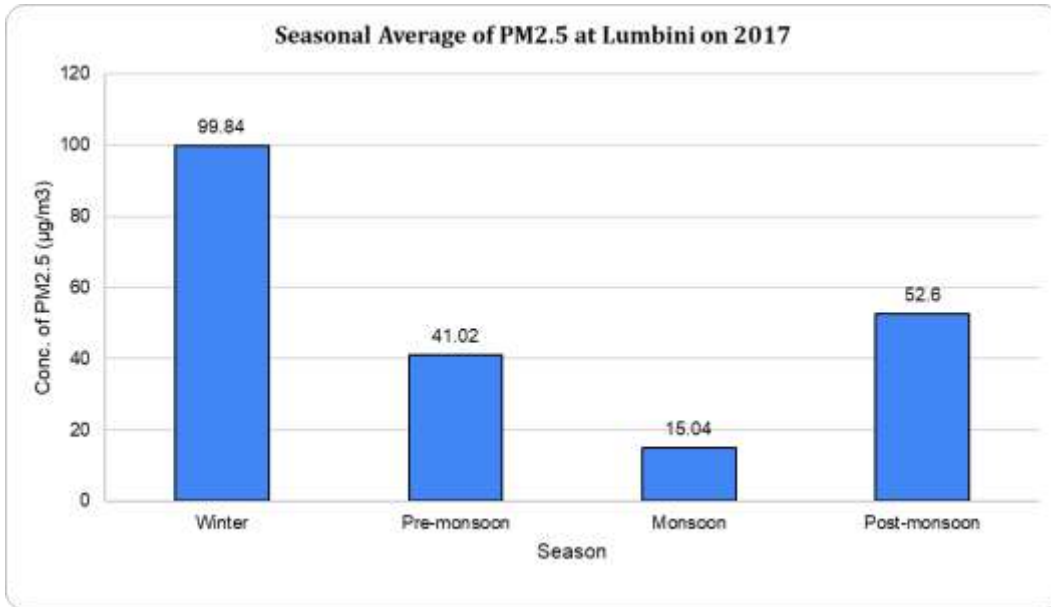


Figure 23 below. The concentration of PM_{2.5} was found higher during winter ($99.84 \mu\text{g}/\text{m}^3$) than monsoon season ($15.04 \mu\text{g}/\text{m}^3$).

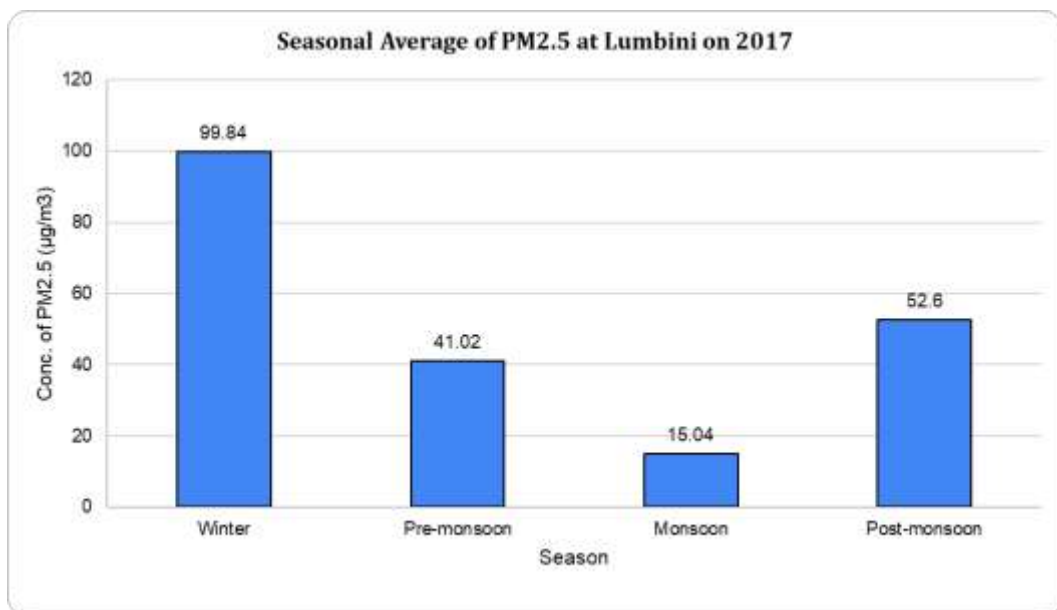


Figure 23: Seasonal variation of PM_{2.5}

Diurnal variation of PM_{2.5}

The diurnal variation of average PM_{2.5} concentrations can be shown in the figure

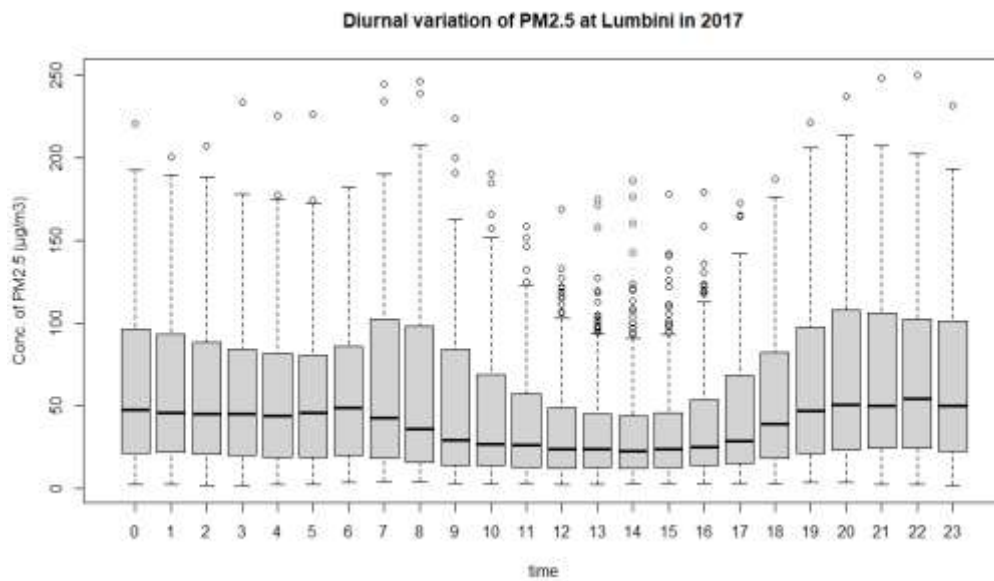


Figure 24 below. The variation in PM_{2.5} concentration was high at around 8 am and 8 pm and low at 2 pm.

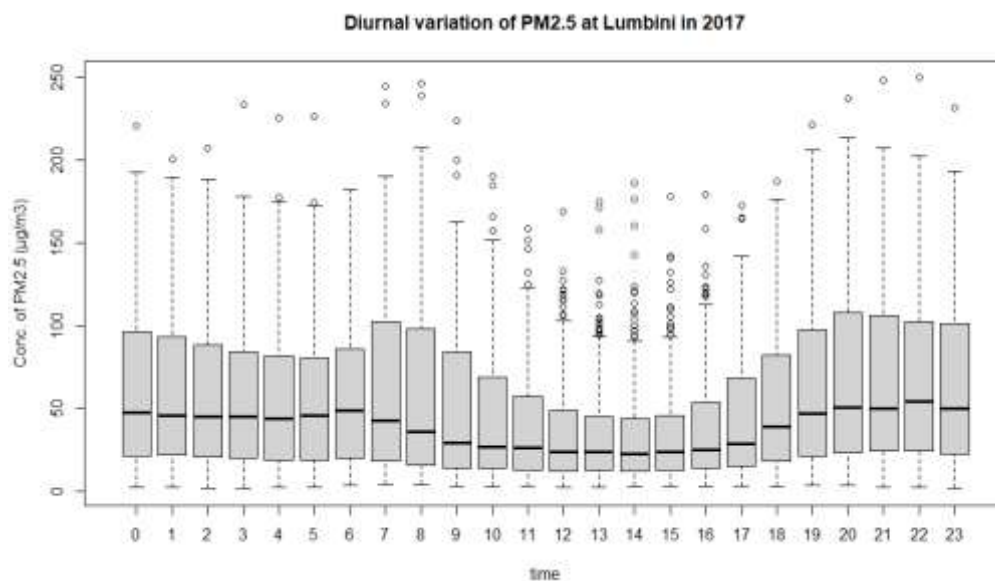


Figure 24: Diurnal Variation of PM_{2.5}

Compliance status of PM_{2.5}

The total days of PM_{2.5} monitored in the year 2017 counts 309, of which 158 days exceeded the NAAQS guideline.

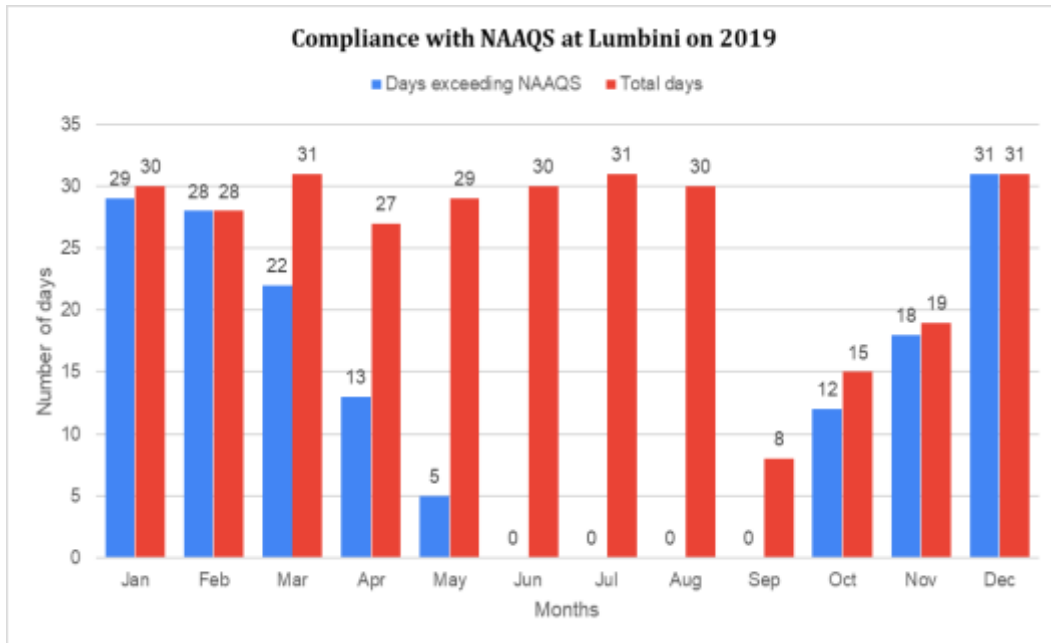


Figure 25: Compliance status of PM_{2.5}

2.2.4 Temporal variation of PM₁₀

Annual average of PM₁₀

Annual average of PM₁₀ for Lumbini Station was observed to be 71.75 µg/m³. Histogram of hourly average PM₁₀ is shown in the figure below.

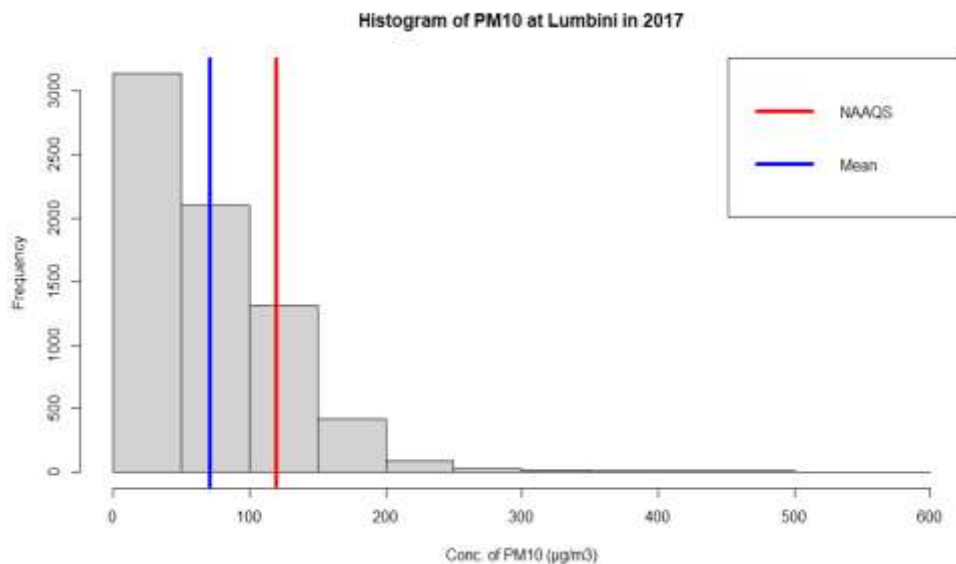


Figure 26 : Histogram of PM₁₀.

Daily average of PM₁₀

Daily average concentration of PM₁₀ was high during April and low during July.

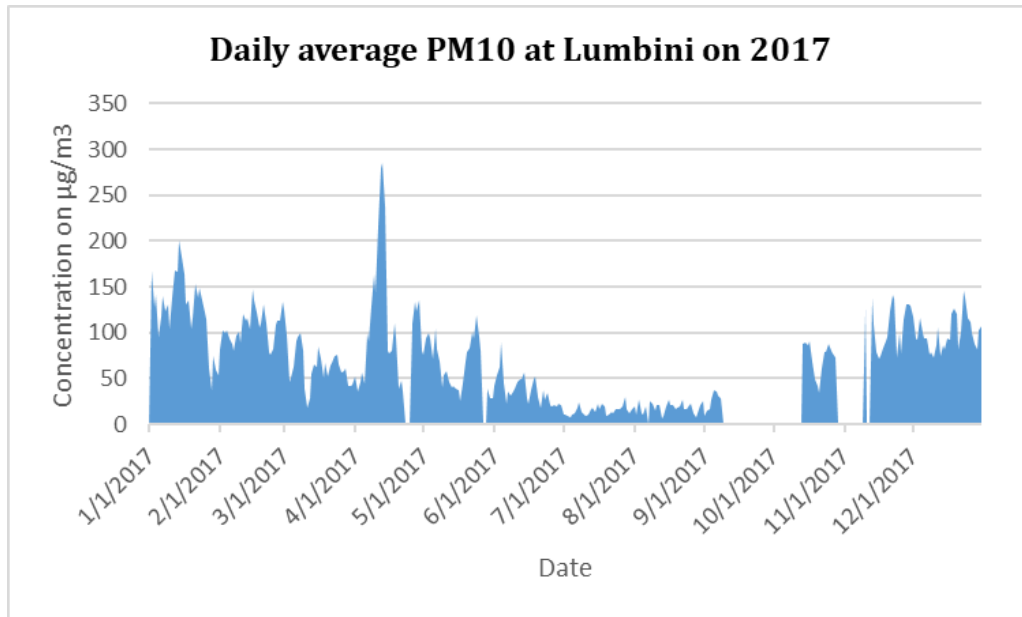


Figure 27: Daily average of PM₁₀

Monthly average of PM₁₀

The highest and the lowest monthly average of PM₁₀ was found during January (124.96 µg/m³) and July (14.86 µg/m³) respectively.

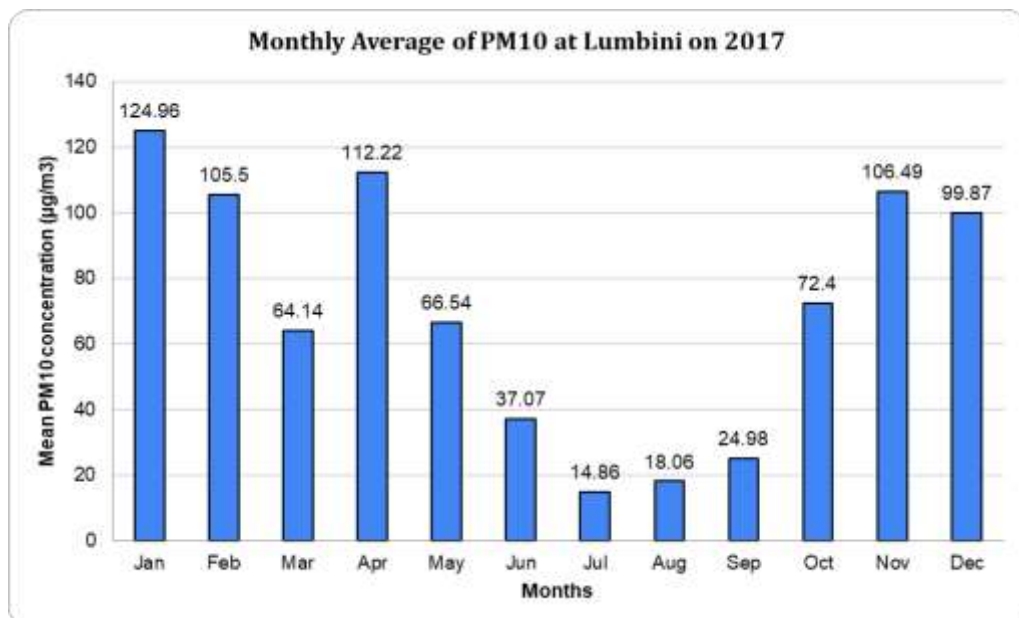


Figure 28: Monthly Average of PM₁₀

Monthly variation of PM₁₀

Variation in concentration of PM₁₀ was found higher during April and lower during July.

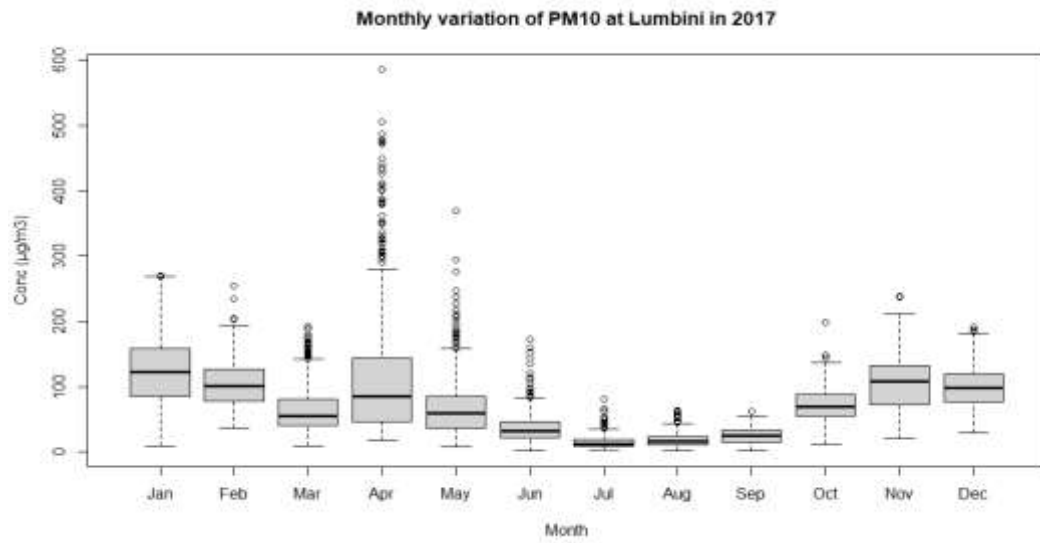


Figure 29: Monthly Variation of PM₁₀

Seasonal variation of PM₁₀

Ambient concentration of average PM_{2.5} during Winter (December-February), Pre-monsoon (March-May), monsoon (June-September), and post-monsoon (October-November) can be shown in the figure below. The concentration of PM_{2.5} was found higher during winter (108.02 µg/m³) than monsoon season (23.33 µg/m³).

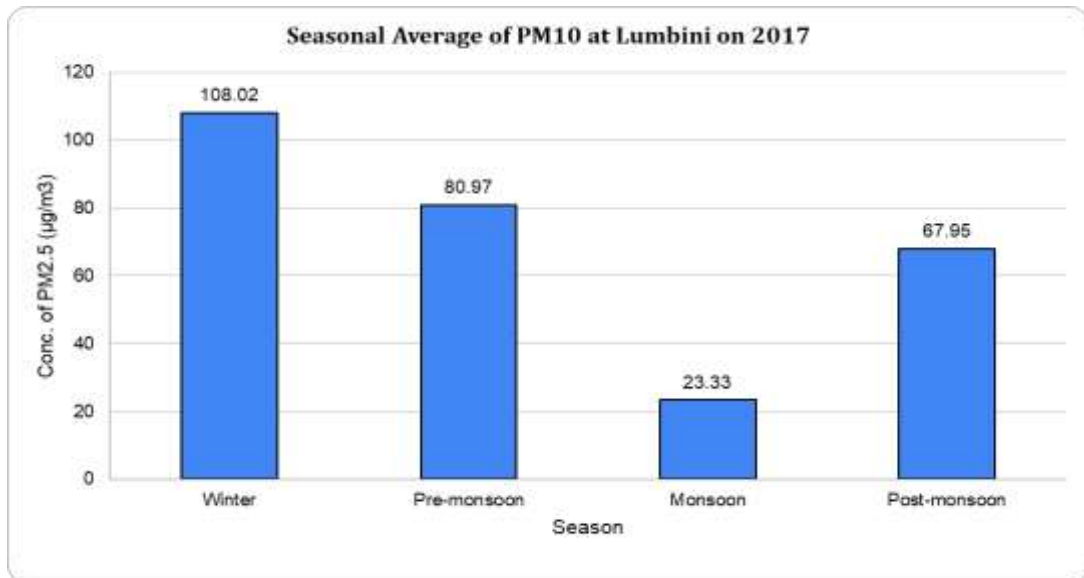


Figure 30: Seasonal variation of PM₁₀

Diurnal variation of PM₁₀

The diurnal variation of average PM₁₀ concentrations can be shown in the figure below. The variation in PM₁₀ concentration was high at around 8 pm and 9 pm and low at 2 pm.

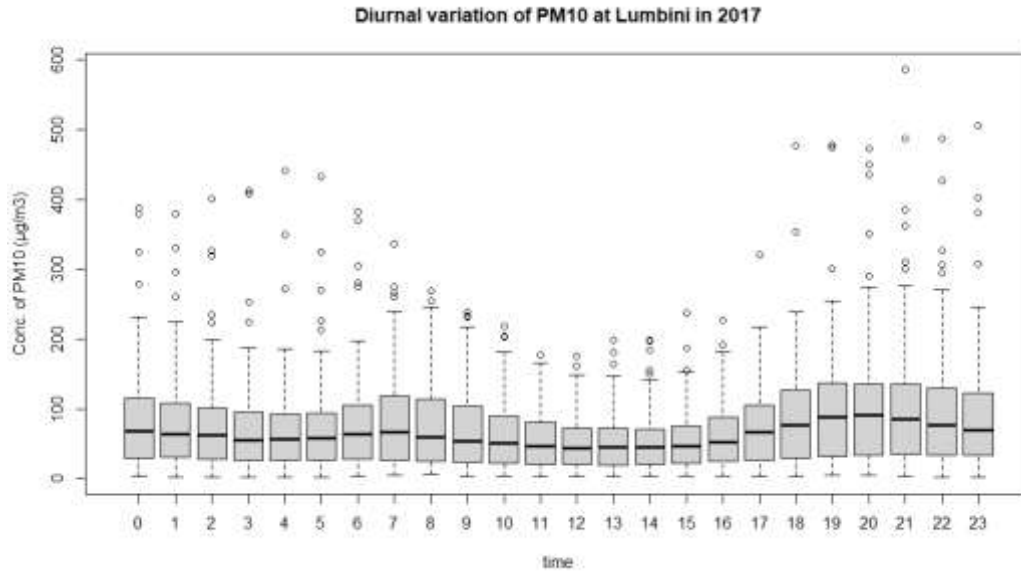


Figure 31: Diurnal Variation of PM₁₀

Compliance status of PM₁₀

The total days of PM₁₀ monitored in the year 2017 counts 309 of which 206 days exceed the NAAQS guideline.

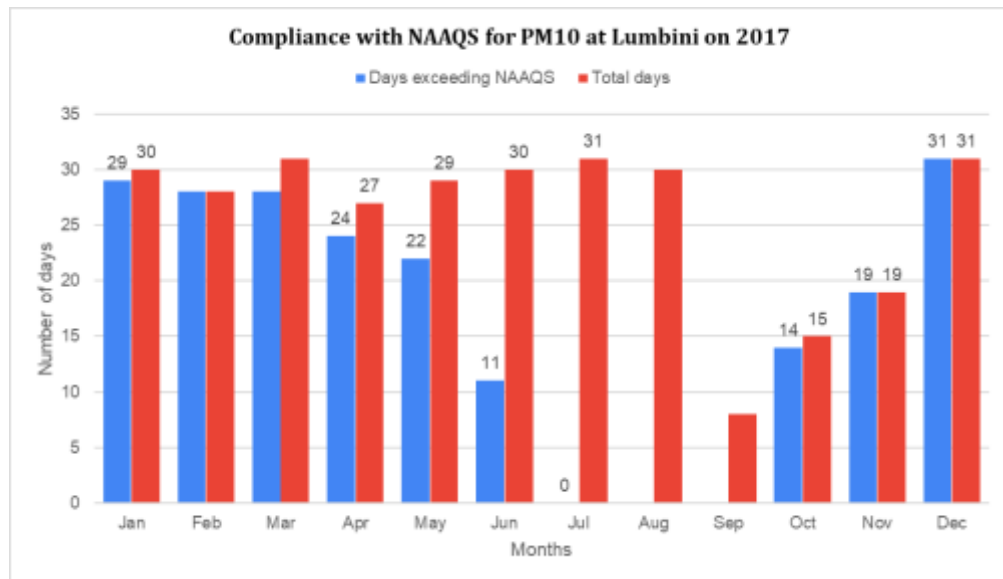


Figure 32: Compliance status of PM₁₀

2.3 Air Quality Status, 2018

2.3.1 Annual average of PM₁, PM_{2.5}, and PM₁₀

The annual average of PM₁, PM_{2.5}, and PM₁₀ for the Lumbini station was calculated as shown in the figure below.

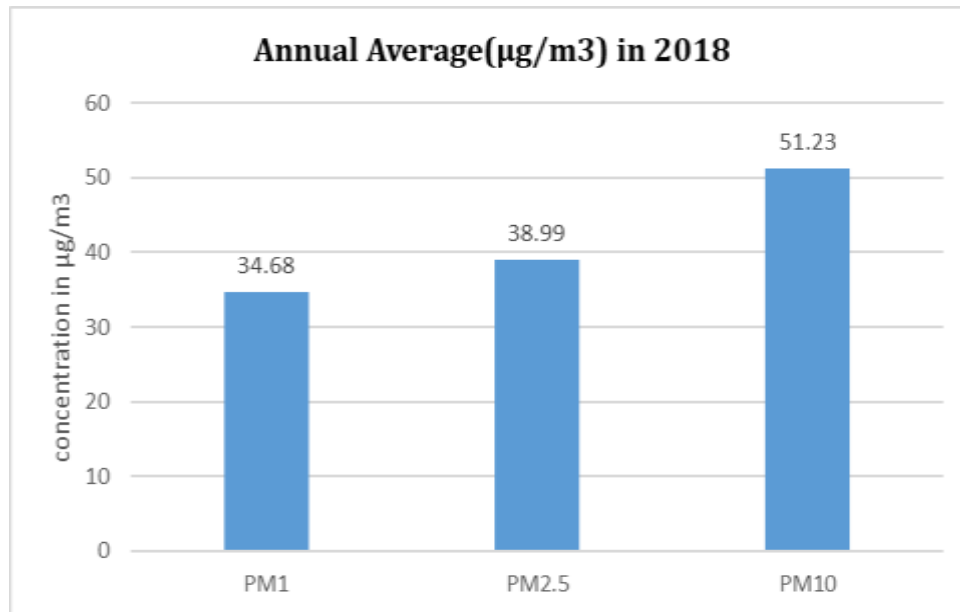


Figure 33: Annual average of PM₁, PM_{2.5}, and PM₁₀

2.3.2 Temporal variation of PM₁

Annual average of PM₁

PM₁ average for November and December for Lumbini Station was observed to be 95.25 µg/m³. Histogram of hourly average PM₁ is shown in the figure below.

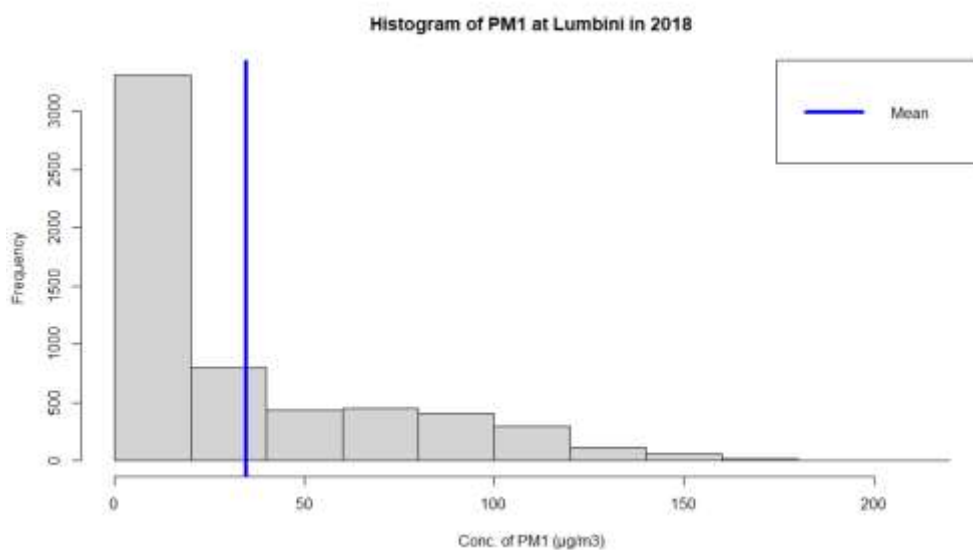


Figure 34 : Histogram of PM₁

Daily average of PM₁

Daily average concentration of PM₁ given in the figure below.

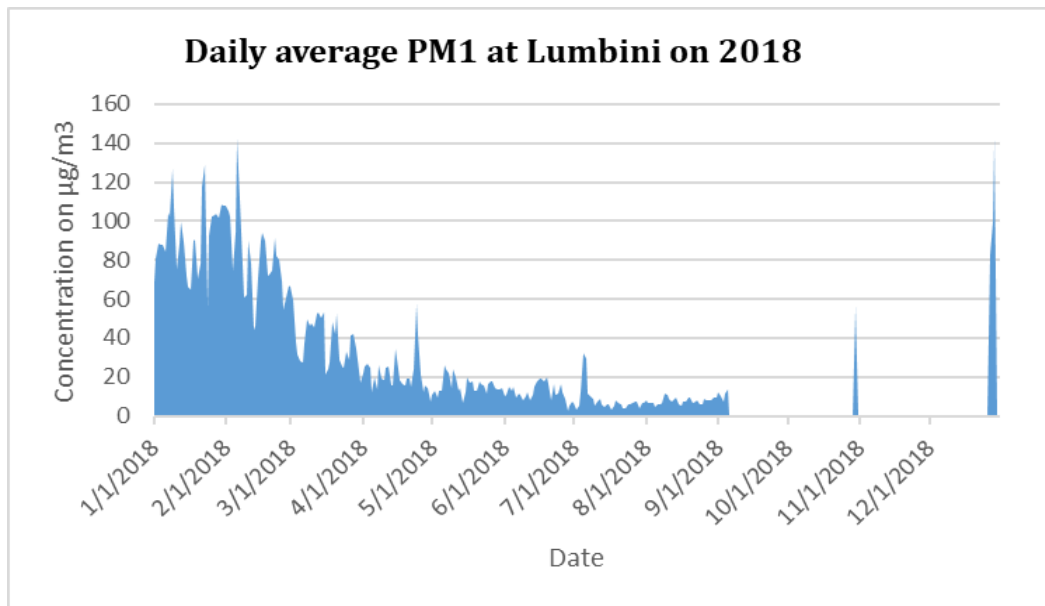


Figure 35: Daily average of PM₁

Monthly average of PM₁

The highest and the lowest monthly average of PM₁ was found during January (91.75 µg/m³) and August (7.74 µg/m³) respectively. It is to be noted that the data of September, October, November and December were excluded from the consideration due to the 5-day, 1-day, no data and 3-day data respectively.

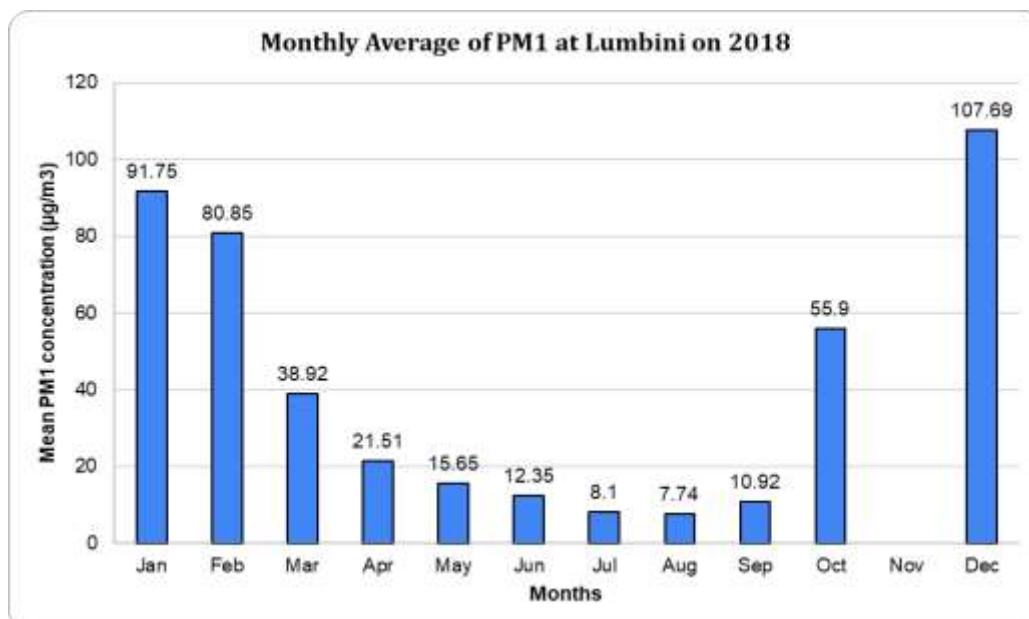


Figure 36: Monthly Average of PM₁

Monthly variation of PM₁

Variation in concentration of PM₁ is highest during February and lowest during August respectively.

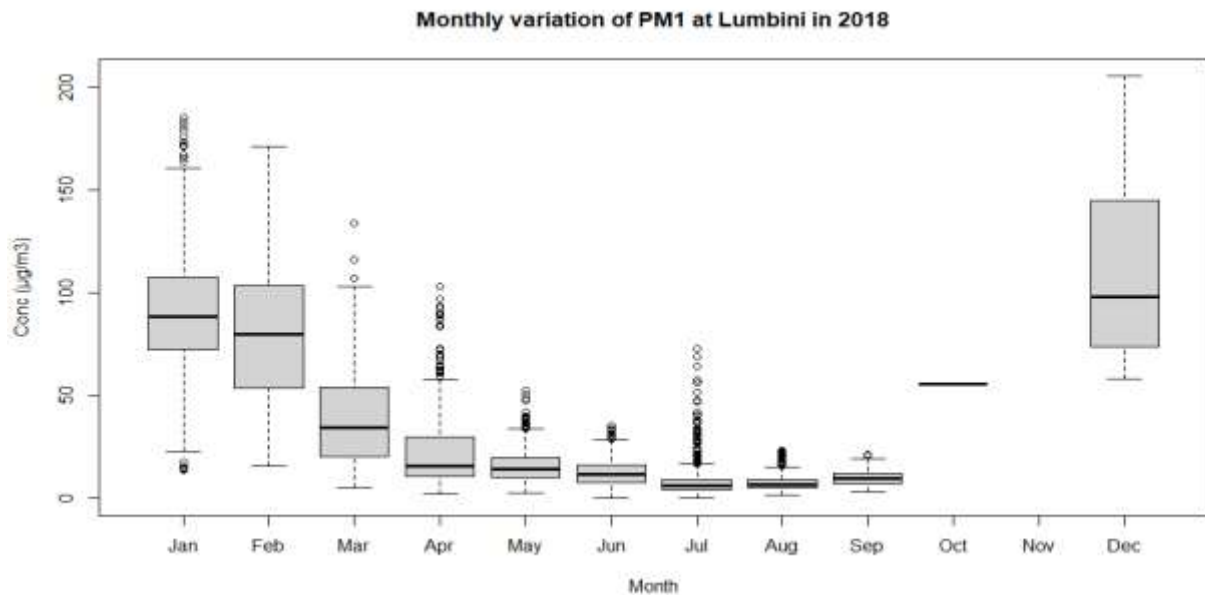


Figure 37: Monthly Variation of PM₁

Seasonal variation of PM₁

Ambient concentration of average PM₁ during winter (December-February), pre-monsoon (March-May) and monsoon (June-September) can be shown in the figure below. The concentration of PM₁ was found higher during winter (87.81 µg/m³) than monsoon season (9.4 µg/m³).

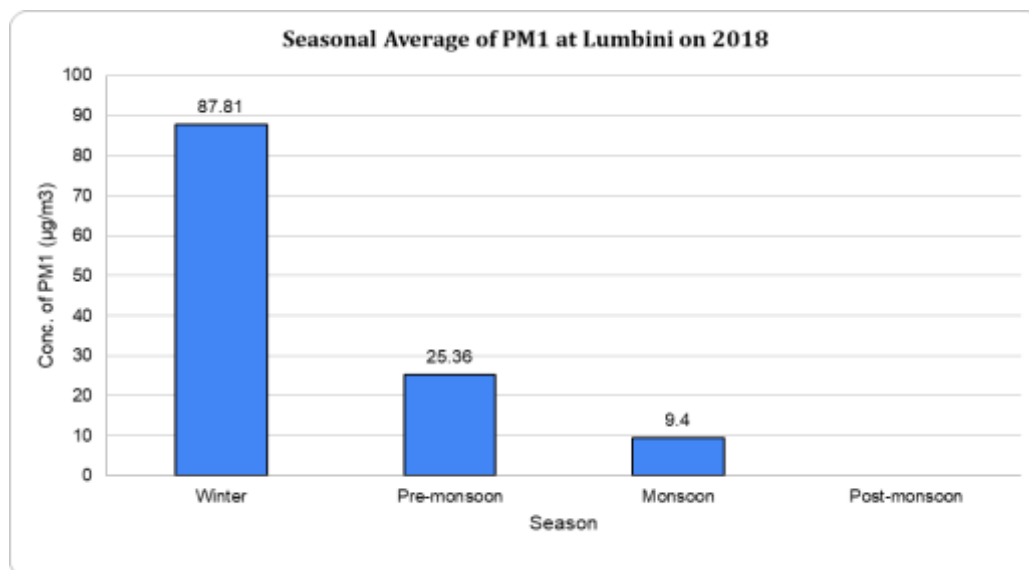


Figure 38: Seasonal Variation of PM₁

Diurnal variation of PM₁

The diurnal variation of average PM₁ concentrations can be shown in the figure below. The variation in PM₁ concentration was high at around 7 am and low at 3 pm.

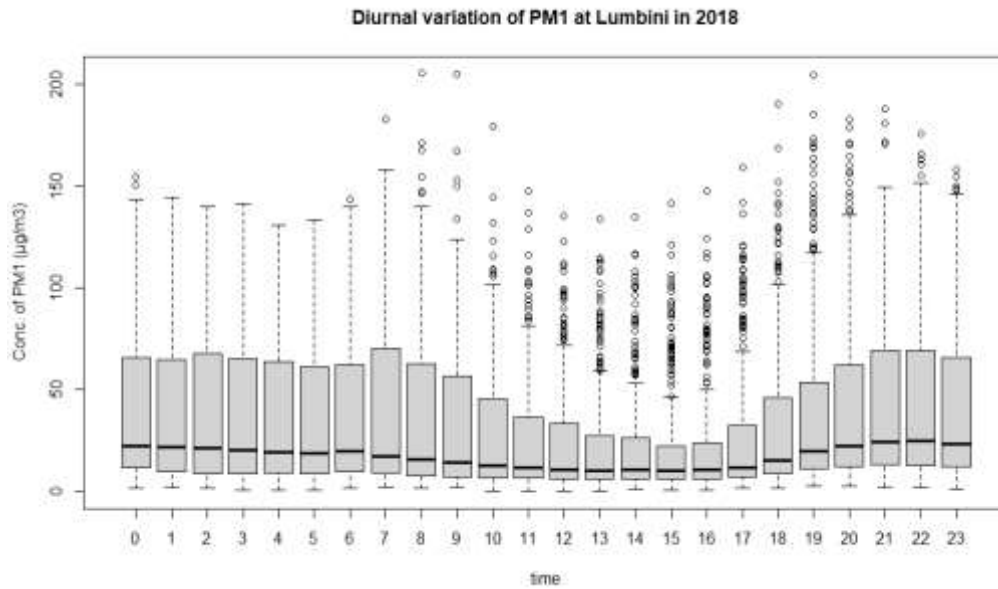


Figure 39: Diurnal Variation of PM₁

2.3.3 Temporal variation of PM_{2.5}

Annual average of PM_{2.5}

Annual average for PM_{2.5} for Lumbini Station was observed to be 38.99 µg/m³. Histogram of hourly average PM_{2.5} is shown in the figure below.

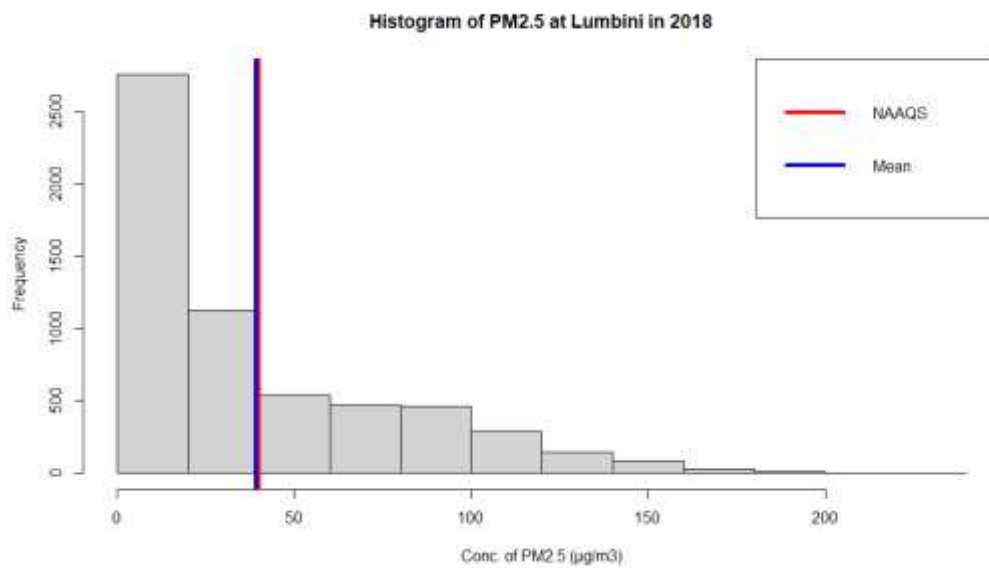


Figure 40 : Histogram of PM_{2.5}.

Daily average of PM_{2.5}

Daily average concentration of PM_{2.5} was high during February and was found low during August.

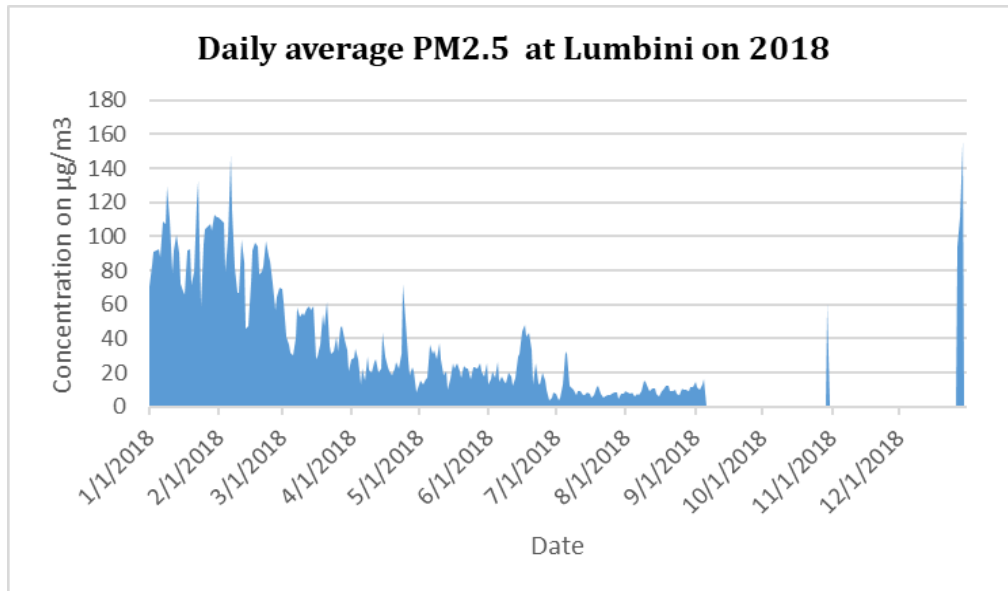


Figure 41: Daily average of PM_{2.5}

Monthly average of PM_{2.5}

The highest and the lowest monthly average of PM_{2.5} was found during January (94.43 µg/m³) and August (9.45 µg/m³) respectively

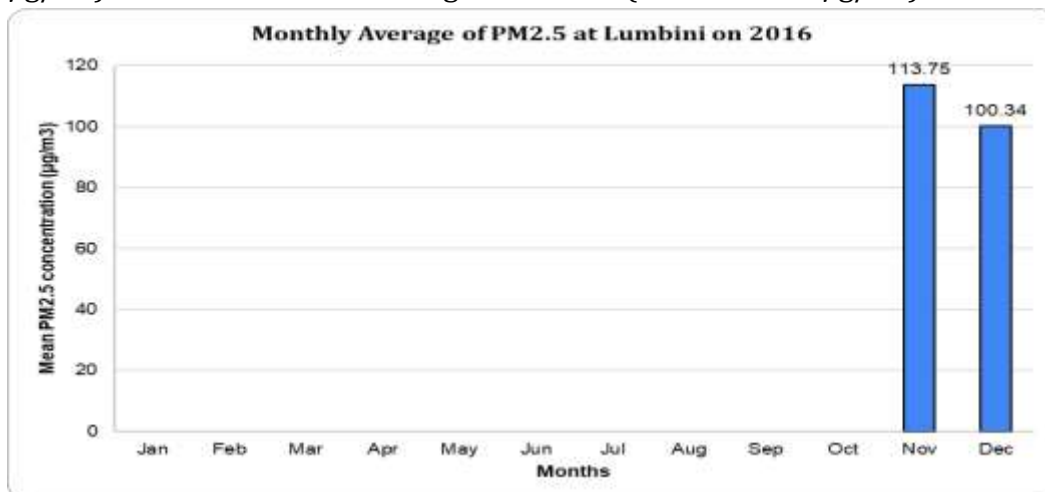


Figure 5. It

is to be noted that the data of September, October, November and December were excluded from the consideration due to the 5-day, 1-day, no data and 3-day) data respectively.

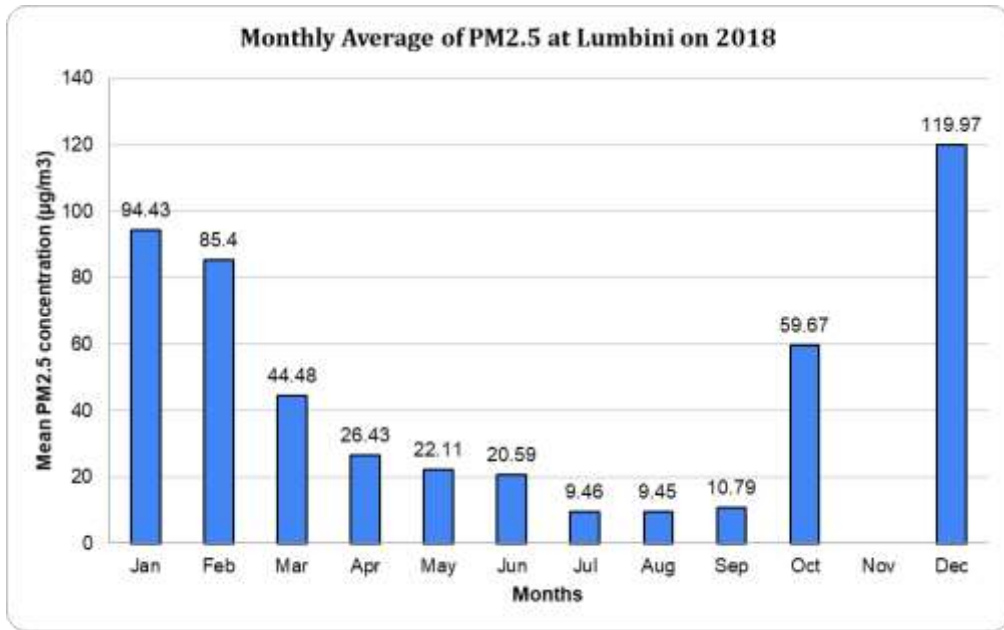


Figure 42: Monthly Average of PM_{2.5}

Monthly variation of PM_{2.5}

Variation in concentration of PM_{2.5} was found higher during February and lower during July and August.

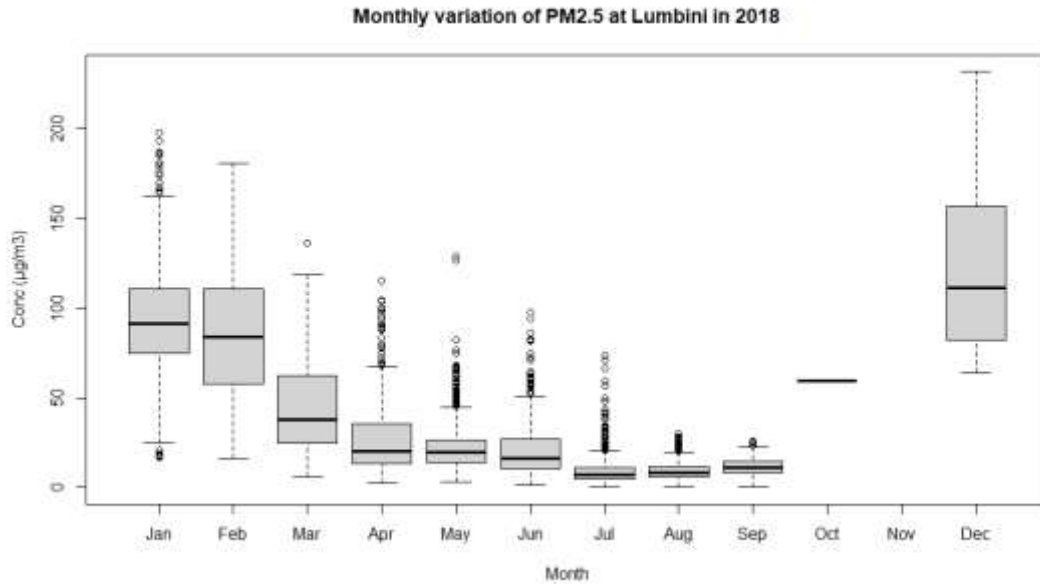
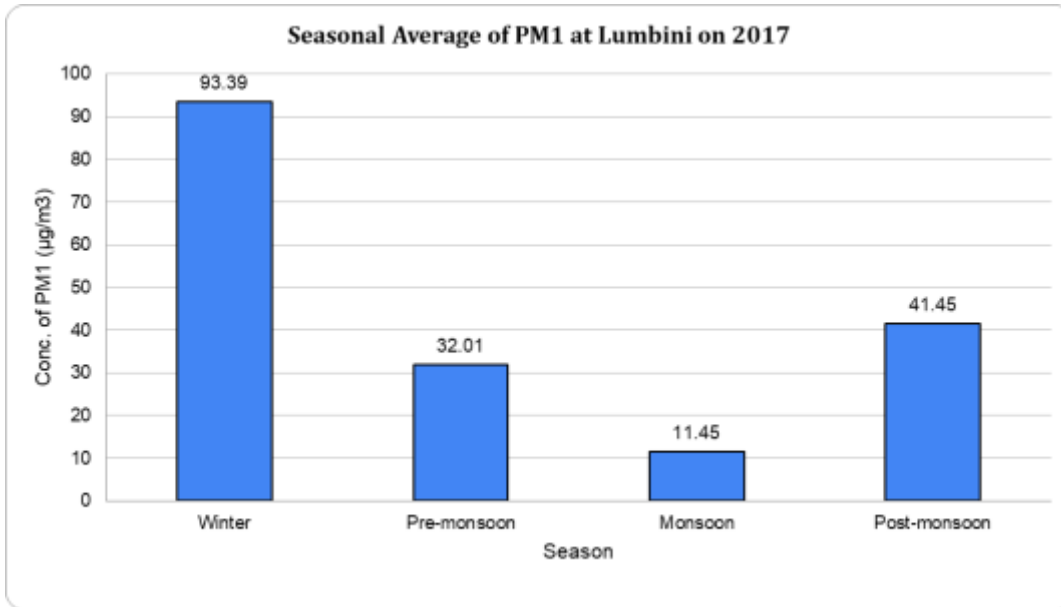


Figure 43: Monthly Variation of PM_{2.5}

Seasonal variation of PM_{2.5}

Ambient concentration of average PM_{2.5} during winter (December-February), Pre-monsoon (March-May) and monsoon (June-September) can be shown in the figure below. The concentration of PM_{2.5} was found higher during winter (91.3 µg/m³) than monsoon season (13.17 µg/m³)



Figure

17: Seasonal variation of PM.

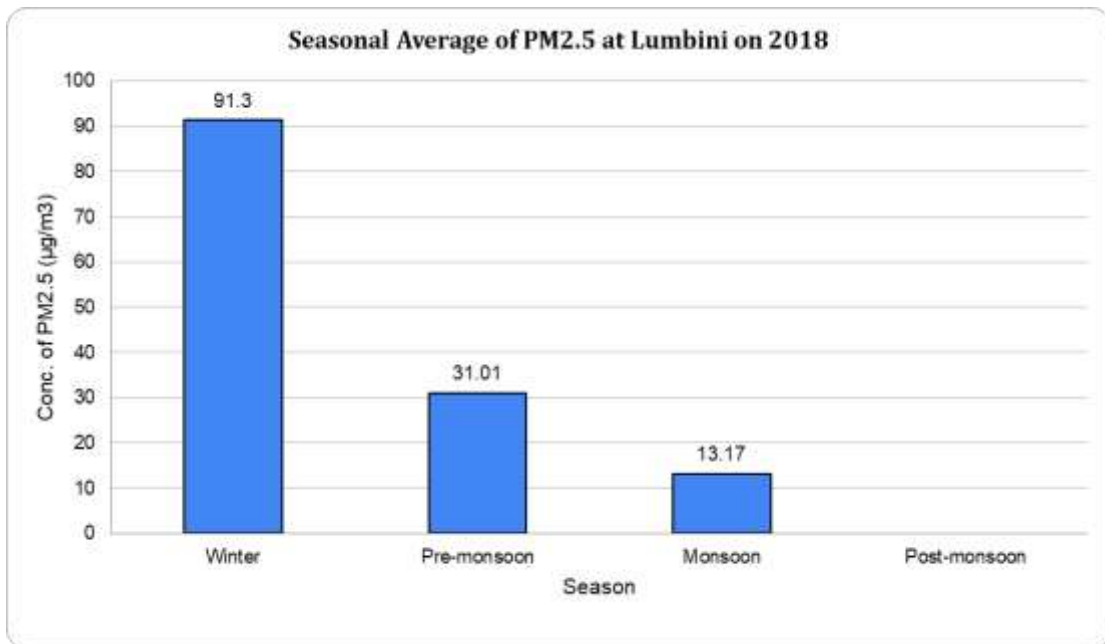


Figure 44: Seasonal variation of PM_{2.5}

Diurnal variation of PM_{2.5}

The diurnal variation of average PM_{2.5} concentrations can be shown in the figure below. The variation in PM_{2.5} concentration was high at around 7 am and 10 pm and low at 3pm.

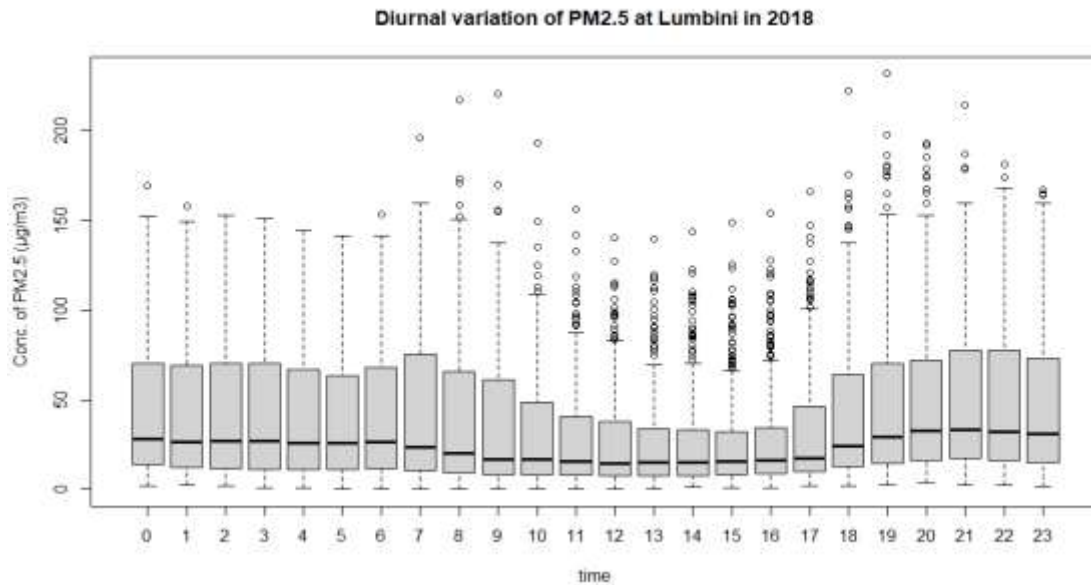


Figure 45: Diurnal Variation of PM_{2.5}

Compliance status of PM_{2.5}

The total days of PM_{2.5} monitored in the year 2018 counts 253, of which 88 days exceeded the NAAQS guideline.

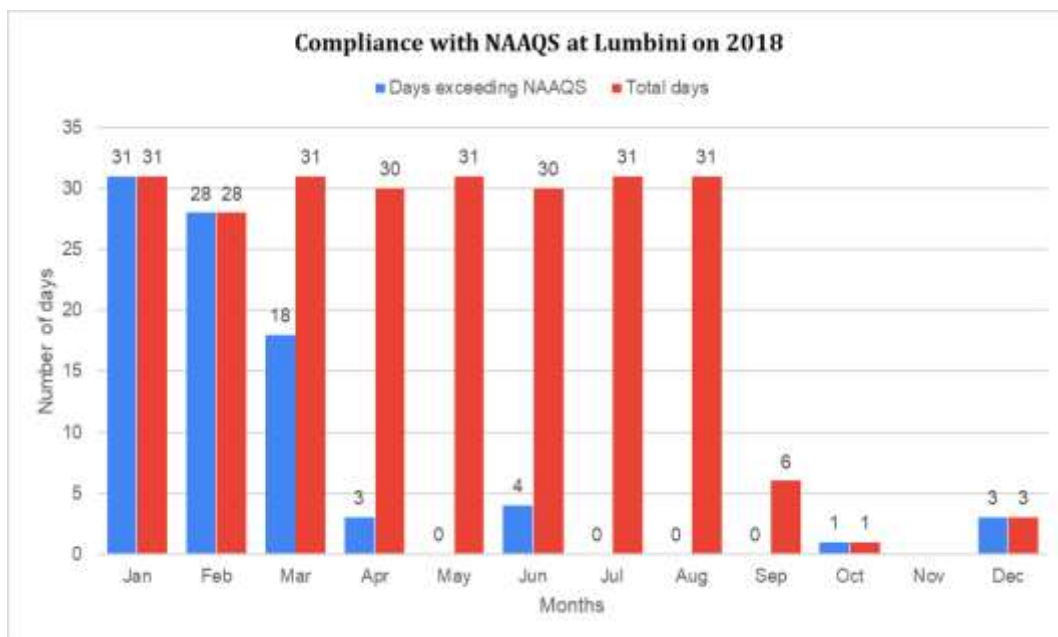


Figure 46: Compliance status of PM_{2.5}

2.3.4 Temporal variation of PM₁₀

Annual average of PM₁₀

Annual average of PM₁₀ for Lumbini Station was observed to be 51.23 µg/m³. Histogram of hourly average PM₁₀ is shown in the figure below.

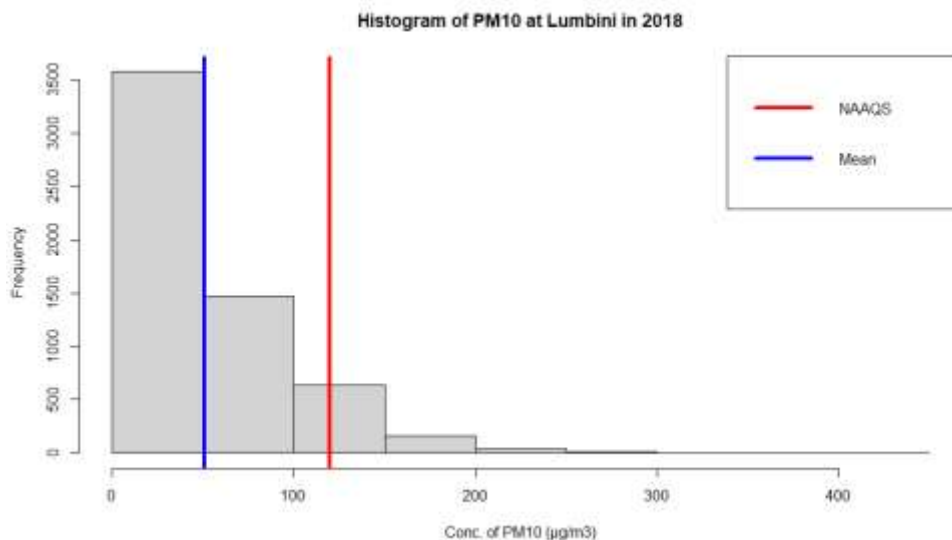


Figure 47 : Histogram of PM₁₀.

Daily average of PM₁₀

Daily average concentration of PM₁₀ was high during February and low during July and August.

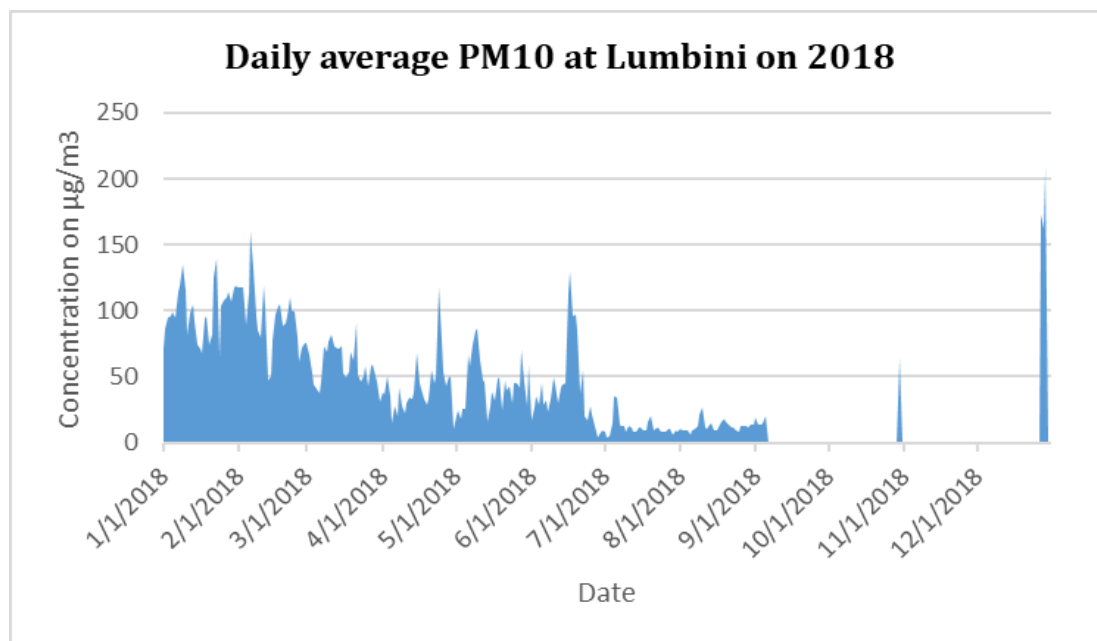


Figure 48: Daily average of PM₁₀

Monthly average of PM₁₀

The highest and the lowest monthly average of PM₁₀ was found during January (99.06 $\mu\text{g}/\text{m}^3$) and July (11.84 $\mu\text{g}/\text{m}^3$) respectively. It is to be noted that the data of September, October, November and December were excluded from the consideration due to the 5-day, 1-day, no data and 3-day) data respectively.

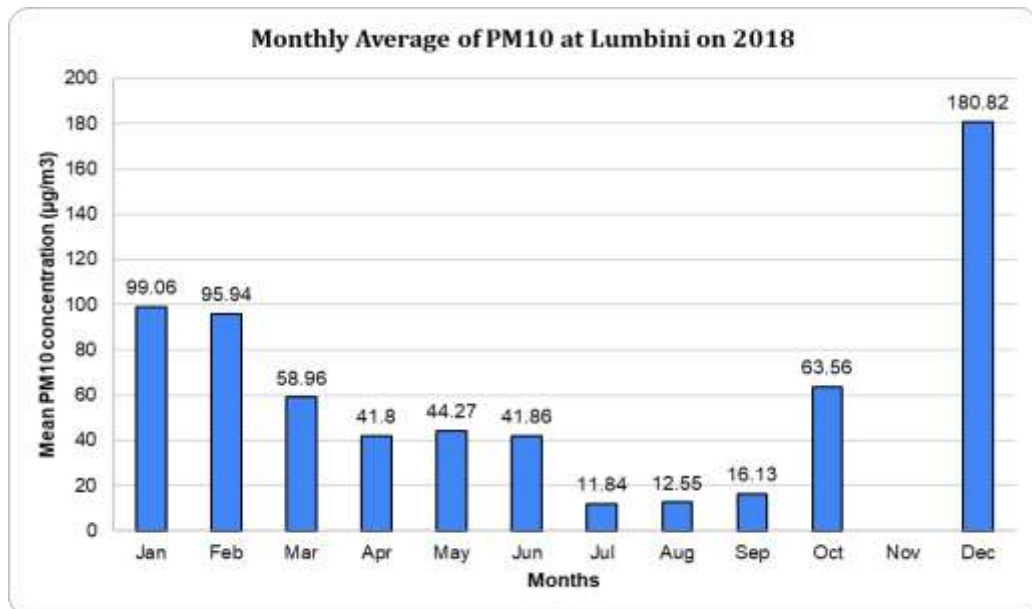


Figure 49: Monthly Average of PM₁₀

Monthly variation of PM₁₀

Variation in concentration of PM₁₀ was found high during February and low during July.

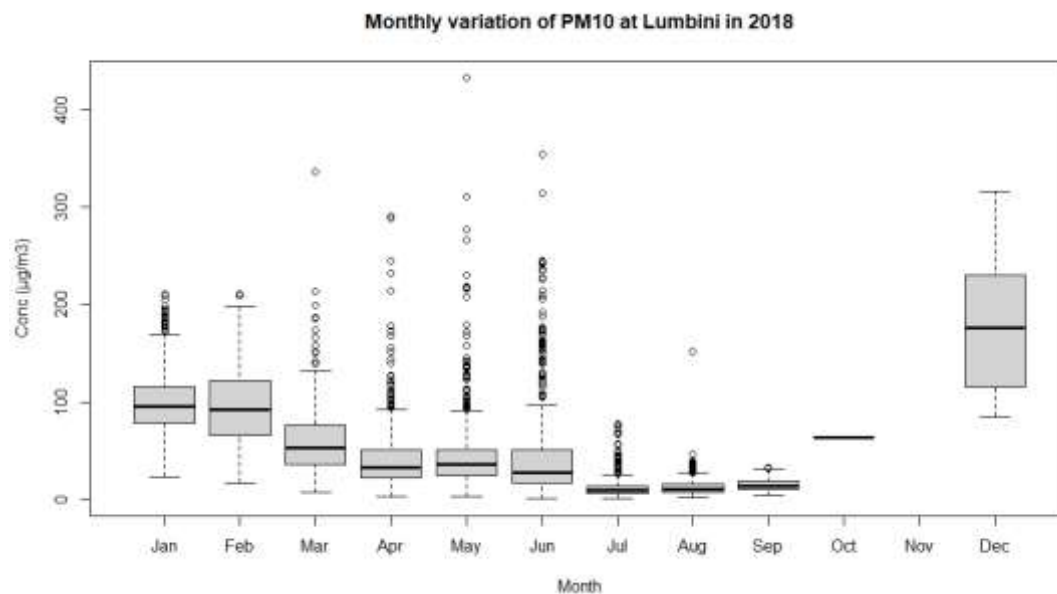
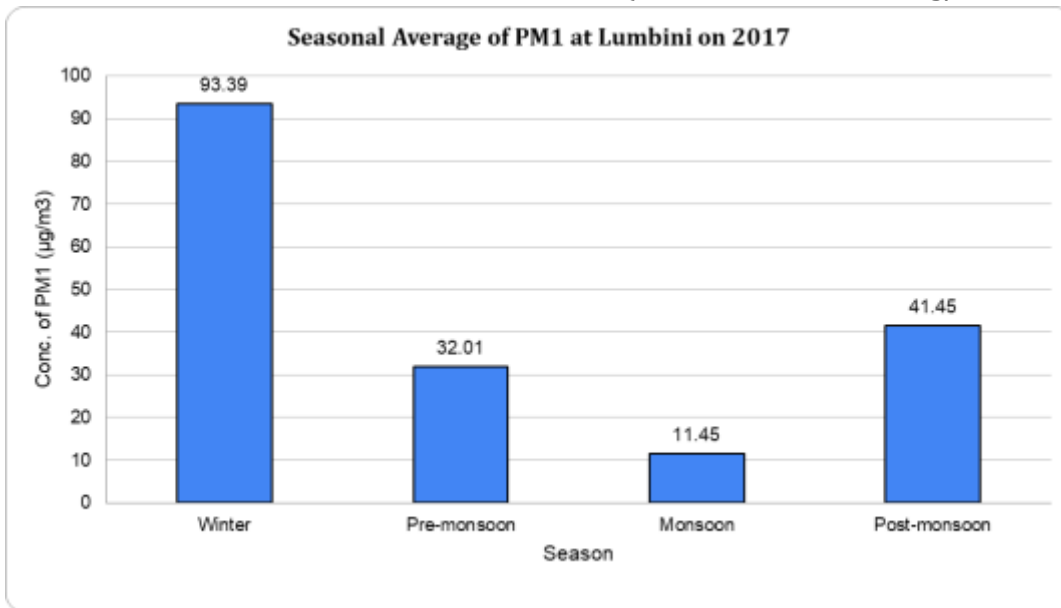


Figure 50: Monthly Variation of PM₁₀

Seasonal variation of PM₁₀

Ambient concentration of average PM₁₀ during Winter (December-February), Pre-monsoon (March-May) and Monsoon (June-September) can be shown in the figure below. The concentration of PM₁₀ was found higher during winter (91.3 μg/m³) than monsoon season (13.17 μg/m³))



Figure

17: Seasonal variation of PM.

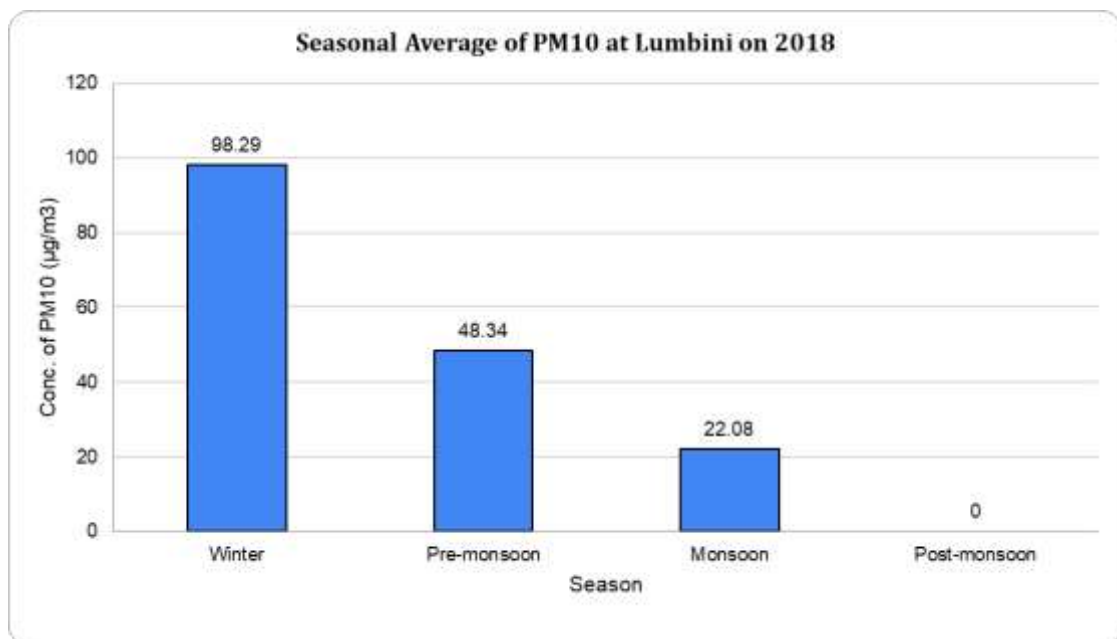


Figure 51: Seasonal variation of PM₁₀

Diurnal variation of PM₁₀

The diurnal variation of average PM₁₀ concentrations can be shown in the figure below

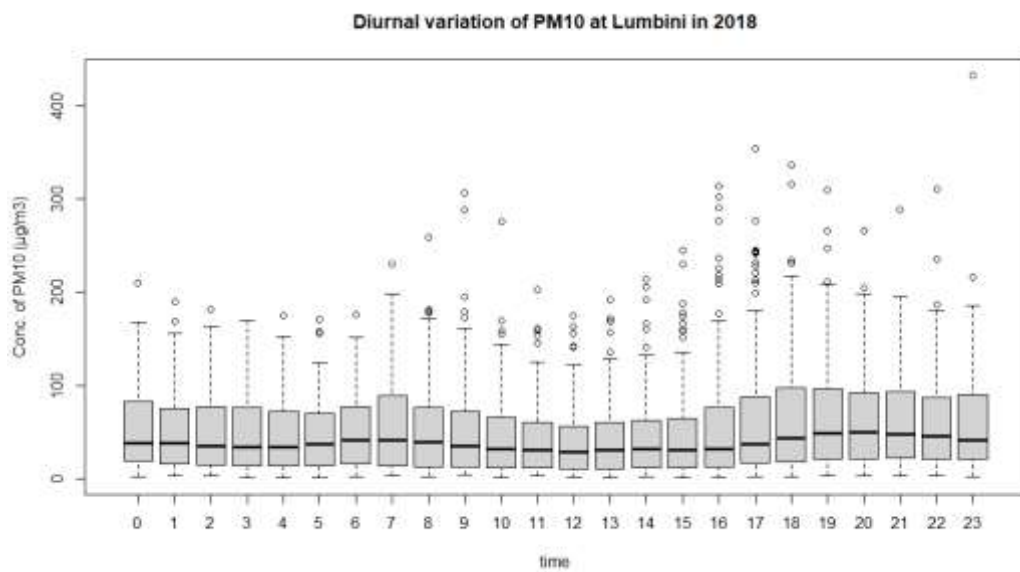


Figure 52. The variation in PM₁₀ concentration was high at around 6 pm and low at 2 pm.

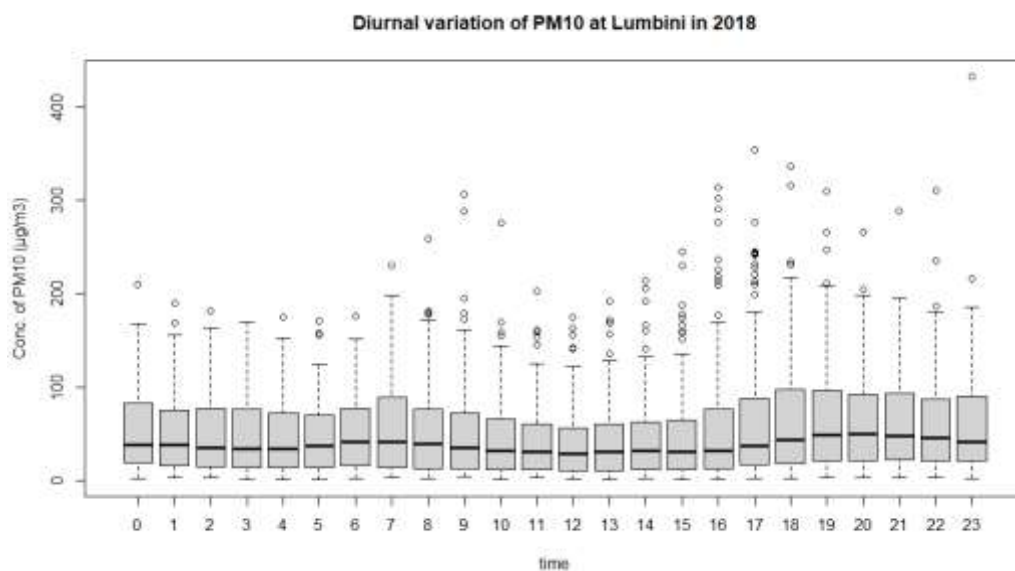


Figure 52: Diurnal Variation of PM₁₀

Compliance status of PM₁₀

The total days of PM₁₀ monitored in the year 2018 counts 252 of which 136 days exceed the NAAQS guideline.

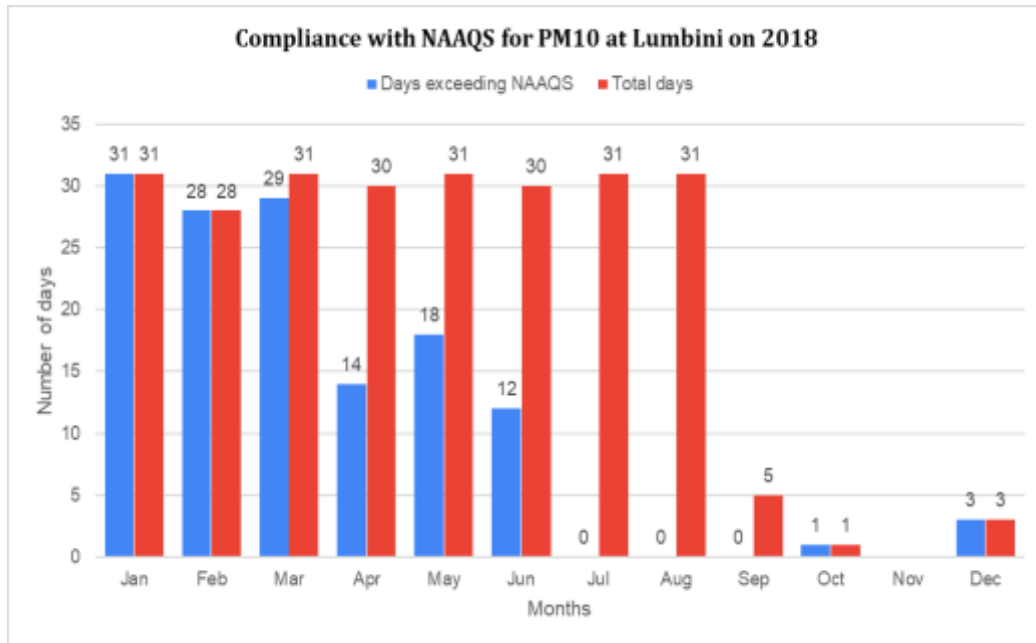


Figure 53: Compliance status of PM₁₀

2.4 Air Quality Status, 2019

2.4.1 Annual average of PM₁, PM_{2.5}, and PM₁₀

Since the data of PM₁, PM_{2.5} and PM₁₀ for the year 2019 was valid for May and June only, their annual average could not be calculated. The 2-day data of January, 14-days data of April, 2-day data of July, 8-day data of October, 2-day data of November and 8-day data of December were excluded from analysis. *Error! No sequence specified.*

2.4.2 Temporal variation of PM₁

Annual average of PM₁

Due to lack of data, annual average of PM₁ could not be calculated.

Daily average of PM₁

Daily average concentration of PM₁ given in the

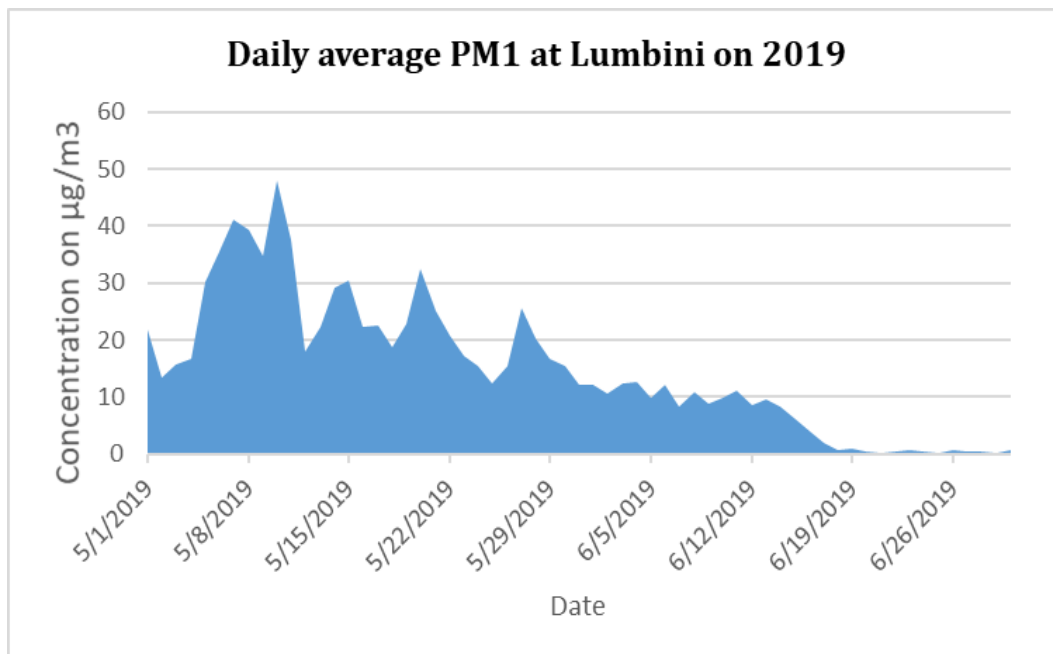


Figure 54gure below.

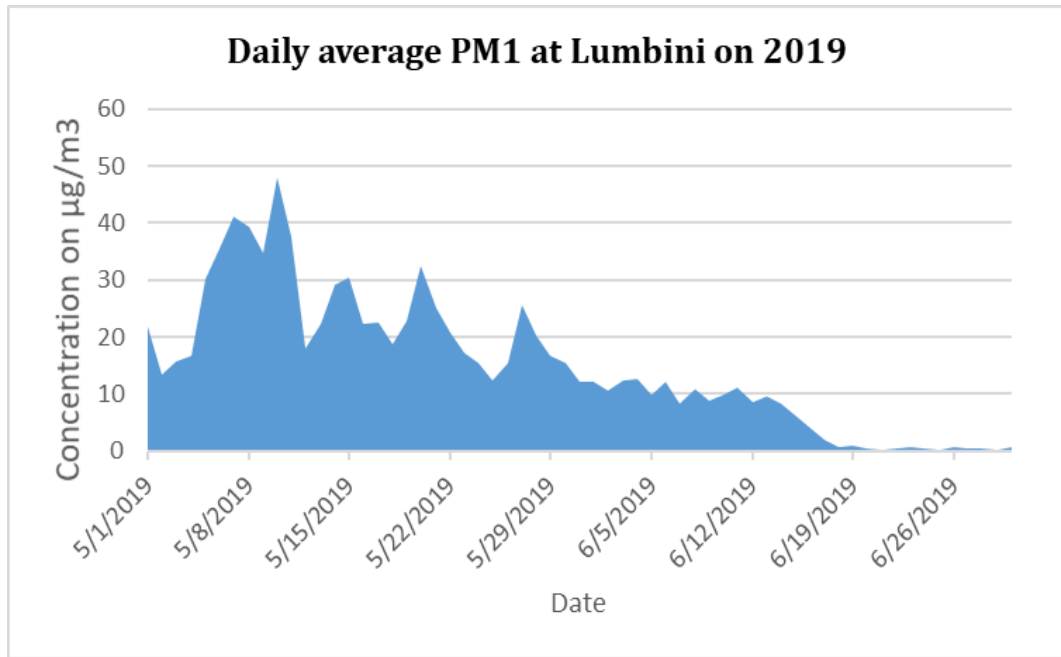


Figure 54: Daily average of PM₁

Monthly average of PM₁

The monthly average of PM₁ is shown in the figure below. It is to be noted that only May and June were valid to be considered for monthly average.

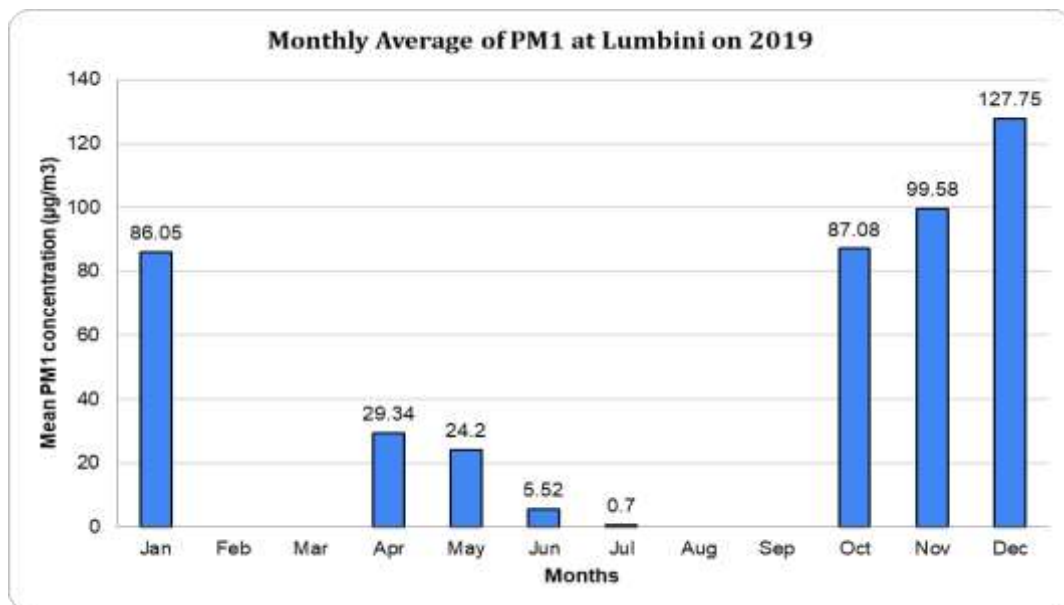


Figure 55: Monthly Average of PM₁

Monthly variation of PM₁

Variation in concentration of PM_1 is shown in the figure below

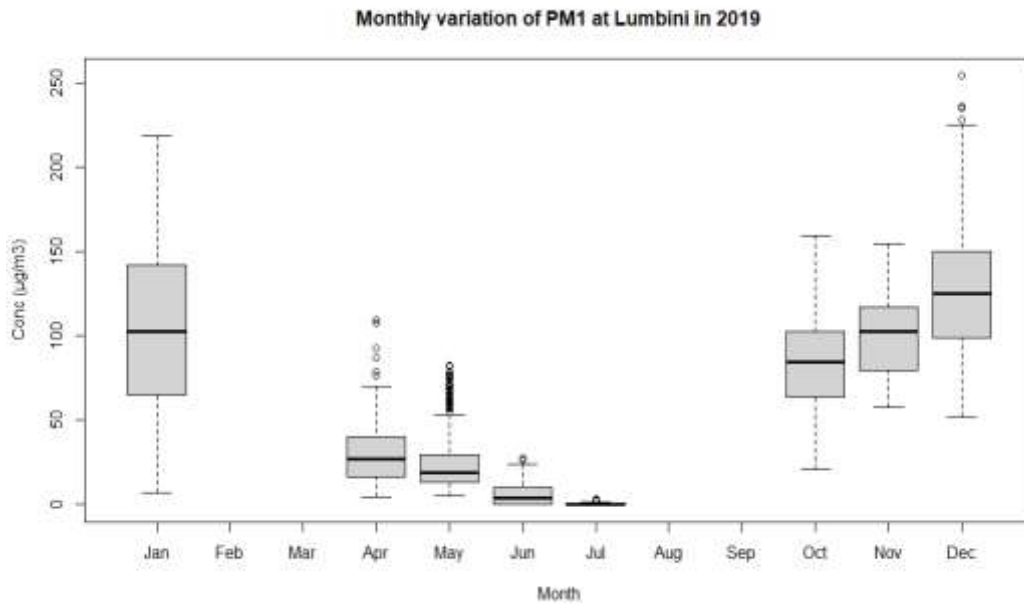


Figure 56 Error! Reference source not found..

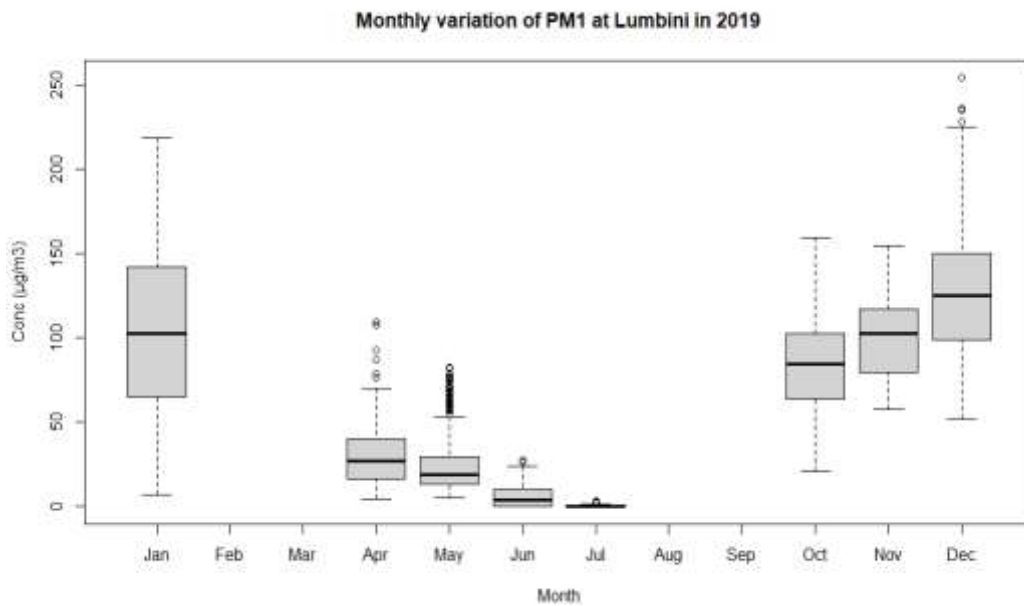


Figure 56: Monthly Variation of PM_1

Seasonal variation of PM_1

Due to lack of data, seasonal variation could not be calculated.

Diurnal variation of PM_1

The diurnal variation of average PM_1 concentrations can be shown in the figure below. The variation in PM_1 concentration was high at around 12 am and low at 3 pm.

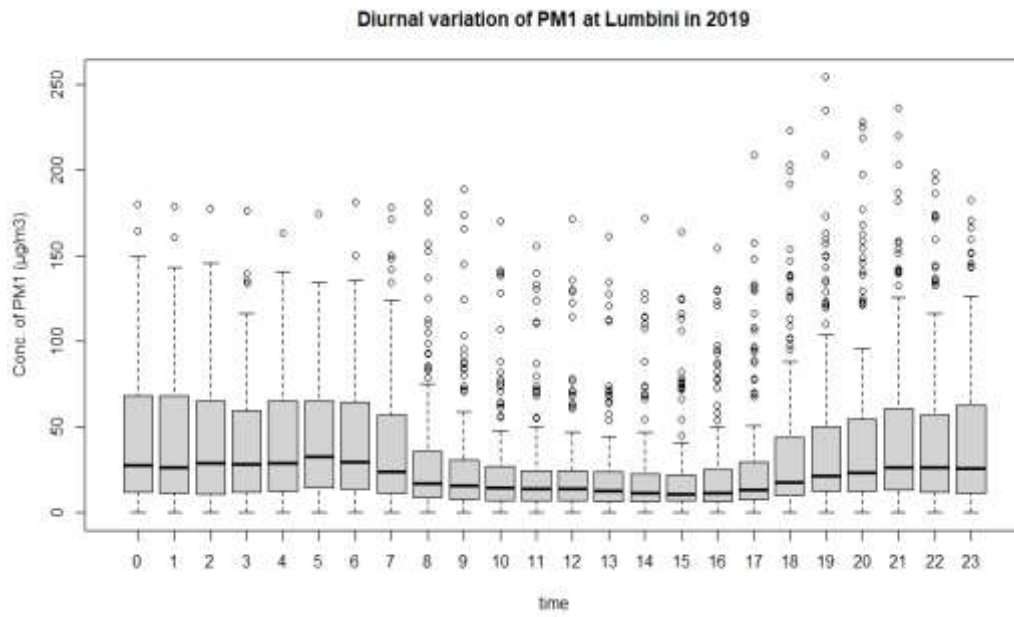


Figure 57: Diurnal Variation of PM₁

2.4.3 Temporal variation of PM_{2.5}

Annual average of PM_{2.5}

Since the data for May and June were valid for analysis, the annual average of PM_{2.5} could not be calculated.

Daily average of PM_{2.5}

Daily average concentration of PM_{2.5} given in the figure below

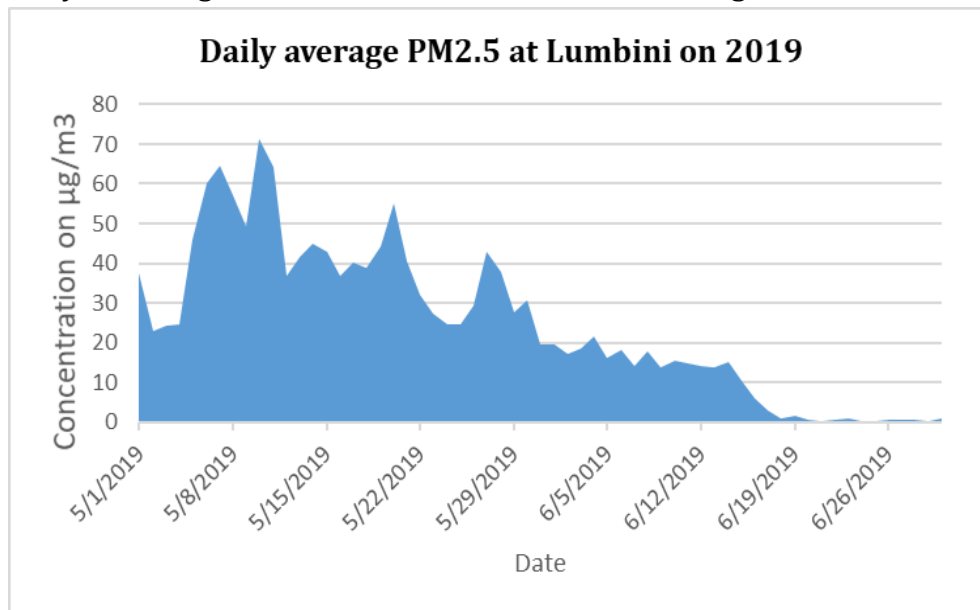


Figure 58.

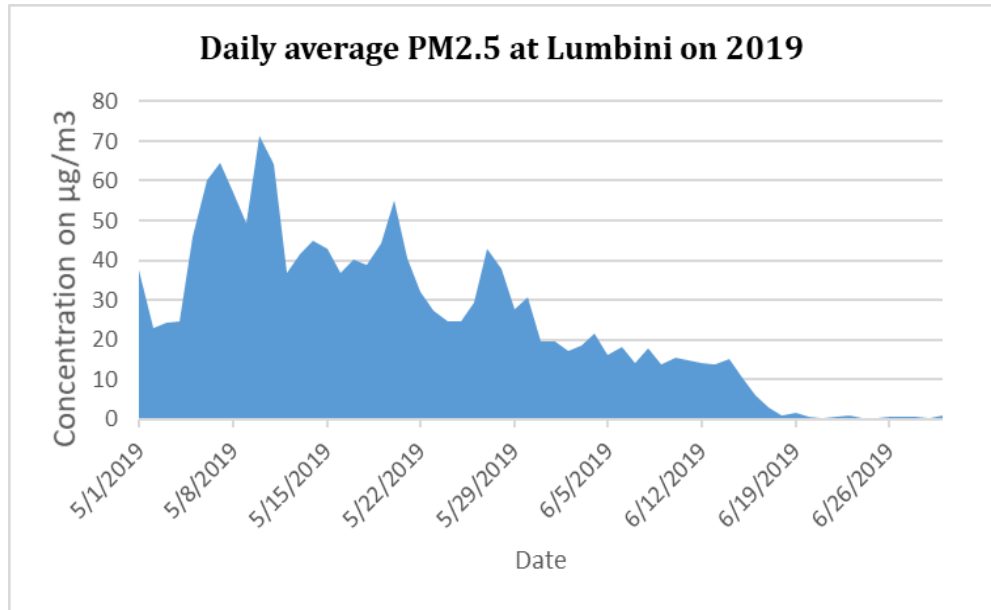


Figure 58: Daily average of PM_{2.5}

Monthly average of PM_{2.5}

The monthly average of PM_{2.5} is shown in the

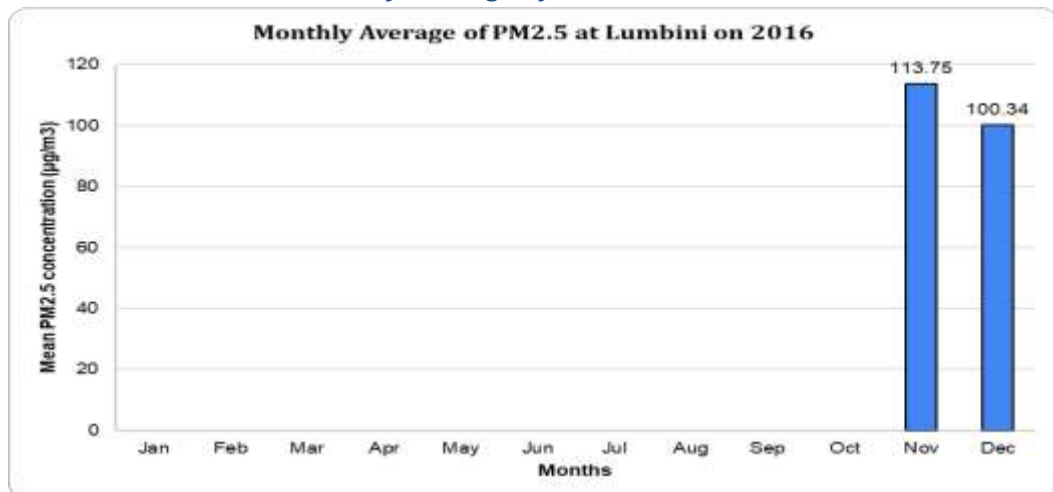


Figure 5figure below

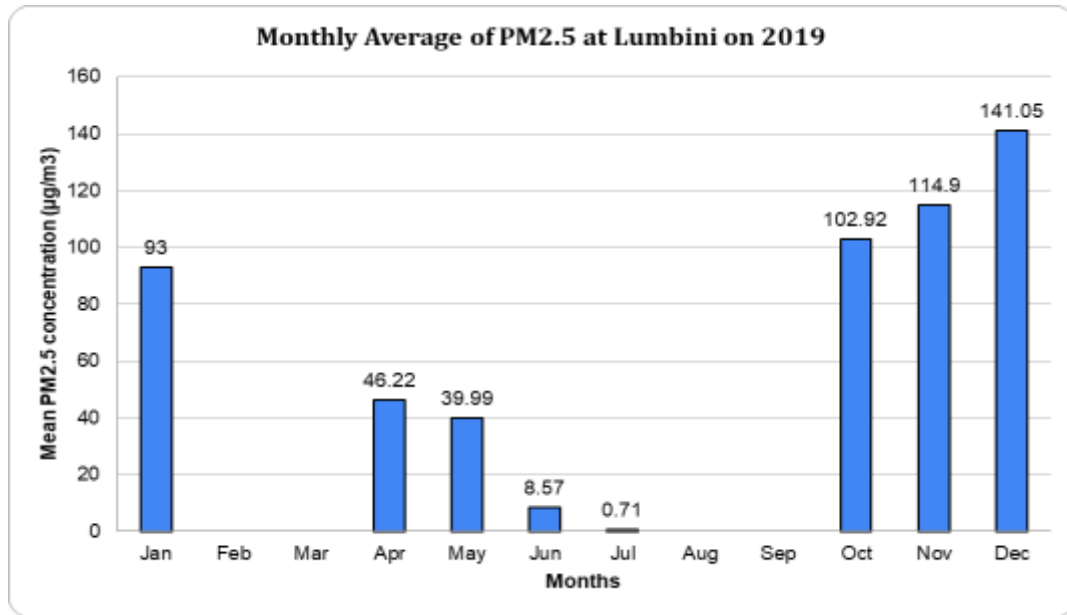


Figure 59. It is to be noted that only May and June were valid to be considered for monthly average.

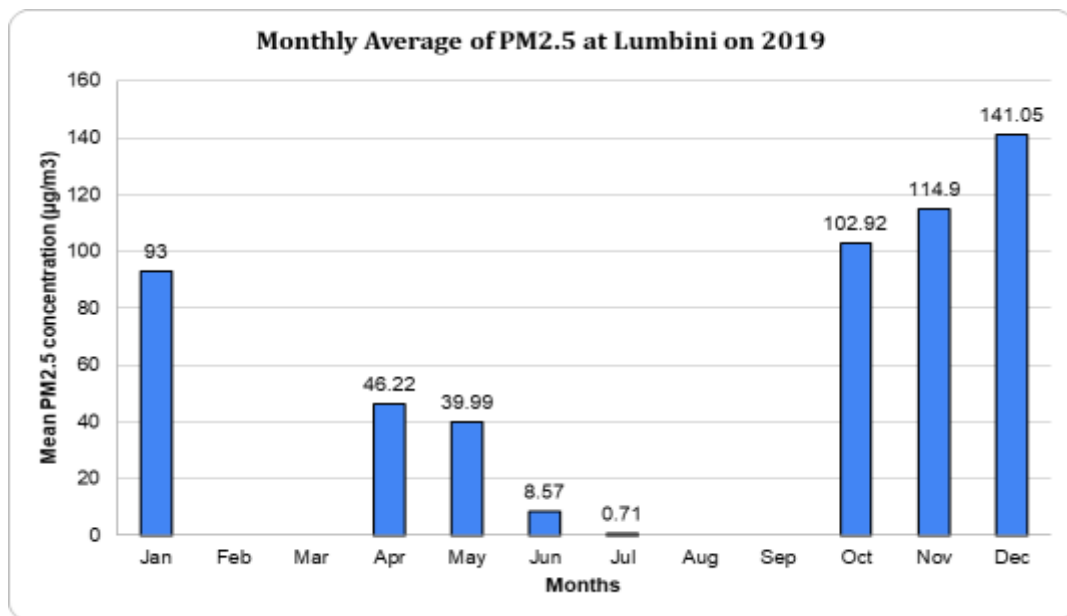


Figure 59: Monthly Average of PM_{2.5}

Monthly variation of PM_{2.5}

Variation in concentration of PM_{2.5} was found high during January and low during June.

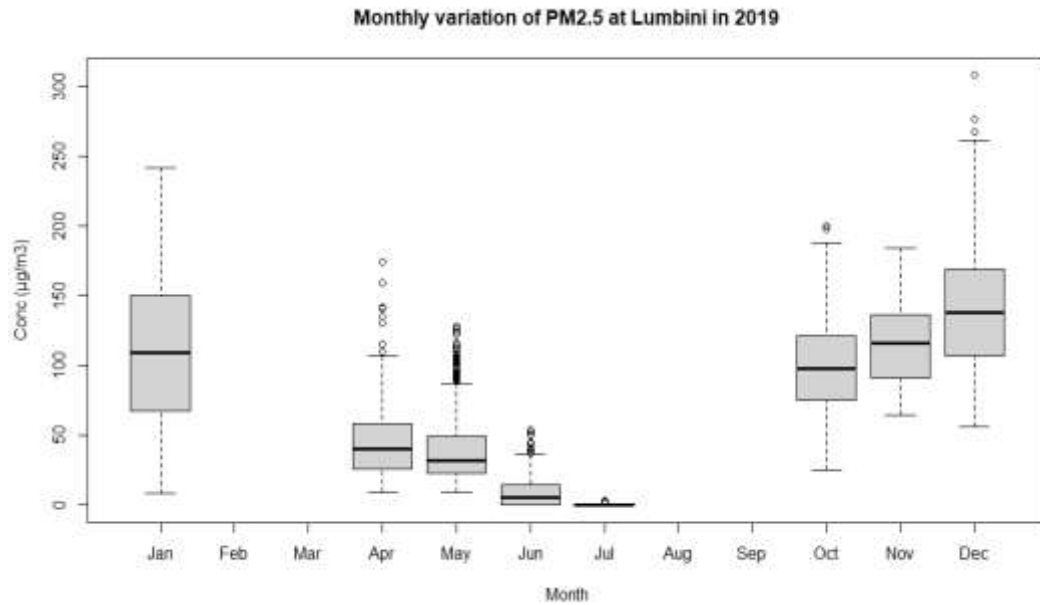


Figure 60: Monthly Variation of PM_{2.5}

Seasonal variation of PM_{2.5}

Due to lack of data, seasonal variation of PM_{2.5} could not be calculated.

Diurnal variation of PM_{2.5}

The diurnal variation of average PM_{2.5} concentrations can be shown in the figure below

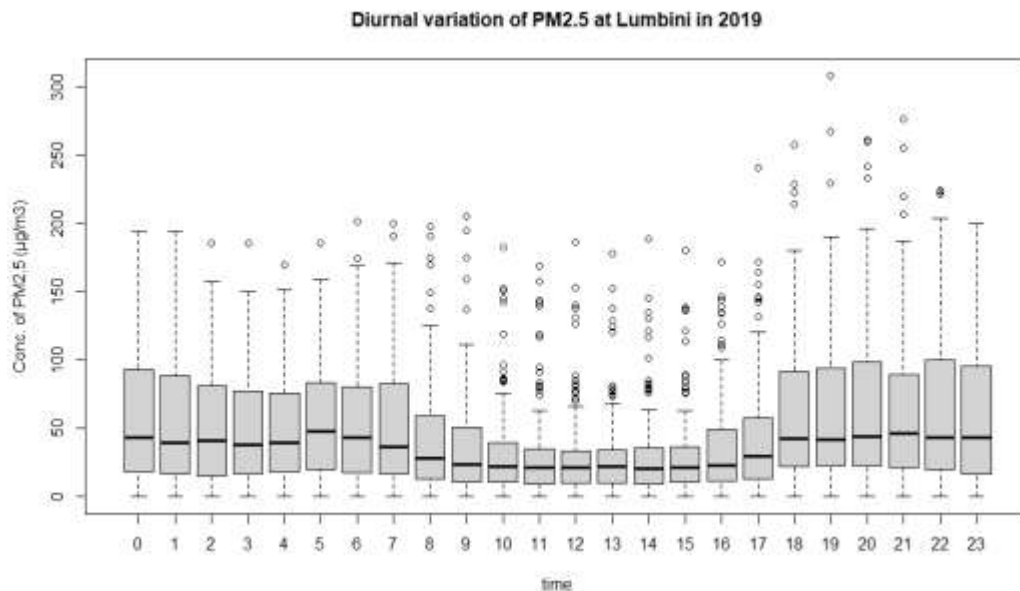


Figure 61. The variation in PM_{2.5} concentration was high at around 11 pm to 2 am and low at 12pm and 1pm.

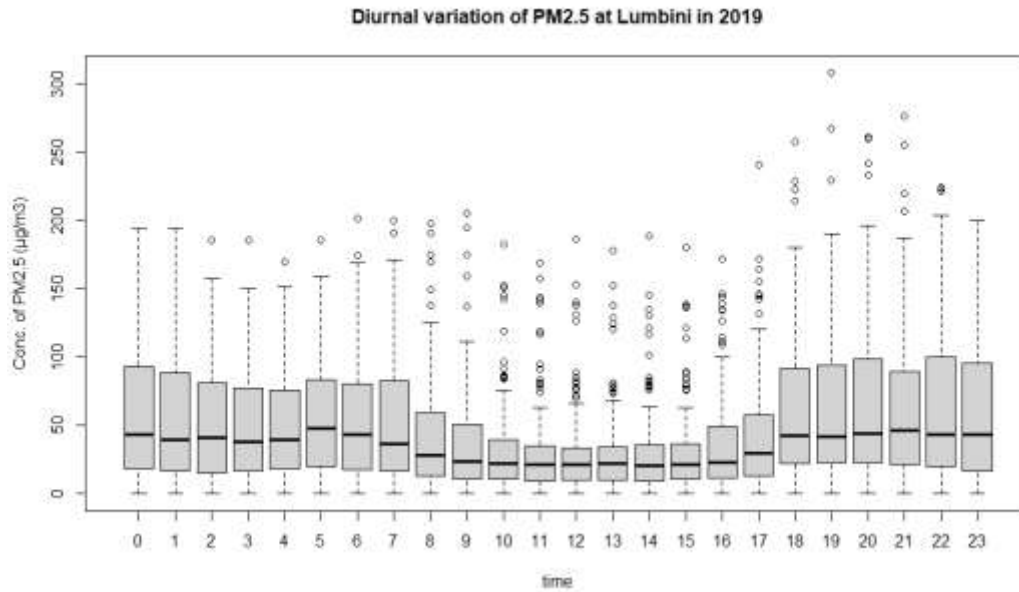


Figure 61: Diurnal Variation of PM_{2.5}

Compliance status of PM_{2.5}

The total days of PM_{2.5} monitored in the year 2019 counts 103, of which 50 days exceeded the NAAQS guideline.

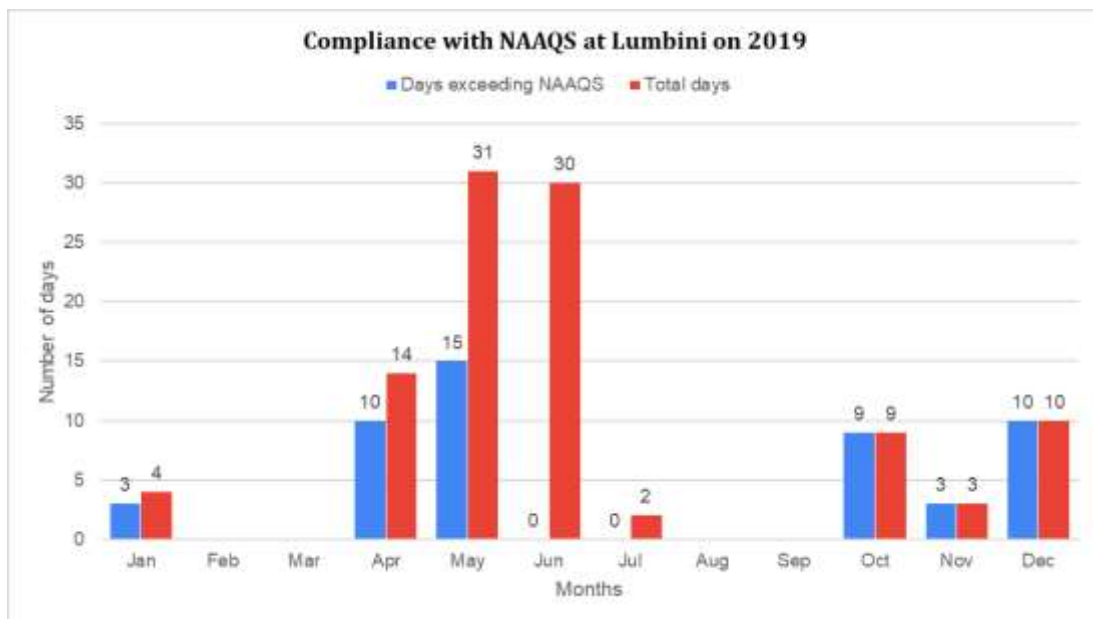


Figure 62: Compliance status of PM_{2.5}

2.4.4 Temporal variation of PM₁₀

Annual average of PM₁₀

Since the data for May and June were valid for analysis, the annual average of PM₁₀ could not be calculated.

Daily average of PM₁₀

Daily average concentration of PM₁₀ given in the figure below

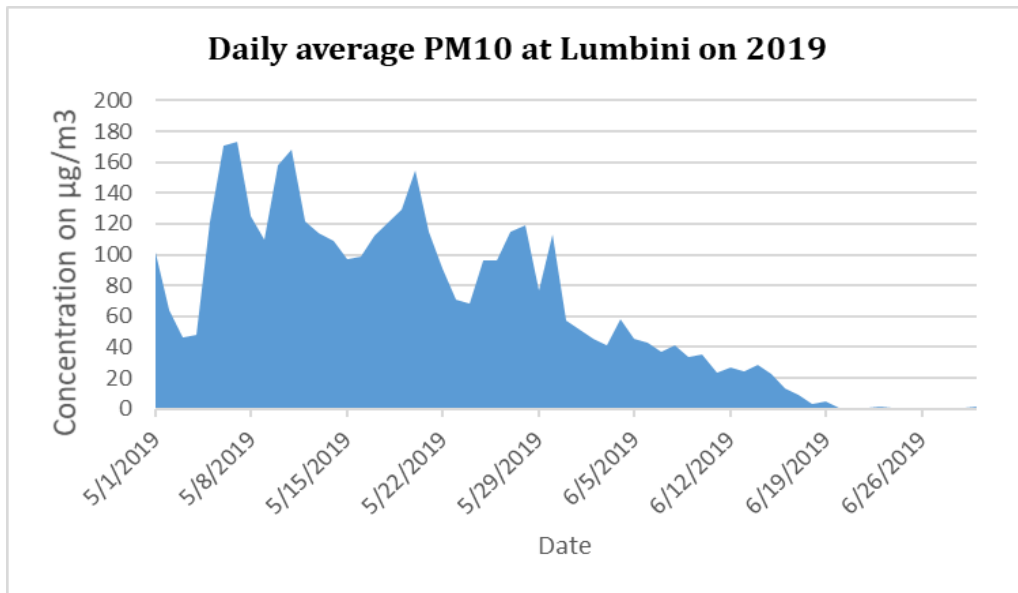


Figure 63.

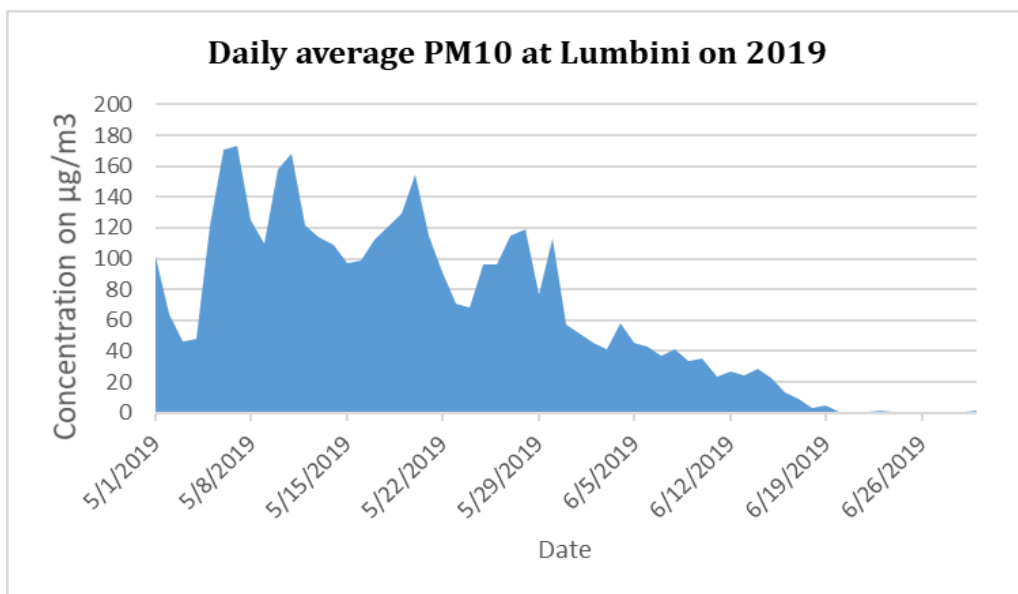


Figure 63: Daily average of PM₁₀

Monthly average of PM₁₀

The monthly average for PM₁₀ is shown in the figure below. It is to be noted that only May and June were valid to be considered for monthly average.

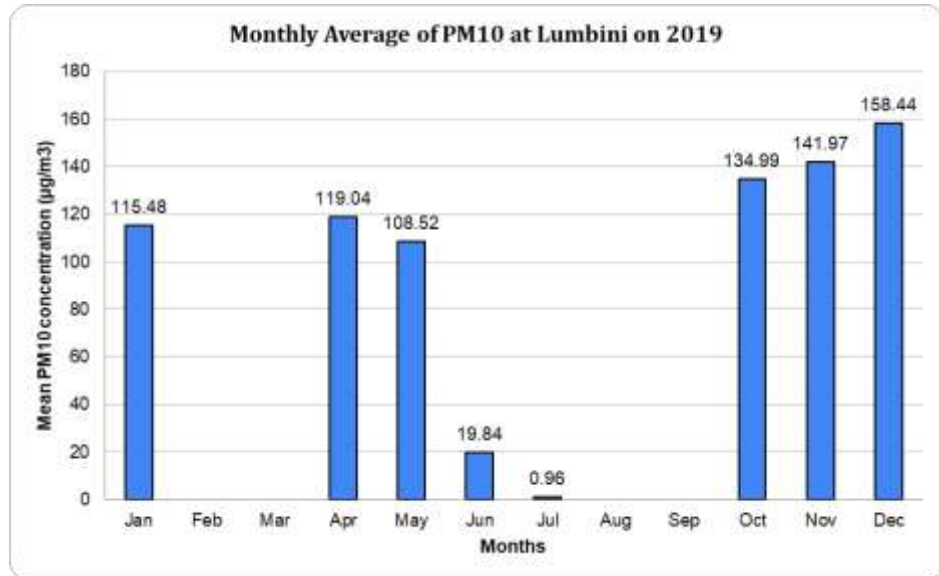


Figure 64: Monthly Average of PM₁₀

Monthly variation of PM₁₀

Variation in concentration of PM₁₀ is shown in the figure below.

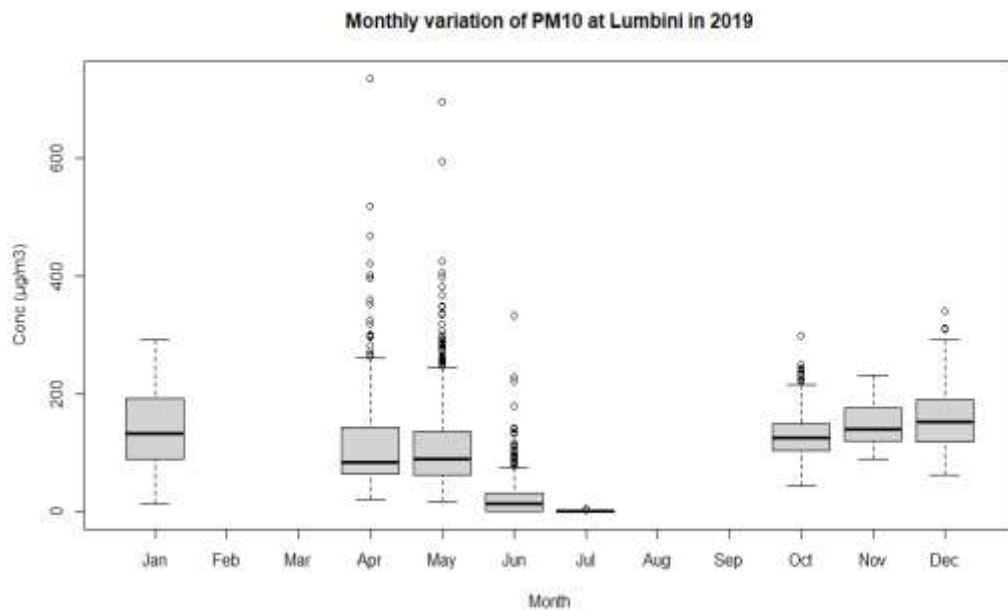


Figure 65: Monthly Variation of PM₁₀

Seasonal variation of PM₁₀

Due to lack of data, seasonal variation could not be calculated.

Diurnal variation of PM₁₀

The diurnal variation of average PM₁₀ concentrations can be shown in the figure below

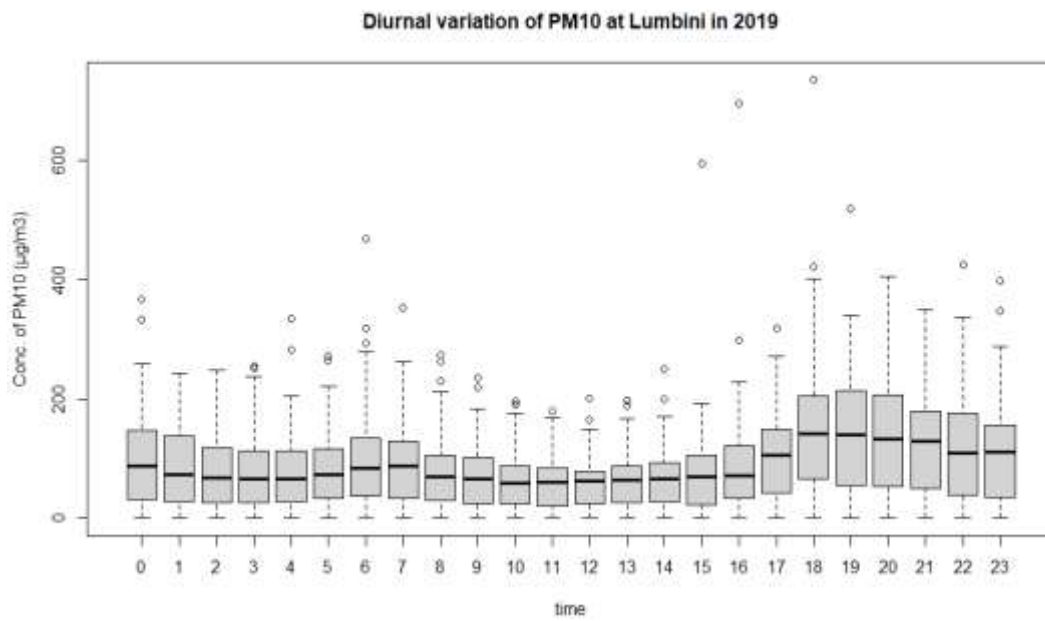


Figure 66. The variation in PM₁₀ concentration was high at around 8 pm and low at 12 pm.

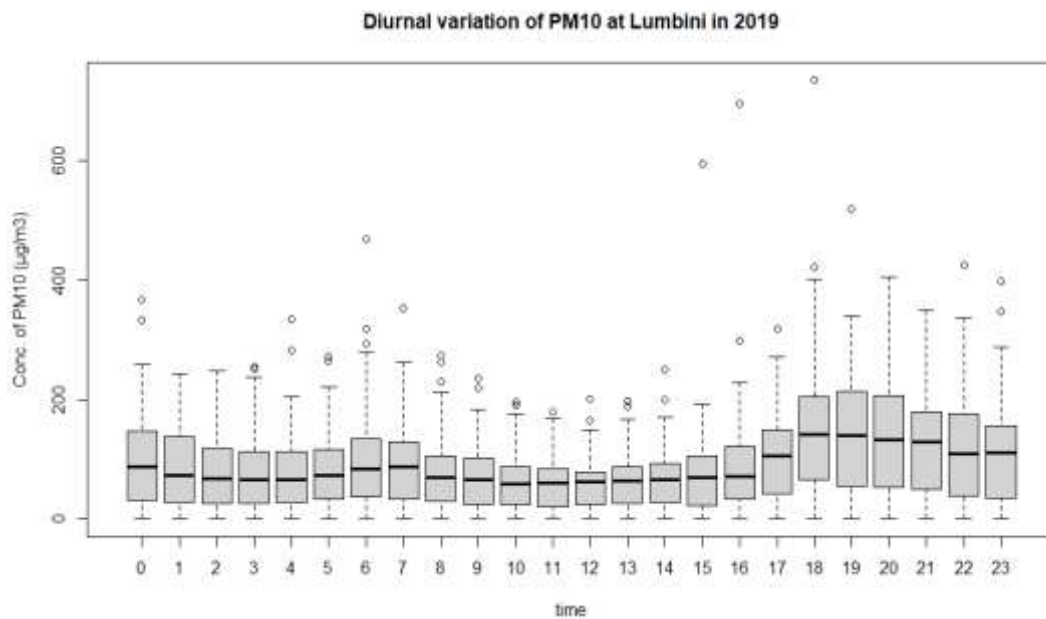


Figure 66: Diurnal Variation of PM₁₀

Compliance status of PM₁₀

The total days of PM₁₀ monitored in the year 2019 counts 103 of which 77 days exceed the NAAQS guideline.

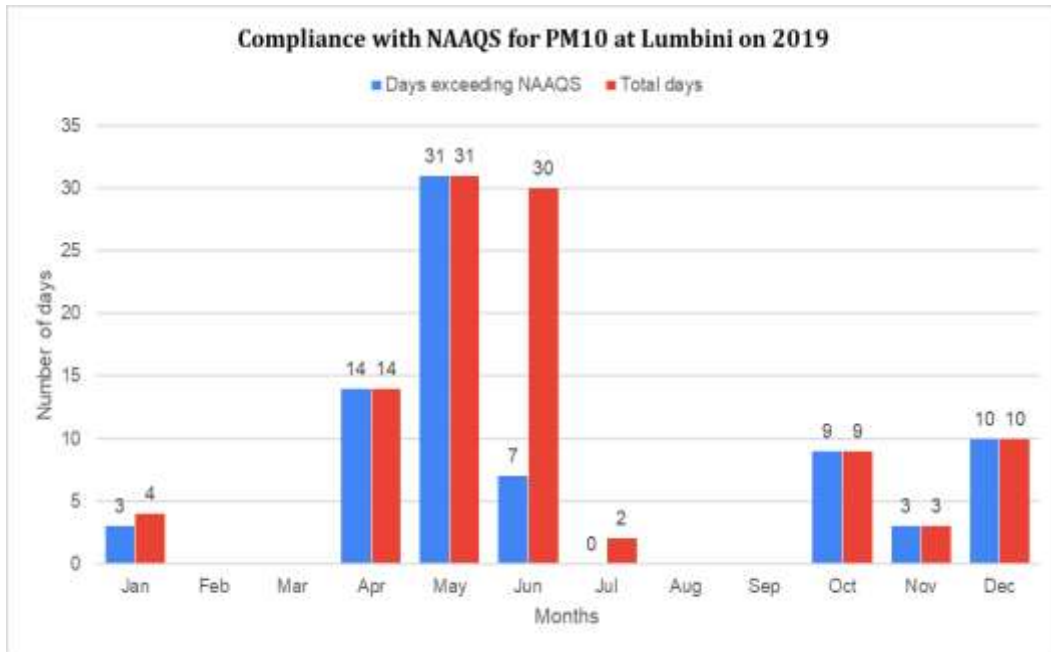


Figure 67: Compliance status of PM₁₀

2.5 Air Quality Status, 2020

2.5.1 Annual average of PM₁, PM_{2.5}, PM₁₀

Since the data of PM₁, PM_{2.5} and PM₁₀ for the year 2020 was recorded for one month only, their annual average could not be calculated.

2.5.2 *Error! No sequence specified.* For PM₁

Annual average of PM₁

Since the data of PM₁ for the year 2020 was recorded for one month only, the annual average could not be calculated.

Daily average of PM₁

Daily average concentration of PM₁ for the month April is given in the figure below.

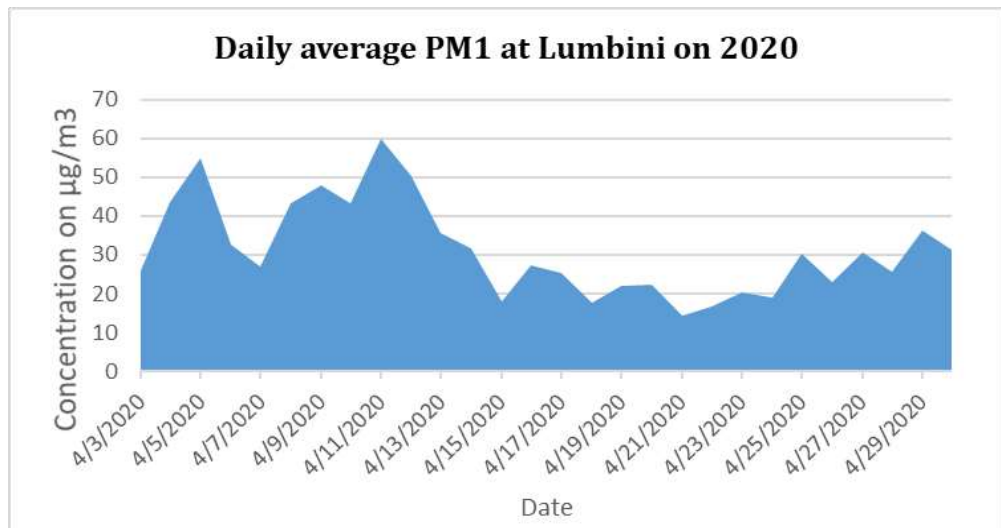


Figure 68: Daily average of PM₁

Monthly average of PM₁

The monthly average concentration for PM₁ is shown in the figure below.

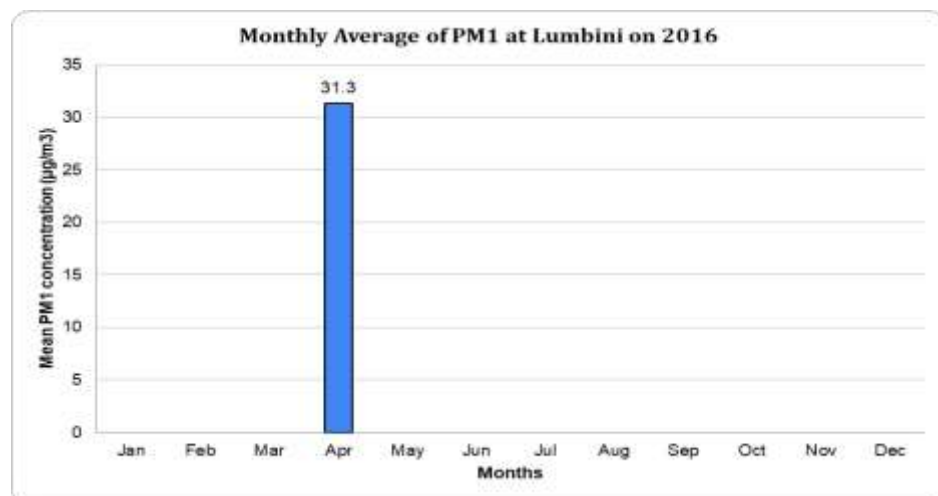


Figure 69: Monthly Average of PM₁

Monthly variation of PM₁

Since the data of single month is available monthly variation could not be calculated.

Seasonal variation of PM₁

Due to lack of data, seasonal variation could not be calculated.

Diurnal variation of PM₁

The diurnal variation of average PM₁ concentrations can be shown in the figure below

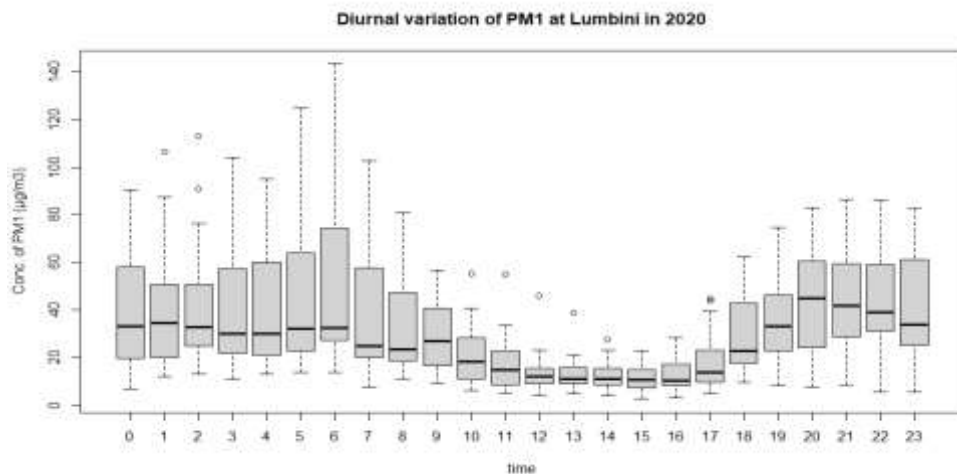


Figure 70. The variation in PM₁ concentration was high at around 6 am and low at 1 pm.

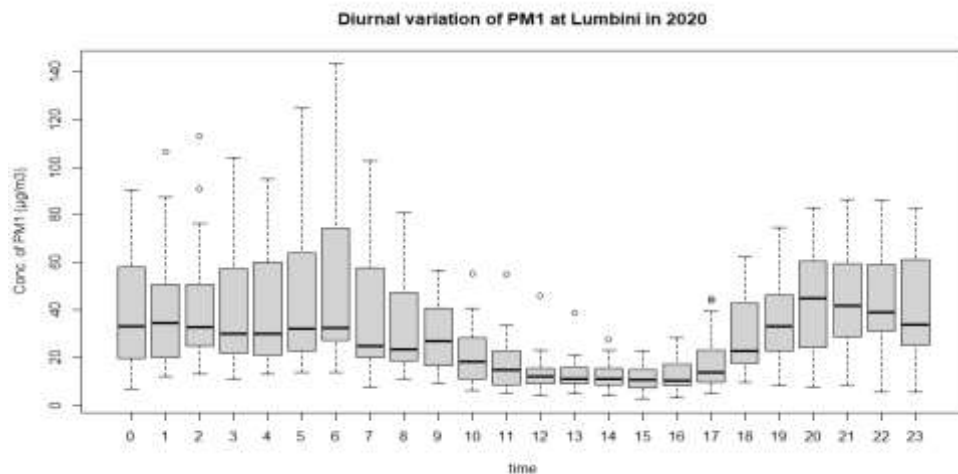


Figure 70: Diurnal Variation of PM₁

2.5.3 Temporal variation of PM_{2.5}

Annual average of PM_{2.5}

Since the data of PM_{2.5} for the year 2020 was recorded for one monthly only, the annual average could not be calculated.

Daily average of PM_{2.5}

Daily average concentration of PM_{2.5} given in

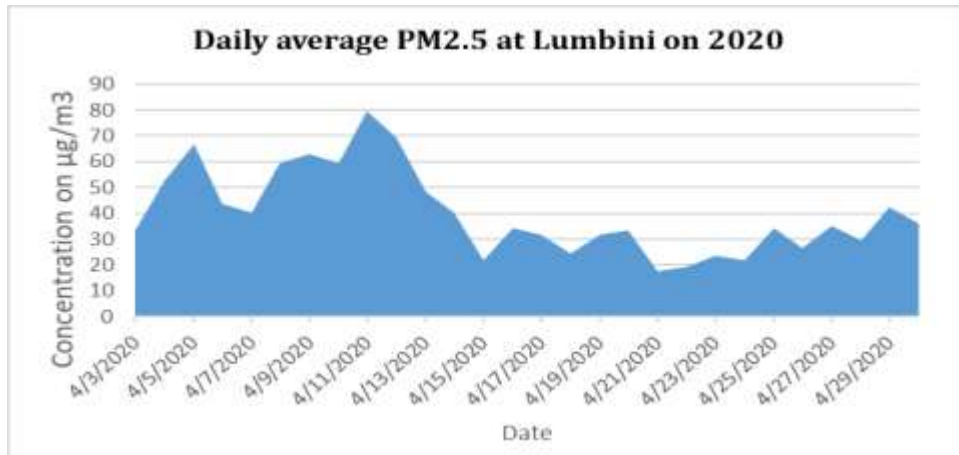


Figure 71the

figure below.

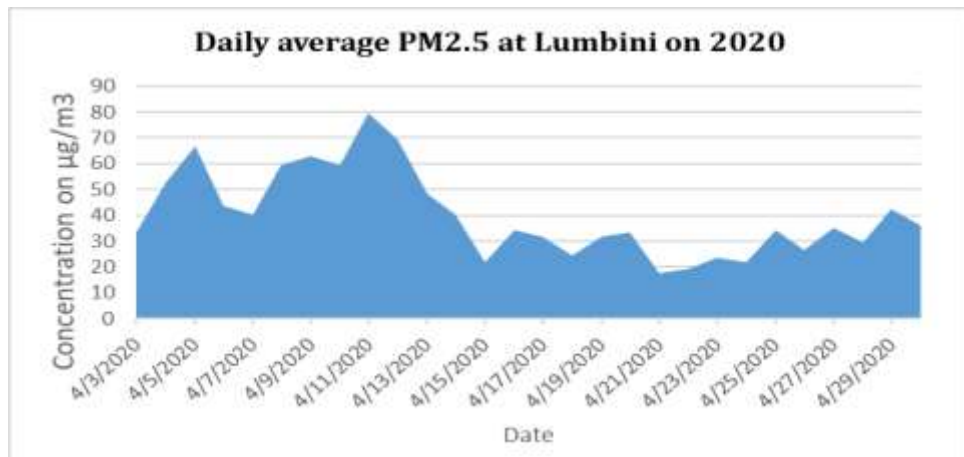


Figure 71: Daily average of PM_{2.5}

Monthly average of PM_{2.5}

The monthly average concentration for PM_{2.5} is shown in the figure below.



Figure 72: Monthly Average of PM_{2.5}

Monthly variation of PM_{2.5}

Due to lack of data, monthly variation in concentration of PM_{2.5} could not be calculated.

Seasonal variation of PM_{2.5}

Due to lack of data, seasonal variation of PM_{2.5} could not be calculated.

Diurnal variation of PM_{2.5}

The diurnal variation of average PM_{2.5} concentrations can be shown in the figure below. The variation in PM_{2.5} concentration was high at around 6 am and low at 1pm and 2 pm.

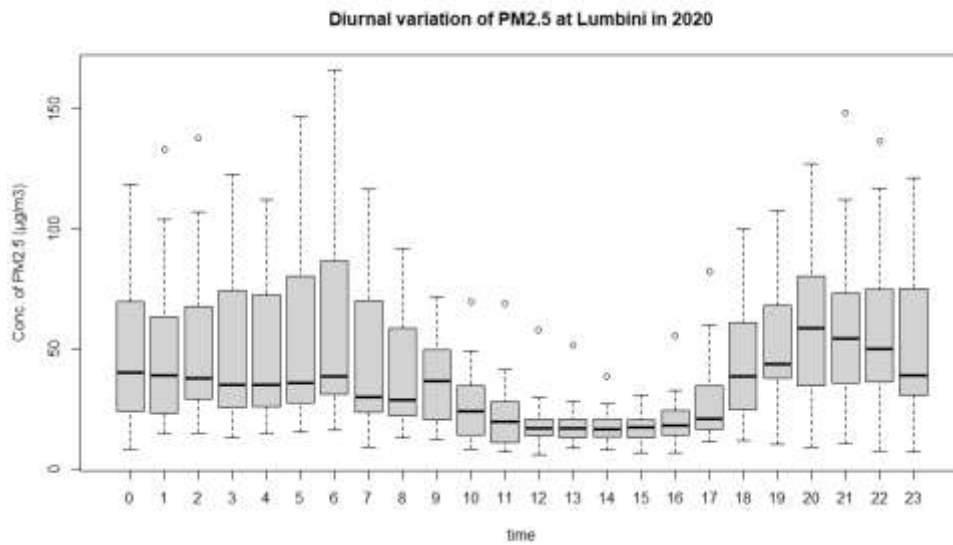


Figure 73: Diurnal Variation of PM_{2.5}

Compliance status of PM_{2.5}

The total days of PM_{2.5} monitored in the year 2020 counts 28, of which 12 days exceeded the NAAQS guideline.

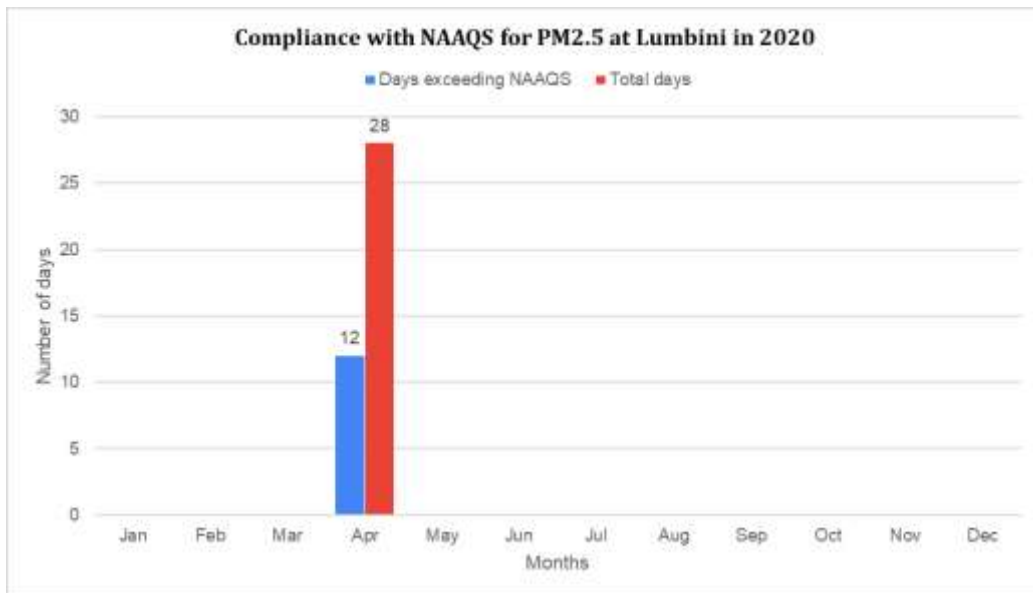


Figure 74: Compliance status of PM_{2.5}

2.5.4 Temporal variation of PM₁₀

Annual average of PM₁₀

Since the data of PM₁₀ for the year 2020 was recorded for one monthly only, the annual average could not be calculated.

Daily average of PM₁₀

Daily average concentration of PM₁₀ given in the figure below.

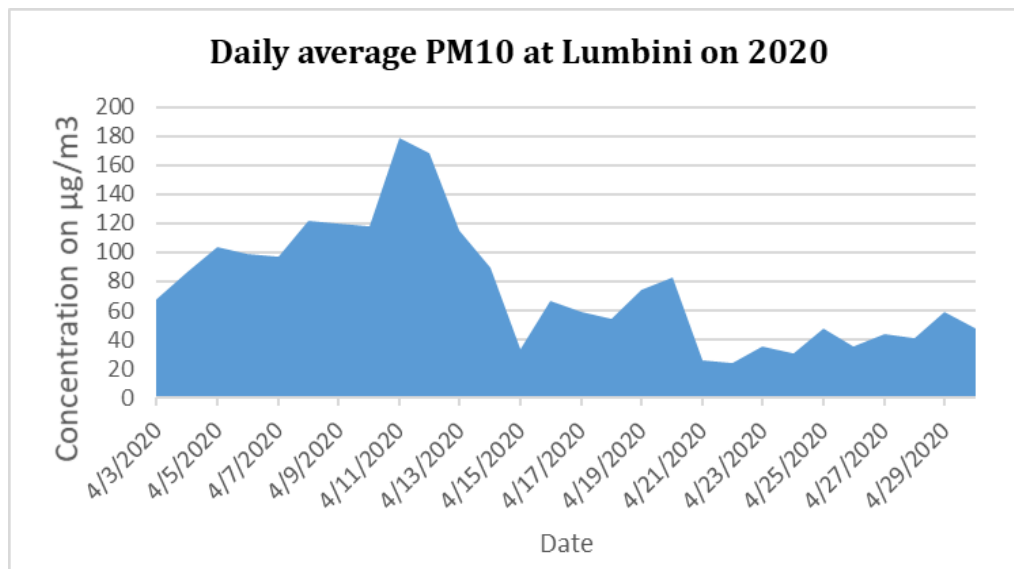


Figure 75: Daily average of PM₁₀

Monthly average of PM₁₀

The monthly average concentration for PM₁₀ is shown in the

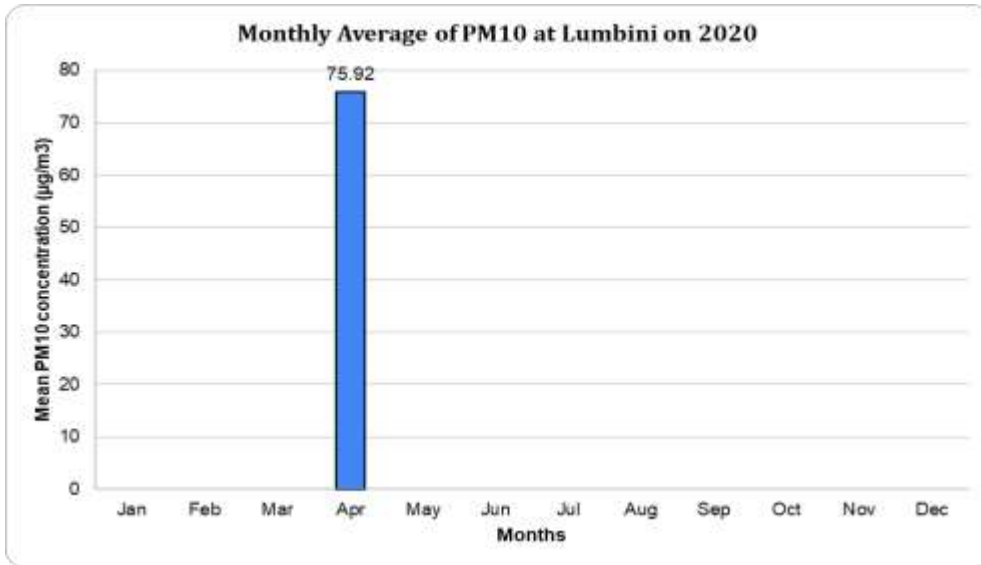


Figure 76figure below.

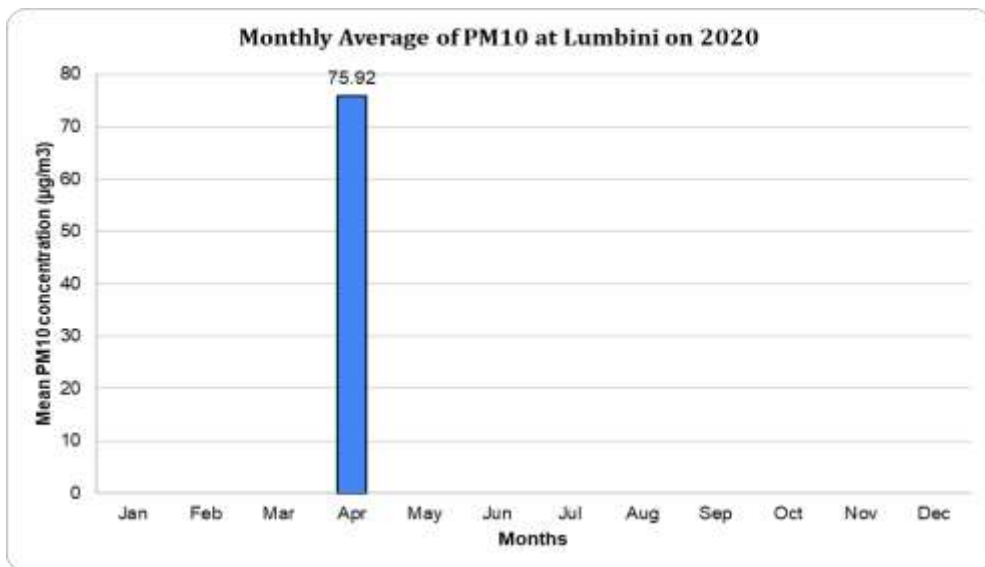


Figure 76: Monthly Average of PM₁₀

Monthly variation of PM₁₀

Due to lack of data, the monthly variation of PM₁₀ could not be calculated.

Seasonal variation of PM₁₀

Due to lack of data, seasonal variation could not be calculated.

Diurnal variation of PM₁₀

The diurnal variation of average PM₁₀ concentrations can be shown in the figure below. The variation in PM₁₀ concentration was high at around 6 pm and low at 1 pm.

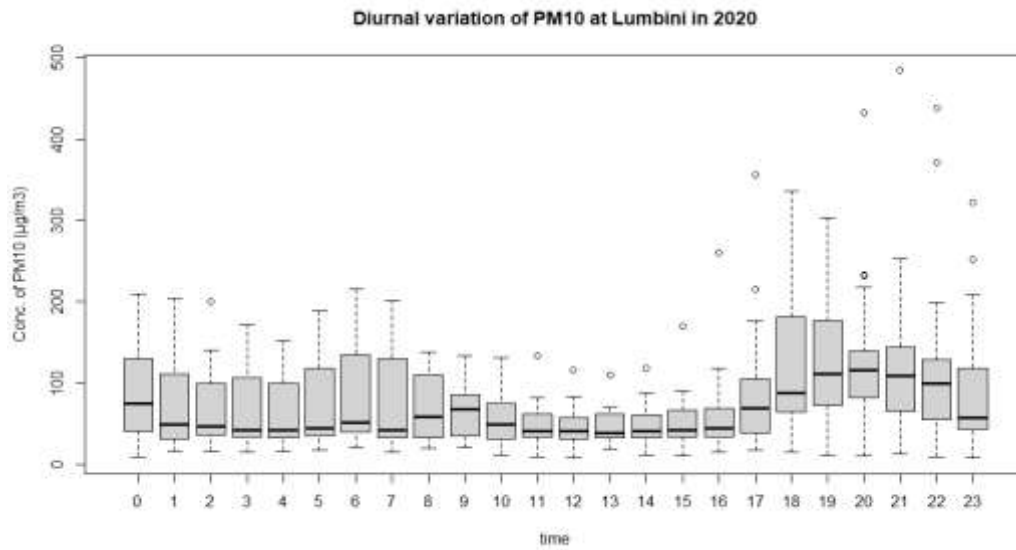


Figure 77: Diurnal Variation of PM₁₀

Compliance status of PM₁₀

The total days of PM₁₀ monitored in the year 2020 counts 28 of which 22 days exceed the NAAQS guideline.

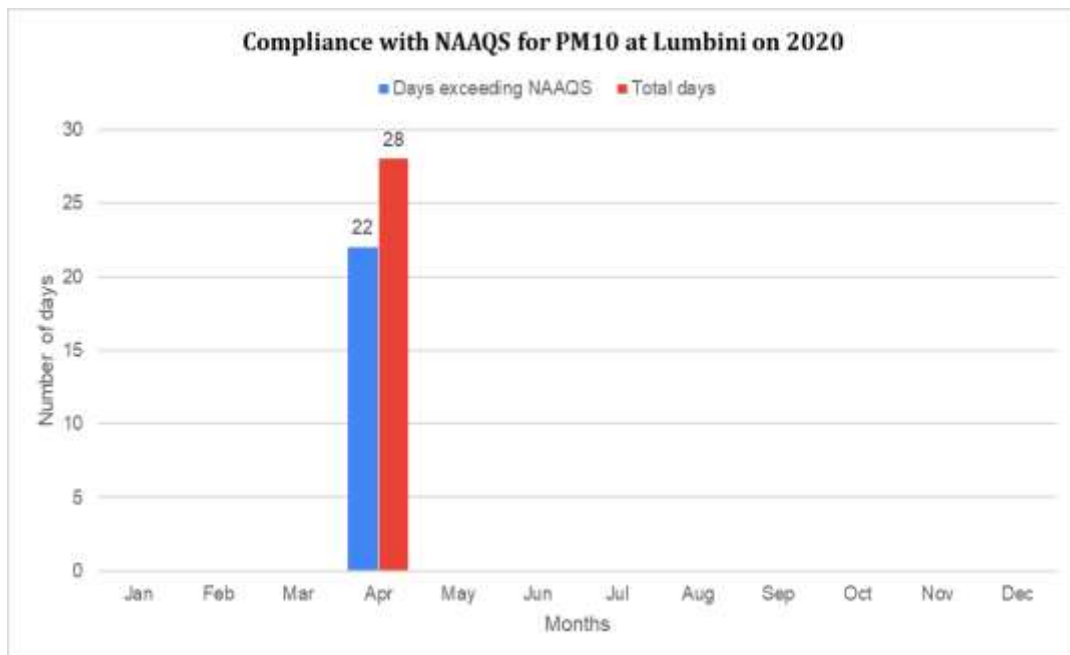


Figure 78: Compliance status of PM₁₀

Annex

PM₁ daily

Date	Value	Date	Value	Date	Value	Date	Value	Date	Value
1/1/2016		1/1/2017		1/1/2018	69.19167	1/1/2019		1/1/2020	
1/2/2016		1/2/2017	118.3085	1/2/2018	80.83049	1/2/2019		1/2/2020	
1/3/2016		1/3/2017	106.0001	1/3/2018	88.51181	1/3/2019		1/3/2020	
1/4/2016		1/4/2017	126.0645	1/4/2018	87.72965	1/4/2019	140.4279	1/4/2020	
1/5/2016		1/5/2017	83.60793	1/5/2018	87.86385	1/5/2019	93.39921	1/5/2020	
1/6/2016		1/6/2017	94.44752	1/6/2018	84.53979	1/6/2019	101.3244	1/6/2020	
1/7/2016		1/7/2017	118.5381	1/7/2018	104.1247	1/7/2019		1/7/2020	
1/8/2016		1/8/2017	78.98559	1/8/2018	102.0809	1/8/2019		1/8/2020	
1/9/2016		1/9/2017	99.28622	1/9/2018	126.3179	1/9/2019		1/9/2020	
1/10/2016		1/10/2017	73.67272	1/10/2018	106.7189	1/10/2019		1/10/2020	
1/11/2016		1/11/2017	99.46458	1/11/2018	75.31333	1/11/2019		1/11/2020	
1/12/2016		1/12/2017	130.3243	1/12/2018	88.59921	1/12/2019		1/12/2020	
1/13/2016		1/13/2017	130.6739	1/13/2018	99.29832	1/13/2019		1/13/2020	
1/14/2016		1/14/2017	161.7784	1/14/2018	88.8746	1/14/2019		1/14/2020	
1/15/2016		1/15/2017	155.352	1/15/2018	71.53153	1/15/2019		1/15/2020	
1/16/2016		1/16/2017	135.993	1/16/2018	66.60076	1/16/2019		1/16/2020	
1/17/2016		1/17/2017	106.5327	1/17/2018	64.80921	1/17/2019		1/17/2020	
1/18/2016		1/18/2017	113.6376	1/18/2018	90.73692	1/18/2019		1/18/2020	
1/19/2016		1/19/2017	91.45868	1/19/2018	90.02507	1/19/2019		1/19/2020	
1/20/2016		1/20/2017	95.85707	1/20/2018	70.1784	1/20/2019		1/20/2020	
1/21/2016		1/21/2017	123.1164	1/21/2018	77.89378	1/21/2019		1/21/2020	
1/22/2016		1/22/2017	116.4892	1/22/2018	117.3364	1/22/2019		1/22/2020	

1/23/2016	1/23/2017	127.4213	1/23/2018	128.5454	1/23/2019	1/23/2020
1/24/2016	1/24/2017	120.162	1/24/2018	56.88975	1/24/2019	1/24/2020
1/25/2016	1/25/2017	98.51229	1/25/2018	92.62389	1/25/2019	1/25/2020
1/26/2016	1/26/2017	85.80409	1/26/2018	102.1212	1/26/2019	9.035714 1/26/2020
1/27/2016	1/27/2017	50.574	1/27/2018	102.9165	1/27/2019	1/27/2020
1/28/2016	1/28/2017	31.99847	1/28/2018	104.0457	1/28/2019	1/28/2020
1/29/2016	1/29/2017	67.4216	1/29/2018	101.4297	1/29/2019	1/29/2020
1/30/2016	1/30/2017	55.20337	1/30/2018	108.9029	1/30/2019	1/30/2020
1/31/2016	1/31/2017	48.68972	1/31/2018	107.7479	1/31/2019	1/31/2020
2/1/2016	2/1/2017	75.60125	2/1/2018	107.603	2/1/2019	2/1/2020
2/2/2016	2/2/2017	94.5498	2/2/2018	104.8952	2/2/2019	2/2/2020
2/3/2016	2/3/2017	91.56778	2/3/2018	102.4402	2/3/2019	2/3/2020
2/4/2016	2/4/2017	91.73139	2/4/2018	74.83194	2/4/2019	2/4/2020
2/5/2016	2/5/2017	76.07792	2/5/2018	94.18398	2/5/2019	2/5/2020
2/6/2016	2/6/2017	75.81757	2/6/2018	141.5329	2/6/2019	2/6/2020
2/7/2016	2/7/2017	64.72653	2/7/2018	110.5453	2/7/2019	2/7/2020
2/8/2016	2/8/2017	79.87979	2/8/2018	77.25569	2/8/2019	2/8/2020
2/9/2016	2/9/2017	87.1366	2/9/2018	60.93687	2/9/2019	2/9/2020
2/10/2016	2/10/2017	73.36861	2/10/2018	62.21205	2/10/2019	2/10/2020
2/11/2016	2/11/2017	96.93215	2/11/2018	90.06224	2/11/2019	2/11/2020
2/12/2016	2/12/2017	87.50306	2/12/2018	77.83111	2/12/2019	2/12/2020
2/13/2016	2/13/2017	93.61979	2/13/2018	44.30285	2/13/2019	2/13/2020
2/14/2016	2/14/2017	83.38986	2/14/2018	46.39087	2/14/2019	2/14/2020
2/15/2016	2/15/2017	119.8468	2/15/2018	71.34846	2/15/2019	2/15/2020
2/16/2016	2/16/2017	113.7904	2/16/2018	89.80111	2/16/2019	2/16/2020
2/17/2016	2/17/2017	100.1418	2/17/2018	93.81169	2/17/2019	2/17/2020

2/18/2016	2/18/2017	85.70215	2/18/2018	89.65823	2/18/2019	2/18/2020
2/19/2016	2/19/2017	90.28278	2/19/2018	71.63006	2/19/2019	2/19/2020
2/20/2016	2/20/2017	111.2367	2/20/2018	72.61486	2/20/2019	2/20/2020
2/21/2016	2/21/2017	84.14625	2/21/2018	74.92076	2/21/2019	2/21/2020
2/22/2016	2/22/2017	55.11514	2/22/2018	91.00188	2/22/2019	2/22/2020
2/23/2016	2/23/2017	46.84069	2/23/2018	82.44744	2/23/2019	2/23/2020
2/24/2016	2/24/2017	57.27941	2/24/2018	79.87054	2/24/2019	2/24/2020
2/25/2016	2/25/2017	76.16778	2/25/2018	69.35268	2/25/2019	2/25/2020
2/26/2016	2/26/2017	82.42875	2/26/2018	54.7002	2/26/2019	2/26/2020
2/27/2016	2/27/2017	83.67694	2/27/2018	60.4422	2/27/2019	2/27/2020
2/28/2016	2/28/2017	104.2824	2/28/2018	67.08354	2/28/2019	2/28/2020
2/29/2016	3/1/2017	94.4525	3/1/2018	66.29014	3/1/2019	2/29/2020
3/1/2016	3/2/2017	68.43243	3/2/2018	59.38639	3/2/2019	3/1/2020
3/2/2016	3/3/2017	25.78569	3/3/2018	37.66447	3/3/2019	3/2/2020
3/3/2016	3/4/2017	27.23632	3/4/2018	31.98113	3/4/2019	3/3/2020
3/4/2016	3/5/2017	39.56694	3/5/2018	28.16502	3/5/2019	3/4/2020
3/5/2016	3/6/2017	56.65681	3/6/2018	27.4928	3/6/2019	3/5/2020
3/6/2016	3/7/2017	56.23882	3/7/2018	37.14153	3/7/2019	3/6/2020
3/7/2016	3/8/2017	63.8616	3/8/2018	49.60204	3/8/2019	3/7/2020
3/8/2016	3/9/2017	44.81396	3/9/2018	45.89917	3/9/2019	3/8/2020
3/9/2016	3/10/2017	27.70611	3/10/2018	47.51971	3/10/2019	3/9/2020
3/10/2016	3/11/2017	12.7587	3/11/2018	45.38992	3/11/2019	3/10/2020
3/11/2016	3/12/2017	19.66819	3/12/2018	52.70319	3/12/2019	3/11/2020
3/12/2016	3/13/2017	46.04896	3/13/2018	52.94598	3/13/2019	3/12/2020
3/13/2016	3/14/2017	52.32035	3/14/2018	50.02375	3/14/2019	3/13/2020
3/14/2016	3/15/2017	48.0178	3/15/2018	53.10478	3/15/2019	3/14/2020

3/15/2016	3/16/2017	59.35472	3/16/2018	21.16655	3/16/2019	3/15/2020	
3/16/2016	3/17/2017	45.99597	3/17/2018	24.21889	3/17/2019	3/16/2020	
3/17/2016	3/18/2017	32.28229	3/18/2018	27.55508	3/18/2019	3/17/2020	
3/18/2016	3/19/2017	42.50806	3/19/2018	48.47565	3/19/2019	3/18/2020	
3/19/2016	3/20/2017	41.42319	3/20/2018	41.87513	3/20/2019	3/19/2020	
3/20/2016	3/21/2017	46.74618	3/21/2018	52.29604	3/21/2019	3/20/2020	
3/21/2016	3/22/2017	51.2973	3/22/2018	28.98939	3/22/2019	3/21/2020	
3/22/2016	3/23/2017	57.2078	3/23/2018	25.10673	3/23/2019	3/22/2020	
3/23/2016	3/24/2017	57.29617	3/24/2018	24.94852	3/24/2019	3/23/2020	
3/24/2016	3/25/2017	45.29076	3/25/2018	33.05167	3/25/2019	3/24/2020	
3/25/2016	3/26/2017	34.94507	3/26/2018	28.95722	3/26/2019	3/25/2020	
3/26/2016	3/27/2017	41.38819	3/27/2018	41.66806	3/27/2019	3/26/2020	
3/27/2016	3/28/2017	45.30278	3/28/2018	42.38056	3/28/2019	3/27/2020	
3/28/2016	3/29/2017	32.00618	3/29/2018	34.69472	3/29/2019	3/28/2020	
3/29/2016	3/30/2017	30.81535	3/30/2018	29.14232	3/30/2019	3/29/2020	
3/30/2016	3/31/2017	27.77153	3/31/2018	16.74826	3/31/2019	3/30/2020	
3/31/2016	4/1/2017	38.46215	4/1/2018	21.88497	4/1/2019	3/31/2020	
4/1/2016	4/2/2017	20.74924	4/2/2018	25.08328	4/2/2019	4/1/2020	
4/2/2016	4/3/2017	23.75778	4/3/2018	26.69863	4/3/2019	4/2/2020	
4/3/2016	4/4/2017	22.40542	4/4/2018	24.68916	4/4/2019	4/3/2020	25.98353
4/4/2016	4/5/2017	15.28979	4/5/2018	12.56581	4/5/2019	4/4/2020	43.6066
4/5/2016	4/6/2017	20.2658	4/6/2018	20.0737	4/6/2019	4/5/2020	55.02366
4/6/2016	4/7/2017	23.88048	4/7/2018	13.44048	4/7/2019	4/6/2020	32.71299
4/7/2016	4/8/2017	17.42057	4/8/2018	26.12601	4/8/2019	4/7/2020	26.99106
4/8/2016	4/9/2017	27.50318	4/9/2018	19.45075	4/9/2019	4/8/2020	43.19717
4/9/2016	4/10/2017	27.03913	4/10/2018	18.75153	4/10/2019	4/9/2020	47.98433

4/10/2016	4/11/2017	47.95694	4/11/2018	24.55272	4/11/2019		4/10/2020	43.30964
4/11/2016	4/12/2017	83.95927	4/12/2018	25.24914	4/12/2019		4/11/2020	59.74877
4/12/2016	4/13/2017	70.86004	4/13/2018	15.89046	4/13/2019		4/12/2020	50.36011
4/13/2016	4/14/2017	65.19583	4/14/2018	15.73348	4/14/2019		4/13/2020	35.51907
4/14/2016	4/15/2017	26.8355	4/15/2018	34.08048	4/15/2019		4/14/2020	31.55051
4/15/2016	4/16/2017	23.61861	4/16/2018	23.69389	4/16/2019		4/15/2020	18.16539
4/16/2016	4/17/2017	27.66917	4/17/2018	18.32509	4/17/2019	22.04729	4/16/2020	27.35045
4/17/2016	4/18/2017	32.20618	4/18/2018	16.71417	4/18/2019	19.08368	4/17/2020	25.2314
4/18/2016	4/19/2017	37.01437	4/19/2018	15.72416	4/19/2019	20.4179	4/18/2020	17.80429
4/19/2016	4/20/2017	17.75243	4/20/2018	18.99139	4/20/2019	29.51567	4/19/2020	21.97396
4/20/2016	4/21/2017	18.22903	4/21/2018	18.91314	4/21/2019	49.2909	4/20/2020	22.27605
4/21/2016	4/22/2017	20.28241	4/22/2018	15.07431	4/22/2019	30.69063	4/21/2020	14.22375
4/22/2016	4/23/2017		4/23/2018	24.08153	4/23/2019	28.19366	4/22/2020	16.74158
4/23/2016	4/24/2017		4/24/2018	57.52237	4/24/2019	30.47156	4/23/2020	20.32856
4/24/2016	4/25/2017		4/25/2018	41.04675	4/25/2019	33.99323	4/24/2020	19.10987
4/25/2016	4/26/2017	15.97635	4/26/2018	21.24611	4/26/2019	35.08104	4/25/2020	30.38165
4/26/2016	4/27/2017	31.02793	4/27/2018	12.48572	4/27/2019	24.55944	4/26/2020	23.03733
4/27/2016	4/28/2017	31.74332	4/28/2018	15.73952	4/28/2019	34.21701	4/27/2020	30.77662
4/28/2016	4/29/2017	34.98884	4/29/2018	14.11546	4/29/2019	25.74964	4/28/2020	25.53493
4/29/2016	4/30/2017	27.61463	4/30/2018	7.227921	4/30/2019	27.45397	4/29/2020	36.3666
4/30/2016	5/1/2017	22.69153	5/1/2018	11.11261	5/1/2019	21.9016	4/30/2020	31.14082
5/1/2016	5/2/2017	36.00068	5/2/2018	12.78729	5/2/2019	13.42396	5/1/2020	15.75817
5/2/2016	5/3/2017	36.06071	5/3/2018	9.207708	5/3/2019	15.73813	5/2/2020	
5/3/2016	5/4/2017	28.88695	5/4/2018	13.09826	5/4/2019	16.62607	5/3/2020	
5/4/2016	5/5/2017	23.80067	5/5/2018	13.16168	5/5/2019	30.16609	5/4/2020	
5/5/2016	5/6/2017	34.27407	5/6/2018	25.84425	5/6/2019	35.52607	5/5/2020	

5/6/2016	5/7/2017	22.61834	5/7/2018	23.74729	5/7/2019	41.1867	5/6/2020
5/7/2016	5/8/2017	23.31288	5/8/2018	21.99604	5/8/2019	39.38792	5/7/2020
5/8/2016	5/9/2017	15.28379	5/9/2018	14.57652	5/9/2019	34.67393	5/8/2020
5/9/2016	5/10/2017	16.37205	5/10/2018	24.16296	5/10/2019	47.99344	5/9/2020
5/10/2016	5/11/2017	20.72662	5/11/2018	19.54868	5/11/2019	37.63958	5/10/2020
5/11/2016	5/12/2017	19.33122	5/12/2018	13.01847	5/12/2019	18.09722	5/11/2020
5/12/2016	5/13/2017	18.95647	5/13/2018	14.5458	5/13/2019	22.38494	5/12/2020
5/13/2016	5/14/2017	18.31604	5/14/2018	7.02625	5/14/2019	29.29785	5/13/2020
5/14/2016	5/15/2017	16.06763	5/15/2018	12.07611	5/15/2019	30.40202	5/14/2020
5/15/2016	5/16/2017	11.09815	5/16/2018	19.76347	5/16/2019	22.37172	5/15/2020
5/16/2016	5/17/2017	10.29437	5/17/2018	17.0933	5/17/2019	22.48775	5/16/2020
5/17/2016	5/18/2017	17.20461	5/18/2018	17.60792	5/18/2019	18.68931	5/17/2020
5/18/2016	5/19/2017	16.69065	5/19/2018	13.14951	5/19/2019	22.87325	5/18/2020
5/19/2016	5/20/2017	19.85175	5/20/2018	13.04479	5/20/2019	32.44104	5/19/2020
5/20/2016	5/21/2017	18.29711	5/21/2018	17.74667	5/21/2019	25.14849	5/20/2020
5/21/2016	5/22/2017	20.34764	5/22/2018	16.2141	5/22/2019	20.76981	5/21/2020
5/22/2016	5/23/2017	18.18197	5/23/2018	15.65799	5/23/2019	17.3566	5/22/2020
5/23/2016	5/24/2017	23.17753	5/24/2018	11.87418	5/24/2019	15.48254	5/23/2020
5/24/2016	5/25/2017	21.077	5/25/2018	16.30958	5/25/2019	12.53127	5/24/2020
5/25/2016	5/26/2017	11.41224	5/26/2018	17.54694	5/26/2019	15.35103	5/25/2020
5/26/2016	5/27/2017		5/27/2018	17.54972	5/27/2019	25.5759	5/26/2020
5/27/2016	5/28/2017		5/28/2018	14.53983	5/28/2019	20.41489	5/27/2020
5/28/2016	5/29/2017	17.44025	5/29/2018	13.41389	5/29/2019	16.62995	5/28/2020
5/29/2016	5/30/2017	14.72715	5/30/2018	13.50311	5/30/2019	15.53653	5/29/2020
5/30/2016	5/31/2017	13.03544	5/31/2018	14.15896	5/31/2019	12.06137	5/30/2020
5/31/2016	6/1/2017	16.04725	6/1/2018	10.49888	6/1/2019	12.24366	5/31/2020

6/1/2016	6/2/2017	22.11895	6/2/2018	10.81826	6/2/2019	10.59654	6/1/2020
6/2/2016	6/3/2017	19.28993	6/3/2018	14.95818	6/3/2019	12.36566	6/2/2020
6/3/2016	6/4/2017	22.48673	6/4/2018	12.58636	6/4/2019	12.6571	6/3/2020
6/4/2016	6/5/2017	20.03904	6/5/2018	15.33809	6/5/2019	9.853512	6/4/2020
6/5/2016	6/6/2017	12.27413	6/6/2018	9.417326	6/6/2019	12.26723	6/5/2020
6/6/2016	6/7/2017	17.18722	6/7/2018	11.68694	6/7/2019	8.250186	6/6/2020
6/7/2016	6/8/2017	16.02181	6/8/2018	10.59015	6/8/2019	10.92256	6/7/2020
6/8/2016	6/9/2017	15.65661	6/9/2018	8.30963	6/9/2019	8.908164	6/8/2020
6/9/2016	6/10/2017	15.12892	6/10/2018	9.951481	6/10/2019	9.907546	6/9/2020
6/10/2016	6/11/2017	19.70208	6/11/2018	12.10742	6/11/2019	11.20716	6/10/2020
6/11/2016	6/12/2017	20.87218	6/12/2018	8.19034	6/12/2019	8.649178	6/11/2020
6/12/2016	6/13/2017	16.12609	6/13/2018	11.17859	6/13/2019	9.666729	6/12/2020
6/13/2016	6/14/2017	19.40176	6/14/2018	15.10957	6/14/2019	8.360141	6/13/2020
6/14/2016	6/15/2017	13.61839	6/15/2018	17.94279	6/15/2019	6.302034	6/14/2020
6/15/2016	6/16/2017	10.31216	6/16/2018	19.35592	6/16/2019	3.984631	6/15/2020
6/16/2016	6/17/2017	17.88086	6/17/2018	18.9413	6/17/2019	2.030242	6/16/2020
6/17/2016	6/18/2017	19.04675	6/18/2018	17.50973	6/18/2019	0.667054	6/17/2020
6/18/2016	6/19/2017	22.42142	6/19/2018	20.13015	6/19/2019	1.084028	6/18/2020
6/19/2016	6/20/2017	16.49612	6/20/2018	16.66474	6/20/2019	0.55398	6/19/2020
6/20/2016	6/21/2017	9.031215	6/21/2018	8.283337	6/21/2019	0.208387	6/20/2020
6/21/2016	6/22/2017	18.22942	6/22/2018	16.25296	6/22/2019	0.583472	6/21/2020
6/22/2016	6/23/2017	13.41753	6/23/2018	10.76659	6/23/2019	0.8402	6/22/2020
6/23/2016	6/24/2017	15.83701	6/24/2018	11.45063	6/24/2019	0.377943	6/23/2020
6/24/2016	6/25/2017	9.431084	6/25/2018	16.07318	6/25/2019	0.212974	6/24/2020
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PM_{2.5} daily

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12/31/2016							12/31/2020

PM₁₀ daily

Date	Value	Date	Value	Date	Value	Date	Value	Date	Value
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