



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

Air Quality Status Of Nepal 2016-2020

Volume III

Pulchowk Air Quality Monitoring Station



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Contents

| | |
|--|----|
| 1.Pulchowk Air Quality Monitoring Station | 8 |
| 2.Air Quality Status of Pulchowk station (2016-2020) | 8 |
| 2.1 Air Quality status, 2016 | 8 |
| 2.1.1Temporal variation of PM1 | 8 |
| 2.1.2 Temporal variation of PM2.5 | 11 |
| 2.1.3 Temporal variation of PM10 | 14 |
| 2.1.4 Temporal variation of TSP | 17 |
| 2.2 Air Quality Status, 2017 | 20 |
| 2.2.1Annual average of PM1, PM2.5, PM10 and TSP | 20 |
| 2.2.2 Temporal Variation of PM1 | 20 |
| 2.2.3 Temporal Variation of PM2.5 | 24 |
| 2.2.4 Temporal Variation of PM10 | 28 |
| 2.2.5 Temporal Variation of TSP | 32 |
| 2.3 Air Quality Status, 2018 | 36 |
| 2.3.1 Annual average of PM1, PM2.5, PM10 and TSP | 36 |
| 2.3.3 Temporal Variation of PM1 | 36 |
| 2.3.3 Temporal Variation of PM2.5 | 40 |
| 2.3.4 Temporal Variation of PM10 | 44 |
| 2.3.5 Temporal Variation of TSP | 48 |
| 2.4 Air quality status, 2019 | 52 |
| 2.4.1 Annual average of PM1, PM2.5, PM10 and TSP | 52 |
| 2.4.2 Temporal Variation of PM1 | 52 |
| 2.4.3 Temporal Variation of PM2.5 | 56 |
| 2.4.5 Temporal Variation of TSP | 64 |
| 2.5 Air quality status, 2020 | 68 |
| 2.5.1 Temporal variation of PM1 | 68 |
| 2.5.2 Temporal variation of PM2.5 | 71 |
| 2.5.3 Temporal variation of PM10 | 74 |
| 2.5.4 Temporal variation of TSP | 77 |

List of Figure

| | |
|---|----|
| Figure 1. Histogram of PM1 at Pulchowk station in 2016..... | 8 |
| Figure 2. Daily average PM1 at Pulchowk station in 2016..... | 9 |
| Figure 3. Monthly Average of PM1 at Pulchowk Station on 2016..... | 9 |
| Figure 4. Boxplot of monthly variation of PM1 at Pulchowk station in 2016..... | 10 |
| Figure 5. Boxplot of diurnal variation of PM1 at Pulchowk in 2016..... | 10 |
| Figure 6. Histogram of PM2.5 at Pulchowk station in 2016..... | 11 |
| Figure 7. Daily average PM 2.5 at Pulchowk station on 2016..... | 11 |
| Figure 8. Monthly average PM2.5 at Pulchowk station in 2016..... | 12 |
| Figure 9. Boxplot of Monthly variation of PM2.5 at Pulchowk station in 2016..... | 12 |
| Figure 10. Boxplot of PM2.5 at Pulchowk station in 2016..... | 13 |
| Figure 11. Histogram of PM10 at Pulchowk station in 2016..... | 14 |
| Figure 12. Daily average PM10 at Pulchowk station on 2016..... | 14 |
| Figure 13. Monthly average PM10 at Pulchowk station in 2016..... | 15 |
| Figure 14. Boxplot of monthly variation of PM10 at Pulchowk in 2016..... | 15 |
| Figure 15. Boxplot of diurnal variation of Pm10at Pulchowk in 2016..... | 16 |
| Figure 16. Compliance status of PM10 with NAAQS at Pulchowk in 2016..... | 16 |
| Figure 17. Histogram of TSP at Pulchowk station in 2016..... | 17 |
| Figure 18. Daily average Total suspended Particulate at Pulchowk station in 2016..... | 17 |
| Figure 19. Monthly average total suspended particulate at Pulchowk station on 2016..... | 18 |
| Figure 20. Boxplot of monthly variation of TSP at Pulchowk station in 2016..... | 18 |
| Figure 21. Boxplot of diurnal variation of TSP at Pulchowk in 2016..... | 19 |
| Figure 22. Annual average PM1,PM2.5, PM10 and TSp at Pulchowk station for 2017..... | 20 |
| Figure 23. Histogram of PM1 at Pulchowk in 2017..... | 20 |
| Figure 24. Daily average PM1 at Pulchowk station in 2017..... | 21 |
| Figure 25. Monthly average PM1 at Pulchowk station in 2017..... | 21 |
| Figure 26. Monthly variation of daily average PM1 at Pulchowk station in 2017..... | 22 |
| Figure 27. Ambient concentration of average PM1 with four seasons..... | 22 |
| Figure 28. Boxplot of diurnal variation of PM1 at Pulchowk station in 2017..... | 23 |
| Figure 29. Histogram of PM2.5 at Pulchowk in 2017..... | 24 |
| Figure 30. Daily average PM2.5 at Pulchowk station in 2017..... | 24 |
| Figure 31. Monthly average of PM2.5 at Pulchowk on 2017..... | 25 |
| Figure 32. Monthly variation of daily average PM2.5 at Pulchowk in 2017..... | 25 |
| Figure 33. Seasonal variation of PM2.5 at Pulchowk station on 2017..... | 26 |
| Figure 34. Boxplot of diurnal variation of PM2.5 at Pulchowk in 2017..... | 26 |
| Figure 35. Compliance with National Ambient air quality standard for PM2.5 at Pulchowk station in 2017..... | 27 |
| Figure 36. Histogram of PM10 at Pulchowk in 2017..... | 28 |
| Figure 37. Daily average PM10 at Pulchowk station in 2017..... | 28 |

| | |
|--|----|
| Figure 38. . Monthly average PM10 at Pulchowk station in 2017..... | 29 |
| Figure 39. Boxplot of monthly variation of PM10 at Pulchowk in 2017..... | 29 |
| Figure 40. Seasonal average of PM10 at Pulchowk station on 2017..... | 30 |
| Figure 41. Diurnal variation of Pm10 at Pulchowk in 2017..... | 30 |
| Figure 42. Histogram of TSP at Pulchowk station in 2017 | 32 |
| Figure 43. Daily average total suspended particulate at Pulchowk in 2017 | 32 |
| Figure 44. Monthly average of TSP at Pulchowk station in 2017 | 33 |
| Figure 45. Monthly variation of daily average Total suspended particulate at Pulchowk in 2017... | 33 |
| Figure 46. Seasonal average of TSP at Pulchowk station on 2017..... | 34 |
| Figure 47. Diurnal variation of TSP at Pulchowk station on 2017..... | 34 |
| Figure 48. Annual average PM1,PM2.5, PM10 and TSp at Pulchowk station for 2018 | 36 |
| Figure 49. . Histogram of PM1 at Pulchowk in 2018 | 36 |
| Figure 50. Daily average PM1 at Pulchowk station in 2018..... | 37 |
| Figure 51. Monthly average PM1 at Pulchowk station in 2018 | 37 |
| Figure 52. Monthly variation of daily average PM1 at Pulchowk station in 2018..... | 38 |
| Figure 53. Ambient concentration of average PM1 with four seasons | 38 |
| Figure 54. Boxplot of diurnal variation of PM1 at Pulchowk station in 2018 | 39 |
| Figure 55. Histogram of PM2.5 at Pulchowk in 2018..... | 40 |
| Figure 56. Daily average PM2.5 at Pulchowk station in 2018..... | 40 |
| Figure 57. Monthly average of PM2.5 at Pulchowk station in 2018 | 41 |
| Figure 58. Monthly variation of daily average PM2.5 at Pulchowk in 2018 | 41 |
| Figure 59. . Seasonal variation of PM2.5 at Pulchowk station in 2018 | 42 |
| Figure 60. Boxplot of diurnal variation of PM2.5 at Pulchowk in 2018..... | 42 |
| Figure 61. Compliance with National Ambient air quality standard for PM2.5 at Pulchowk station in 2018 | 43 |
| Figure 62. Histogram of PM10 at Pulchowk in 2018 | 44 |
| Figure 63. Daily average PM10 at Pulchowk station in 2018 | 44 |
| Figure 64 . Monthly average PM10 at Pulchowk station in 2018 | 45 |
| Figure 65. Boxplot of monthly variation of PM10 at Pulchowk in 2018..... | 45 |
| Figure 66. Seasonal average of PM10 at Pulchowk station in 2018..... | 46 |
| Figure 67. Diurnal variation of Pm10 at Pulchowk in 2018..... | 46 |
| Figure 68. Compliance with NAAQS for PM10 at Pulchowk in 2018 | 47 |
| Figure 69. Histogram of TSP at Pulchowk station in 2018 | 48 |
| Figure 70. Daily average total suspended particulate at Pulchowk in 2018 | 48 |
| Figure 71. Monthly average of TSP at Pulchowk station in 2018 | 49 |
| Figure 72. Monthly variation of daily average Total suspended particulate at Pulchowk in 2018... | 49 |
| Figure 73. Seasonal average of TSP at Pulchowk station in 2018..... | 50 |
| Figure 74. Diurnal variation of TSP at Pulchowk station in 2018..... | 50 |
| Figure 75. Compliance with NAAQS for TSP at Pulchowk in 2018 | 51 |
| Figure 76. Annual average PM1,PM2.5, PM10 and TSp at Pulchowk station for 2019 | 52 |
| Figure 77. Histogram of PM1 at Pulchowk in 2019..... | 52 |
| Figure 78. Daily average PM1 at Pulchowk station in 2019..... | 53 |

| | |
|---|----|
| Figure 79. . Monthly average PM1 at Pulchowk station in 2019..... | 53 |
| Figure 80. Monthly variation of daily average PM1 at Pulchowk station in 2019..... | 54 |
| Figure 81. Ambient concentration of average PM1 with four seasons | 54 |
| Figure 82. Boxplot of diurnal variation of PM1 at Pulchowk station in 2019 | 55 |
| Figure 83. Histogram of PM2.5 at Pulchowk in 2019..... | 56 |
| Figure 84. Daily average PM2.5 at Pulchowk station in 2019..... | 56 |
| Figure 85. Monthly average of PM2.5 at Pulchowk station in 2019 | 57 |
| Figure 86. Monthly variation of daily average PM2.5 at Pulchowk in 2019 | 57 |
| Figure 87. Seasonal variation of PM2.5 at Pulchowk station in 2019..... | 58 |
| Figure 88. Boxplot of diurnal variation of PM2.5 at Pulchowk in 2019..... | 58 |
| Figure 89. Compliance with National Ambient air quality standard for PM2.5 at Pulchowk station in 2019 | 59 |
| Figure 90. . Histogram of PM10 at Pulchowk in 2019..... | 60 |
| Figure 91. Daily average PM10 at Pulchowk station in 2019 | 60 |
| Figure 92. Monthly average PM10 at Pulchowk station in 2019 | 61 |
| Figure 93. Boxplot of monthly variation of PM10 at Pulchowk in 2019..... | 61 |
| Figure 94. Seasonal average of PM10 at Pulchowk station in 2019..... | 62 |
| Figure 95. Diurnal variation of Pm10 at Pulchowk in 2019..... | 62 |
| Figure 96. Histogram of TSP at Pulchowk station in 2019 | 64 |
| Figure 97. Daily average total suspended particulate at Pulchowk in 2019 | 64 |
| Figure 98. Monthly average of TSP at Pulchowk station in 2019 | 65 |
| Figure 99. Monthly variation of daily average Total suspended particulate at Pulchowk in 2019.... | 65 |
| Figure 100. Seasonal average of TSP at Pulchowk station in 2019..... | 66 |
| Figure 101. Diurnal variation of TSP at Pulchowk station in 2019..... | 66 |
| Figure 102. Compliance with NAAQS for TSP at Pulchowk in 2019 | 67 |
| Figure 103. Histogram of PM1 at Pulchowk in 2020 | 68 |
| Figure 104. Daily average PM1 at Pulchowk station in 2020 | 68 |
| Figure 105. Monthly average PM1 at Pulchowk station in 2020 | 69 |
| Figure 106. Monthly variation of daily average PM1 at Pulchowk station in 2020..... | 69 |
| Figure 107. Boxplot of diurnal variation of PM1 at Pulchowk station in 2020 | 70 |
| Figure 108. Histogram of PM2.5 at Pulchowk in 2020..... | 71 |
| Figure 109. Daily average PM2.5 at Pulchowk station in 2020..... | 71 |
| Figure 110. Monthly average of PM2.5 at Pulchowk station in 2020 | 72 |
| Figure 111. Monthly variation of daily average PM2.5 at Pulchowk in 2020..... | 72 |
| Figure 112. Boxplot of diurnal variation of PM2.5 at Pulchowk in 2020..... | 73 |
| Figure 113. Compliance with National Ambient air quality standard for PM2.5 at Pulchowk station in 2020 | 73 |
| Figure 114. Histogram of PM10 at Pulchowk in 2020 | 74 |
| Figure 115. Daily average PM10 at Pulchowk station in 2020 | 74 |
| Figure 116. Monthly average PM10 at Pulchowk station in 2020 | 75 |
| Figure 117. Boxplot of monthly variation of PM10 at Pulchowk in 2020..... | 75 |
| Figure 118. Diurnal variation of Pm10 at Pulchowk in 2020..... | 76 |

| | |
|--|----|
| Figure 119. Compliance with NAAQS for PM10 at Pulchowk in 2020 | 76 |
| Figure 120. Histogram of TSP at Pulchowk station in 2020 | 77 |
| Figure 121. Daily average total suspended particulate at Pulchowk in 2020 | 77 |
| Figure 122. Monthly average of TSP at Pulchowk station in 2020 | 78 |
| Figure 123. Monthly variation of daily average Total suspended particulate at Pulchowk in 2020.. | 78 |
| Figure 124. Diurnal variation of TSP at Pulchowk station in 2020..... | 79 |
| Figure 125. Compliance with NAAQS for TSP at Pulchowk in 2020 | 79 |

1. Pulchowk Air Quality Monitoring Station

About the Station

- Address : Pulchowk Engineering college, Lalitpur
- Location: 85.32 longitude, 27.68 latitude
It is located on the top of ICT building of Pulchowk engineering college.
- Establish year: 2016 (2073)
- Brief introduction of the instruments installed in the station (should include- brief specification; number of instrument)
 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 Pulchowk station (2016-2020)

2.1 Air Quality status, 2016

2.1.1 Temporal variation of PM1

Annual Average of PM1

Histogram of hourly average PM1 at Pulchowk station in 2016 is shown in following figure

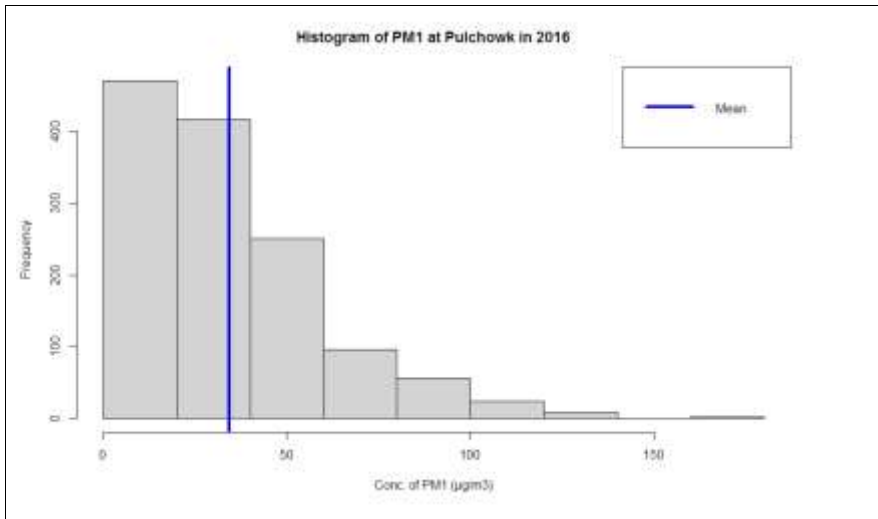


Figure 1. Histogram of PM1 at Pulchowk station in 2016

Daily average of PM1

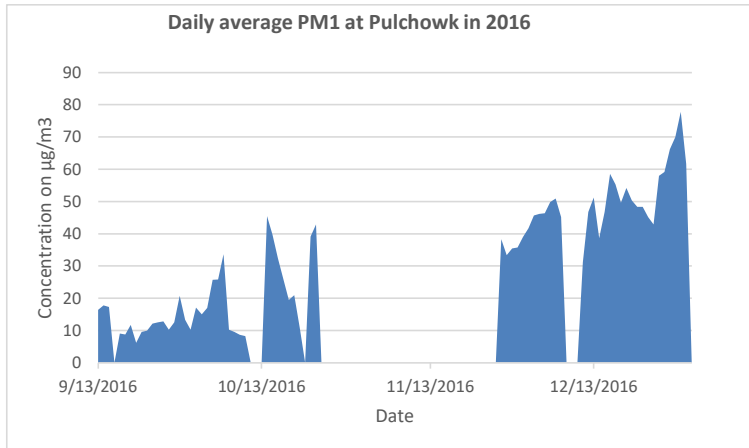


Figure 2. Daily average PM1 at Pulchowk station in 2016

Monthly Average of PM1

Following figure shows monthly average PM1 at Pulchowk station in 2016

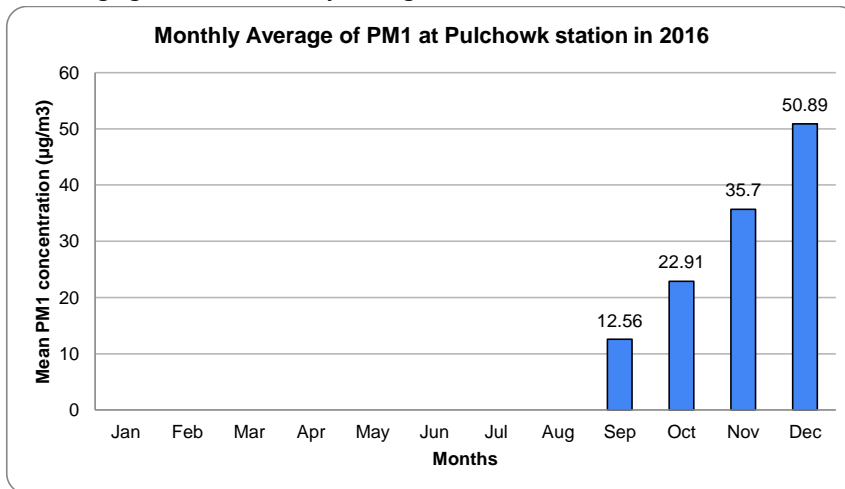


Figure 3. Monthly Average of PM1 at Pulchowk Station on 2016

December had the highest monthly average with monthly average value of 50.89 µg/m³ while September had the lowest value with monthly average value of 12.56 µg/m³.

Monthly variation of PM1

The following figure shows the monthly variation of PM1 at Pulchowk station in 2016.

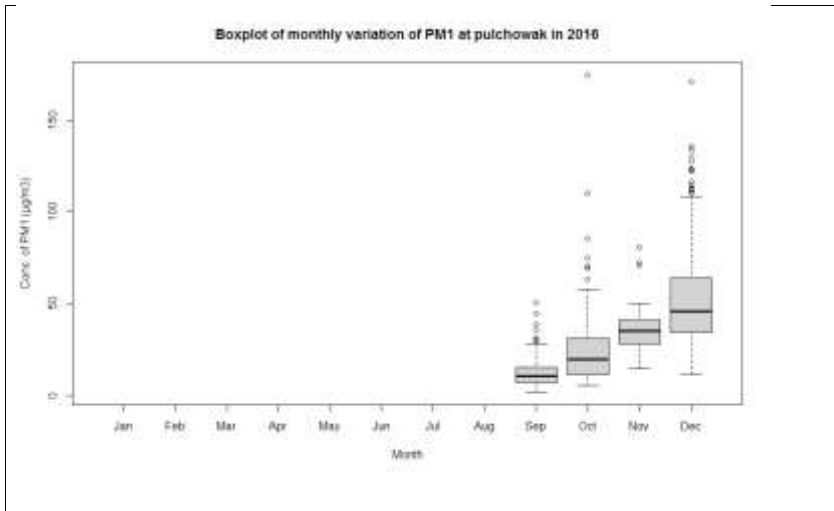


Figure 4. Boxplot of monthly variation of PM1 at Pulchowk station in 2016

Variation in concentration of PM₁ was found more in December and low in September.

Diurnal Variation of PM1

The following figure shows the diurnal variation of PM1 at Pulchowk station in 2016.

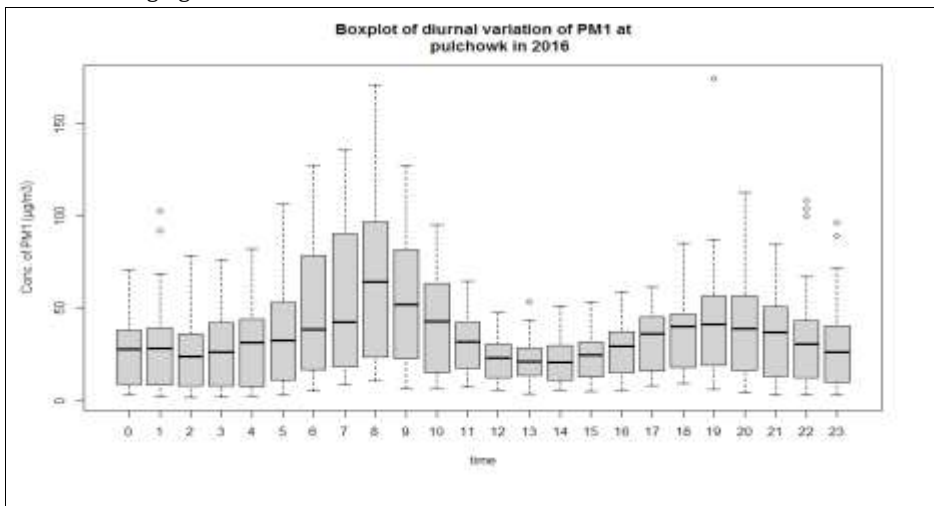


Figure 5. Boxplot of diurnal variation of PM1 at Pulchowk in 2016

The boxplot shows that PM1 concentration is more in 8 O clock and it is also more variable during this time.

2.1.2 Temporal variation of PM2.5

Annual Average of PM2.5

The following figure shows the histogram of PM2.5 at Pulchowk station in 2016.

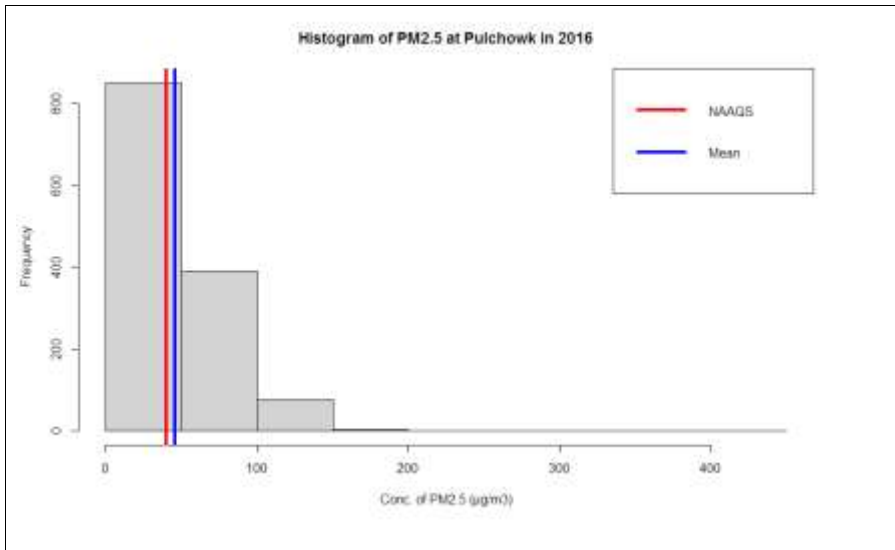


Figure 6. Histogram of PM2.5 at Pulchowk station in 2016

The Histogram of PM2.5 at Pulchowk station in 2016 shows that highest no of hourly data are between 0 - 50 $\mu\text{g}/\text{m}^3$ concentration followed by 50-100 $\mu\text{g}/\text{m}^3$ concentration.

Daily average of PM 2.5

Following figure shows the daily average PM2.5 bar graph at Pulchowk station in 2016.

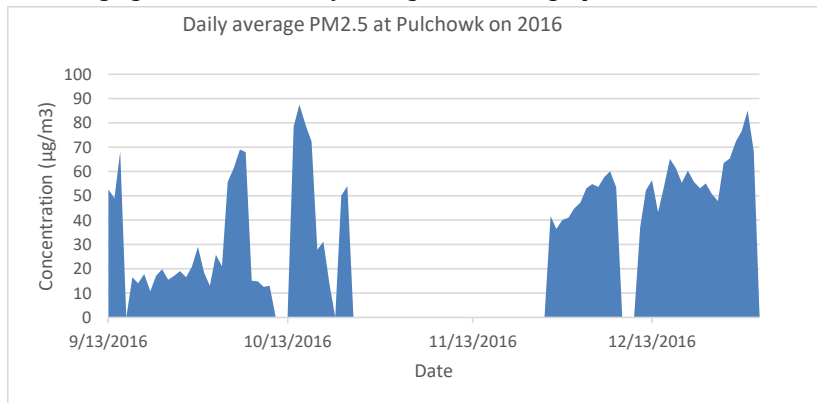


Figure 7. Daily average PM 2.5 at Pulchowk station on 2016

Monthly Average of PM2.5

Figure 2 shows the monthly average PM_{2.5}.

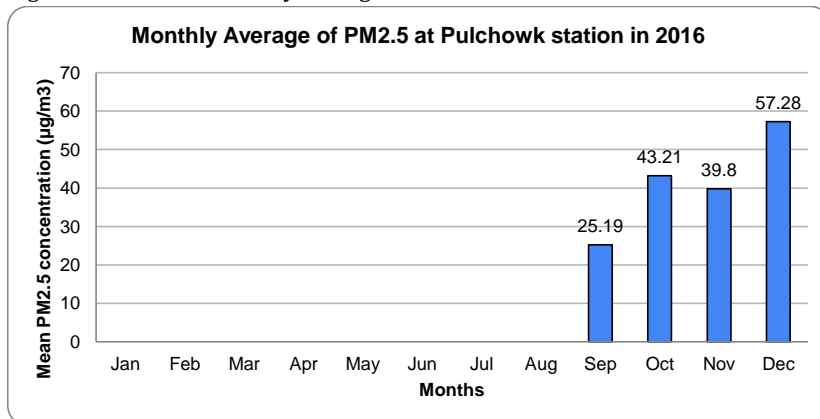


Figure 8. Monthly average PM_{2.5} at Pulchowk station in 2016

Out of 4 months September, October, November and December, December has the highest monthly average of PM_{2.5}.

Monthly variation of PM2.5

Following figure shows the monthly variation of PM_{2.5} at Pulchowk station in 2016.

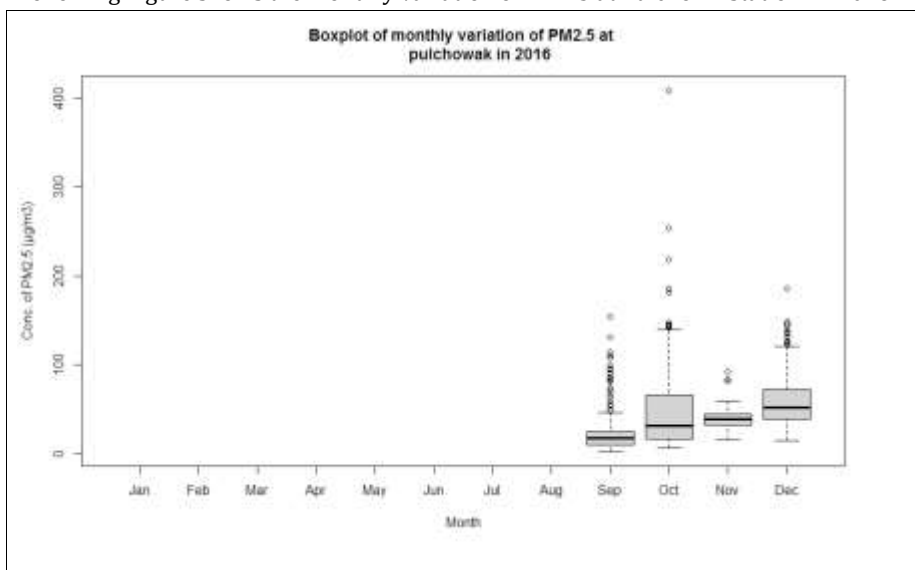


Figure 9. Boxplot of Monthly variation of PM_{2.5} at Pulchowk station in 2016

The Boxplot shows there was more variation of Hourly average PM₁ data in the month of October.

Diurnal Variation of PM2.5

The following figure shows the diurnal variation of PM2.5 at Pulchowk station in 2016.

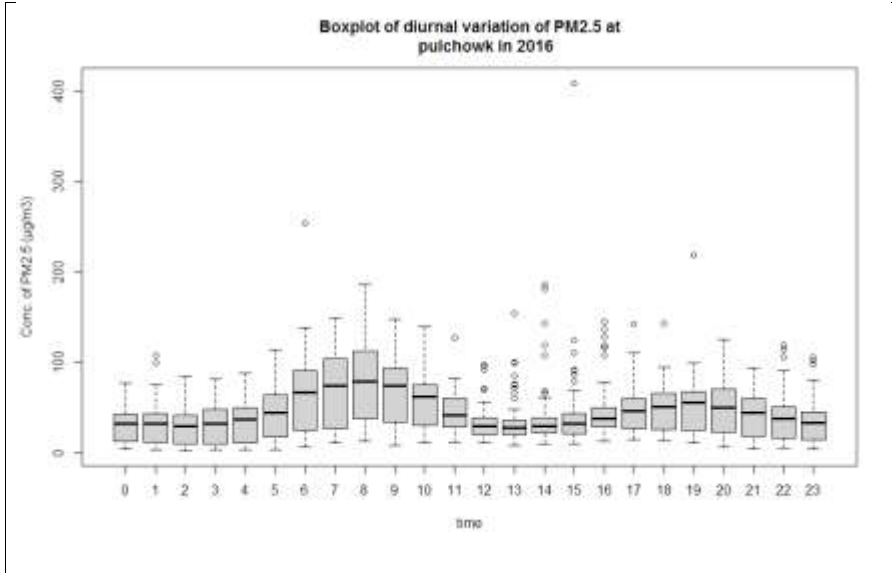


Figure 10. Boxplot of PM2.5 at Pulchowk station in 2016

The Boxplot of diurnal variation of PM 2.5 shows PM2.5 concentrations was highest at 8 o'clock and highest variation was also at that time.

Compliance with National Ambient Air Quality Standards(NAAQS)

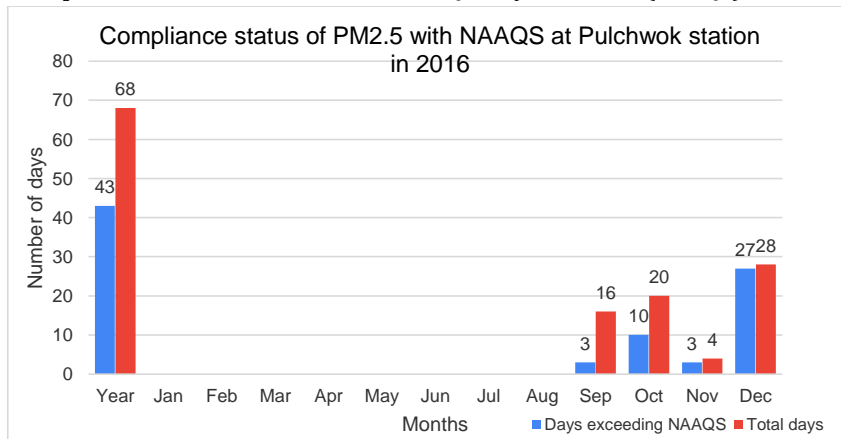


Figure 14. Compliance status of PM2.5 at Pulchowk with NAAQS

In 2016 out of 68 days of measurement 43 days exceeded the national ambient air quality standard for PM2.5.

2.1.3 Temporal variation of PM10

Annual average of PM10.

Following figure shows the Histogram of PM10 at Pulchowk station in 2016.

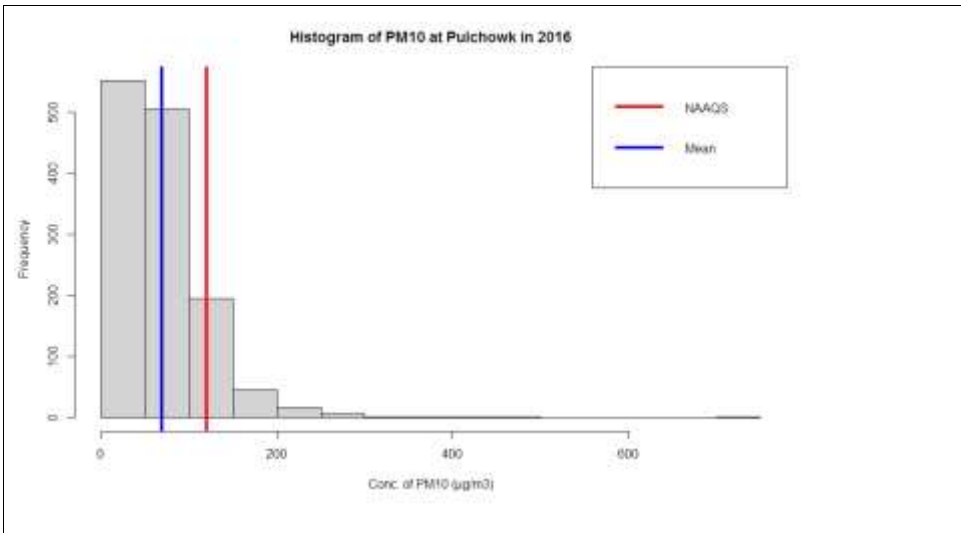


Figure 11. Histogram of PM10 at Pulchowk station in 2016

The Histogram of PM10 at Pulchowk station in 2016 shows that highest no of hourly data is between 0 - 50 $\mu\text{g}/\text{m}^3$ concentration followed by 50-100 $\mu\text{g}/\text{m}^3$ concentration.

Daily average of PM10 at Pulchowk station in 2016.

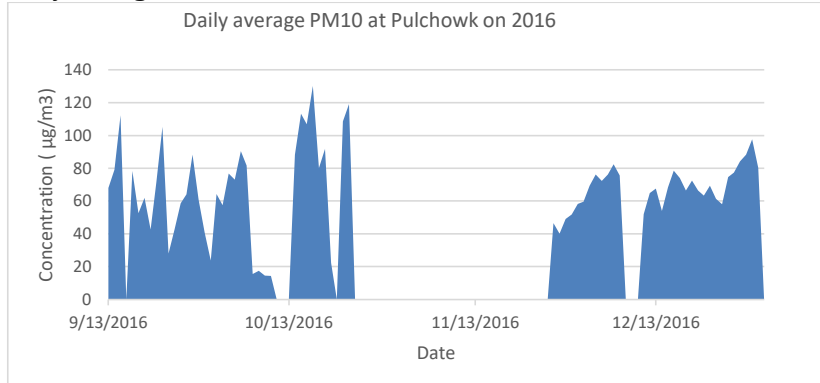


Figure 12. Daily average PM10 at Pulchowk station on 2016

Monthly Average of PM10

Figure 8 shows the monthly average of PM10 at Pulchowok on 2016.

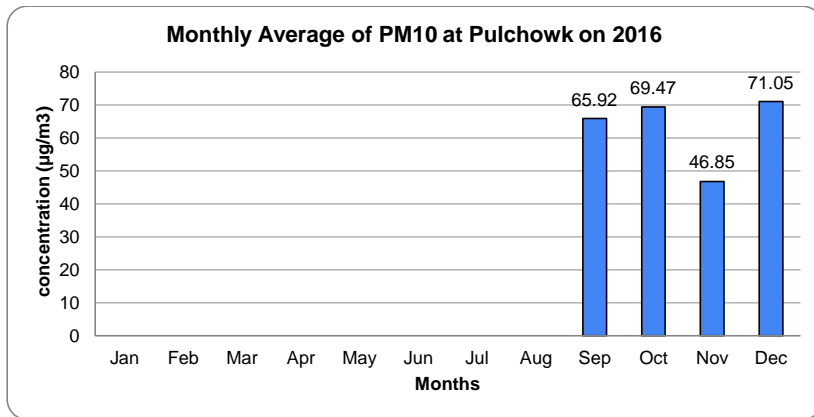


Figure 13. Monthly average PM10 at Pulchowk station in 2016

out of 4 month September, October, November and December, December has the highest monthly average.

Monthly Variation of PM10

Following figure shows the monthly variation of PM10 at Pulchowk station in 2016.

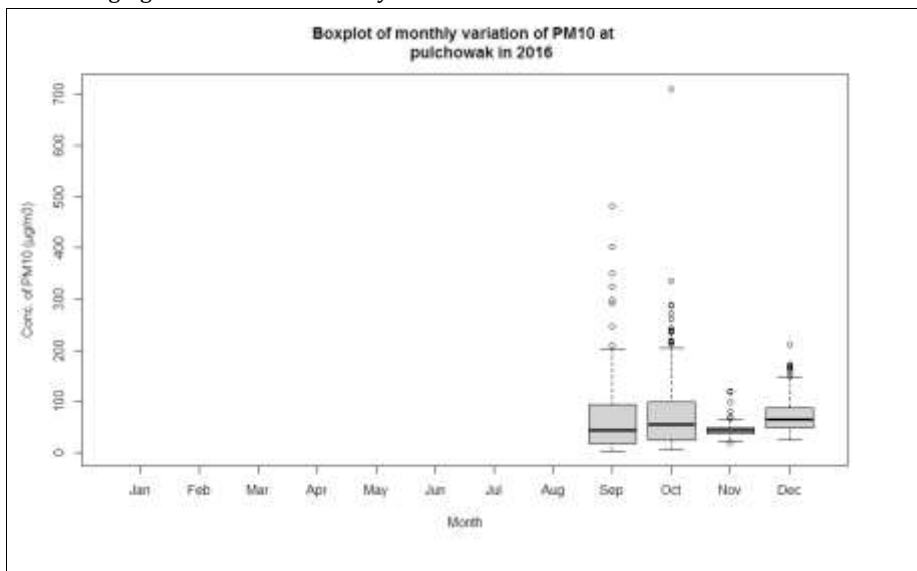


Figure 14. Boxplot of monthly variation of PM10 at Pulchowk in 2016

The Boxplot of monthly variation of PM10 at Pulchowk shows that hourly average of PM10 is more variable during October and September.

Diurnal Variation of PM10

Following figure shows the diurnal variation of PM10 at Pulchowk station in 2016.

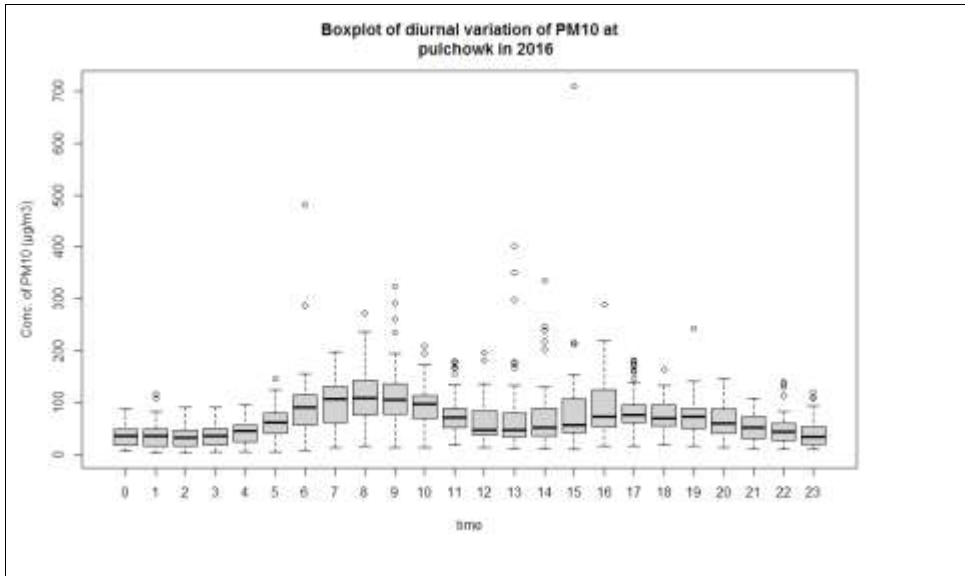


Figure 15. Boxplot of diurnal variation of Pm10at Pulchowk in 2016

The boxplot of diurnal variation of PM10 at Pulchowk station in 2016 shows that concentration of PM10 was highest during 7,8 and 9 O'clock and variation was highest during those periods and also at 16 O'clock.

Compliance with National ambient air quality standard

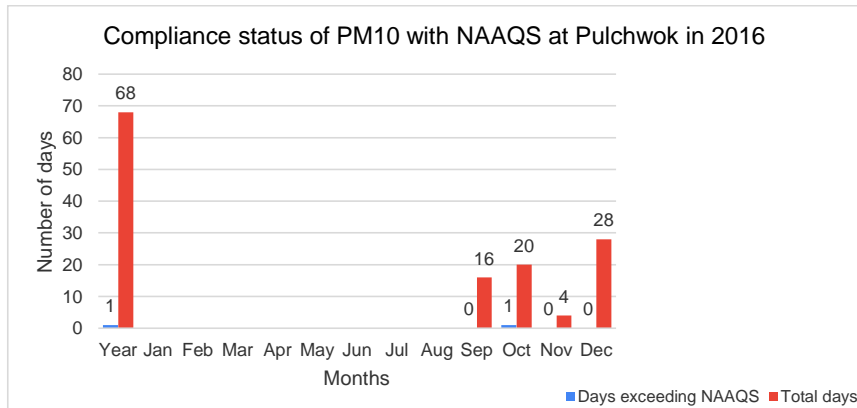


Figure 16. Compliance status of PM10 with NAAQS at Pulchowk in 2016

Out of total 68 days of Measurement only one day exceeded the National ambient air quality standard for PM10.

2.1.4 Temporal variation of TSP

Annual Average of TSP

Following figure shows the Histogram of Total suspended Particulate(TSP) at Pulchowk station in 2016.

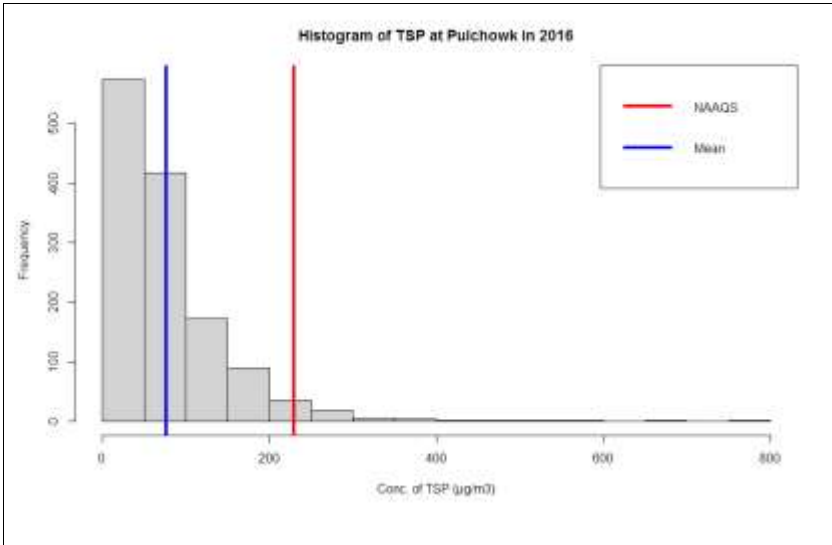


Figure 17. Histogram of TSP at Pulchowk station in 2016

The Histogram of PM₁₀ at Pulchowk station in 2016 shows that highest no of hourly data is between 0 - 50 $\mu\text{g}/\text{m}^3$ concentration followed by 50-100 $\mu\text{g}/\text{m}^3$ concentration.

Daily average of TSP

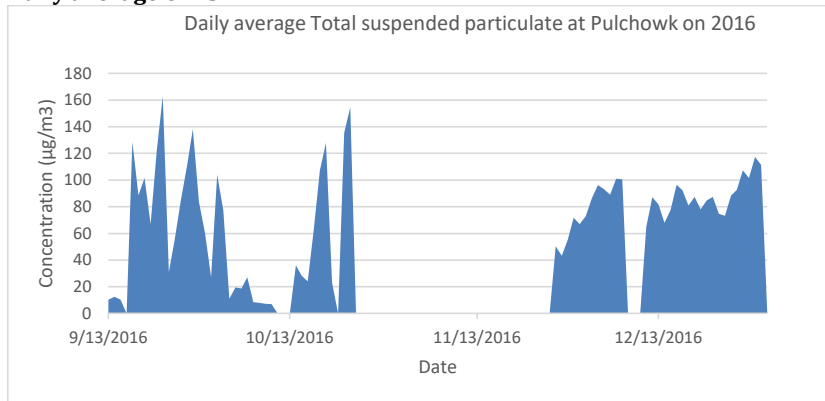


Figure 18. Daily average Total suspended Particulate at Pulchowk station in 2016

Monthly Average of TSP

Following figure shows the monthly average of Total suspended particulate at Pulchowk station in 2016.

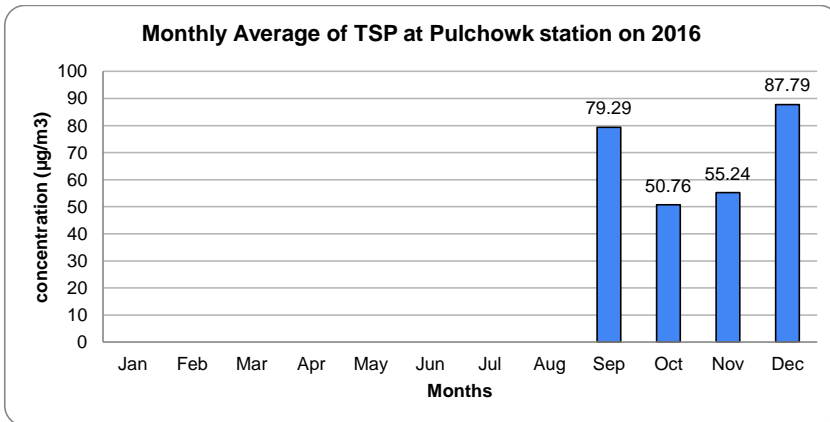


Figure 19. Monthly average total suspended particulate at Pulchowk station on 2016

Out of 4 month September, October, November and December, December has the highest monthly average of $87.79 \mu\text{g}/\text{m}^3$ and October has the lowest monthly average of $50.76 \mu\text{g}/\text{m}^3$.

Monthly variation of TSP

Following figure shows the monthly variation of Total suspended particulate

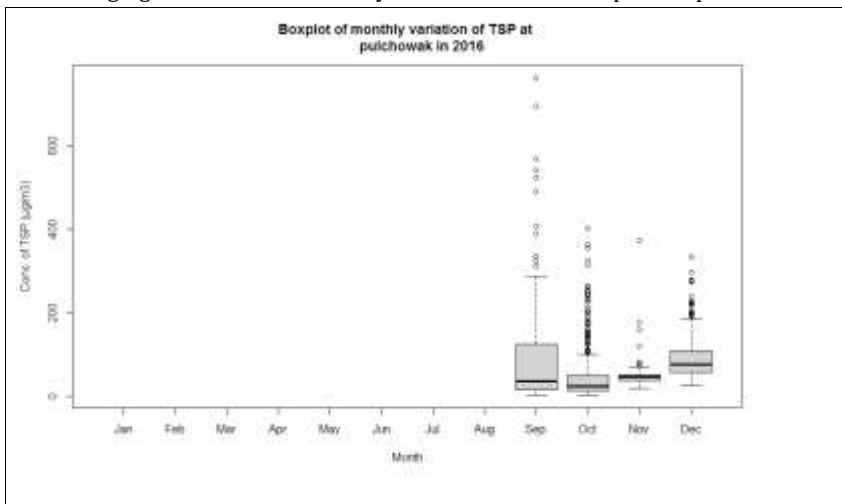


Figure 20. Boxplot of monthly variation of TSP at Pulchowk station in 2016

The Boxplot of Total suspended particulate at Pulchowk in 2016 shows more variation of TSP was observed in September.

Diurnal Variation of TSP

Following figure shows the diurnal variation of Total suspended particulate at Pulchowk station in 2016.

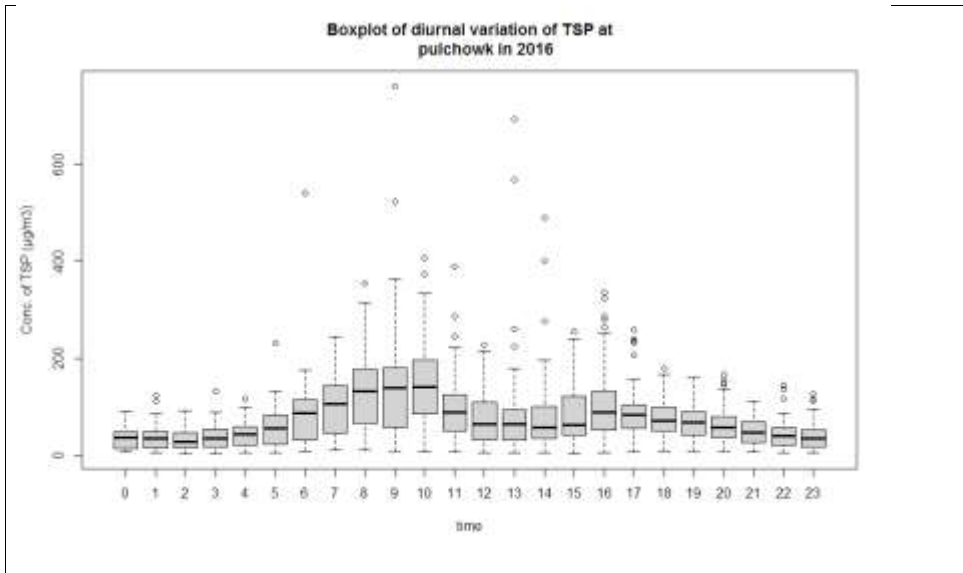


Figure 21. Boxplot of diurnal variation of TSP at Pulchowk in 2016

The Boxplot of TSP at Pulchok in 2016 shows that the concentration of TSP was more during 8, 9 and 10 O'clock and was more variable during that period.

Compliance with National ambient air quality standard.

Out of 68 days of measurement in 2016 all days meets the National Ambient air quality standard for TSP.

Commented [D1]: Graph dai

2.2 Air Quality Status, 2017

2.2.1 Annual average of PM1, PM2.5, PM10 and TSP

Annual average of all parameters (PM1, PM2.5, PM10 and TSP for this station)

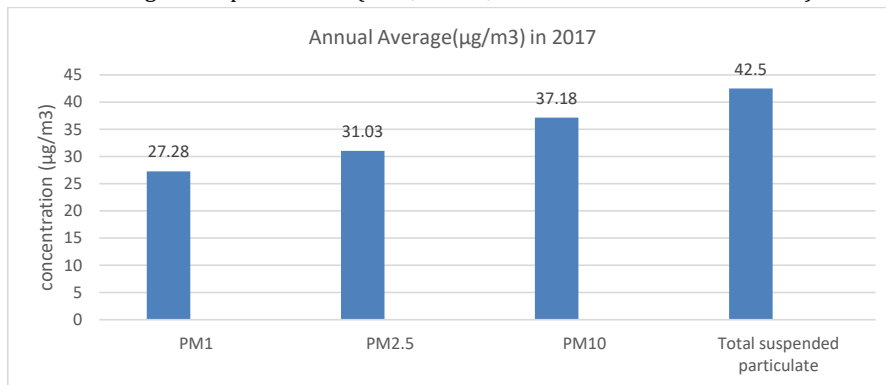


Figure 22. Annual average PM1, PM2.5, PM10 and TSP at Pulchowk station for 2017

2.2.2 Temporal Variation of PM1

Annual Average of PM1

Annual average PM1 at Pulchowk station at 2017 was 27.28 µg/m³. Following figure shows the Histogram of PM1 at Pulchowk in 2017.

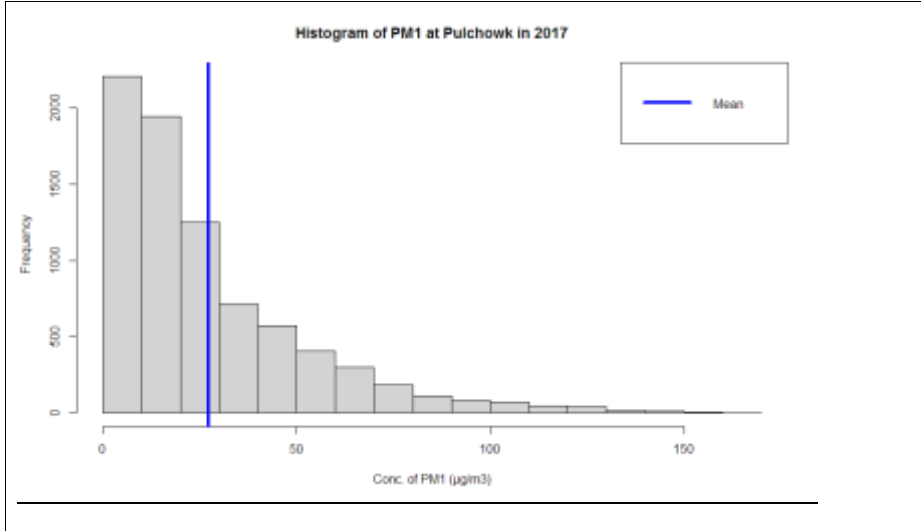


Figure 23. Histogram of PM1 at Pulchowk in 2017

The Histogram shows that highest no of hourly average data were between 0-10µg/m³ followed by 10-20 µg/m³.

Daily average of PM1

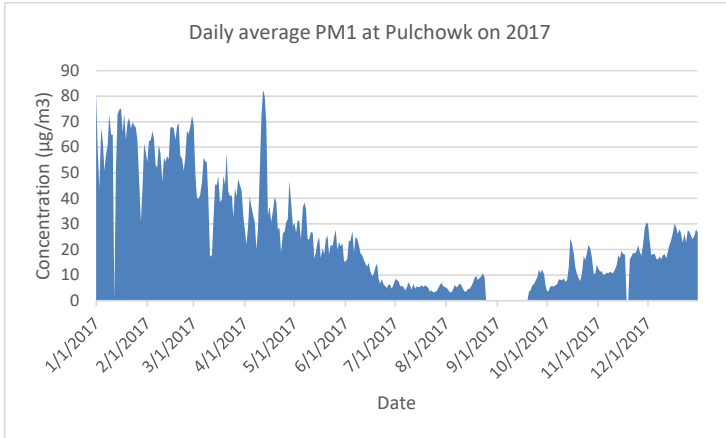


Figure 24. Daily average PM1 at Pulchowk station in 2017

Monthly Average of PM1

Following Figure shows the monthly average of PM₁.

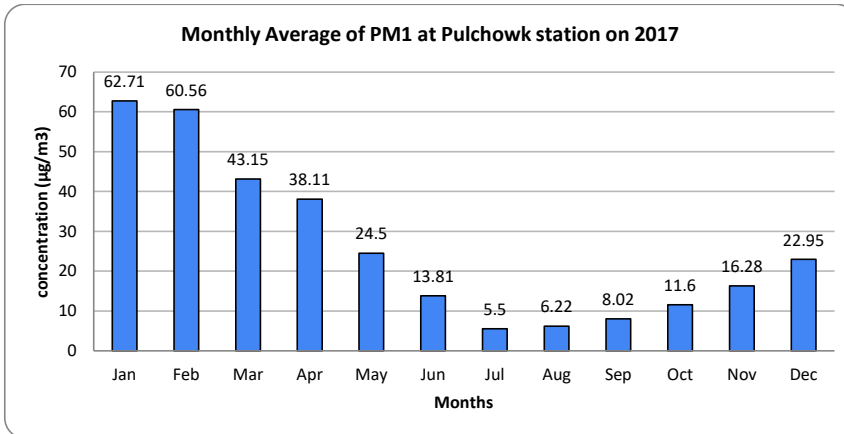


Figure 25. Monthly average PM1 at Pulchowk station in 2017

Above figure shows that the average value of PM₁ was highest in January with 62.71µg/m³ and while lowest value were observed in July with 5.5 µg/m³.

Monthly Variation of PM1

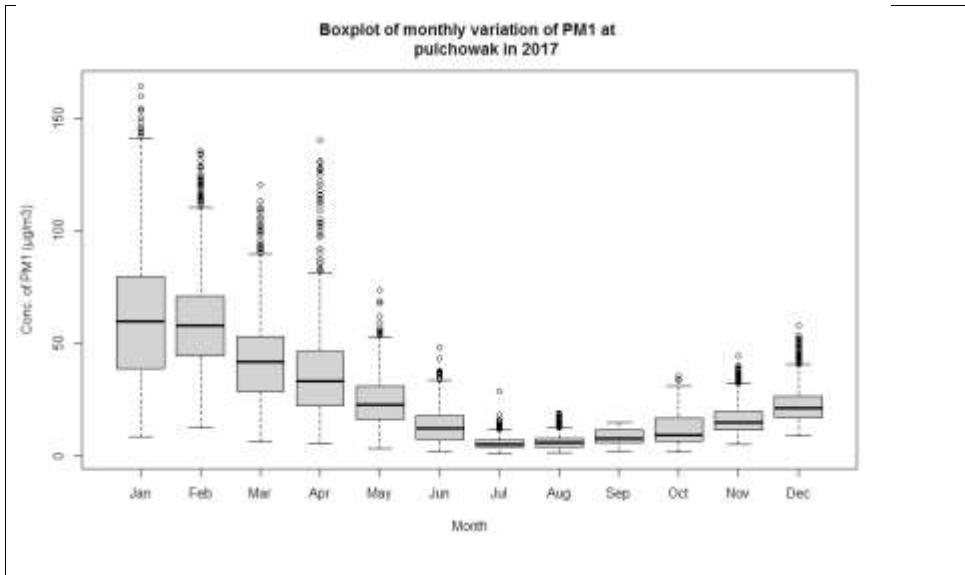


Figure 26. Monthly variation of daily average PM1 at Pulchowk station in 2017

Boxplot of monthly variation of PM1 shows that highest variation was seen on January.

Seasonal Average of PM1

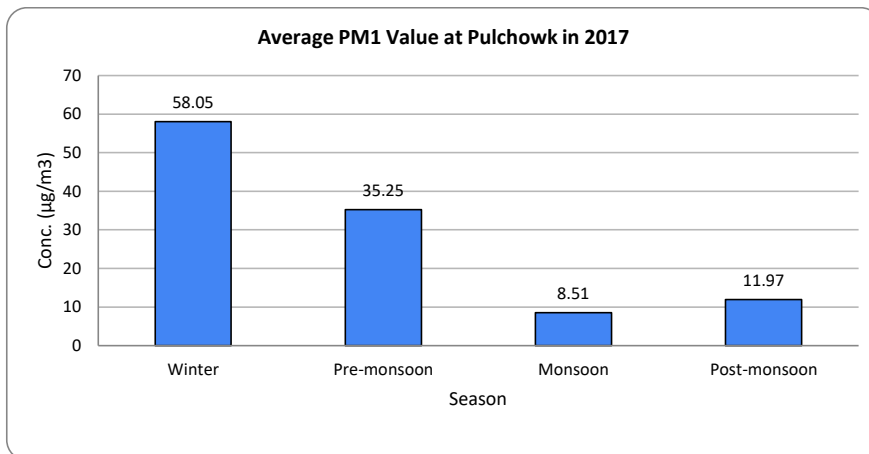


Figure 27. Ambient concentration of average PM1 with four seasons

Diurnal Variation of PM1

Following figure shows the boxplot of diurnal variation of PM1 at Pulchowk station in 2017.

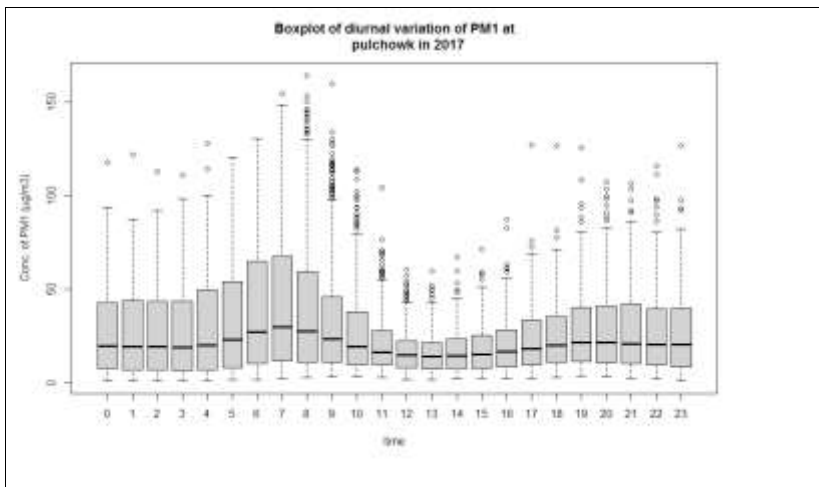


Figure 28. Boxplot of diurnal variation of PM1 at Pulchowk station in 2017

Above figure shows that Pm1 concentration was more at 7 o'clock and it was more variable at that time.

2.2.3 Temporal Variation of PM2.5

Annual Average of PM2.5

The annual average of PM2.5 at Pulchowk station on 2017 was 31.038 $\mu\text{g}/\text{m}^3$. Following figure shows the Histogram of PM2.5 at Pulchowk station in 2017.

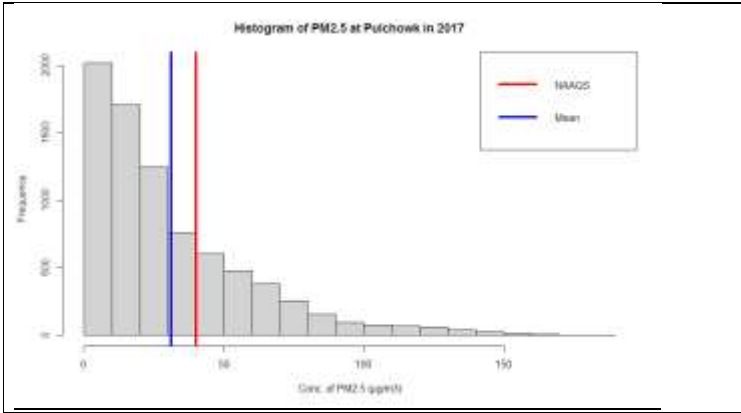


Figure 29. Histogram of PM2.5 at Pulchowk in 2017

The Histogram shows that highest no of hourly average data were between 0-10 $\mu\text{g}/\text{m}^3$ followed by 10-20 $\mu\text{g}/\text{m}^3$.

Daily Average of PM2.5

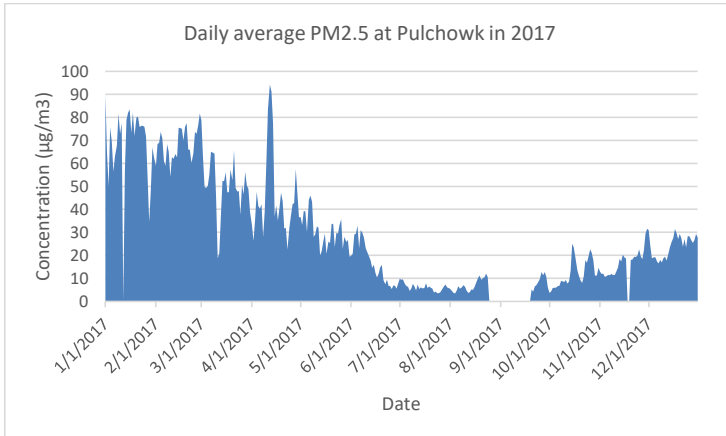


Figure 30. Daily average PM2.5 at Pulchowk station in 2017

Monthly Average of PM2.5

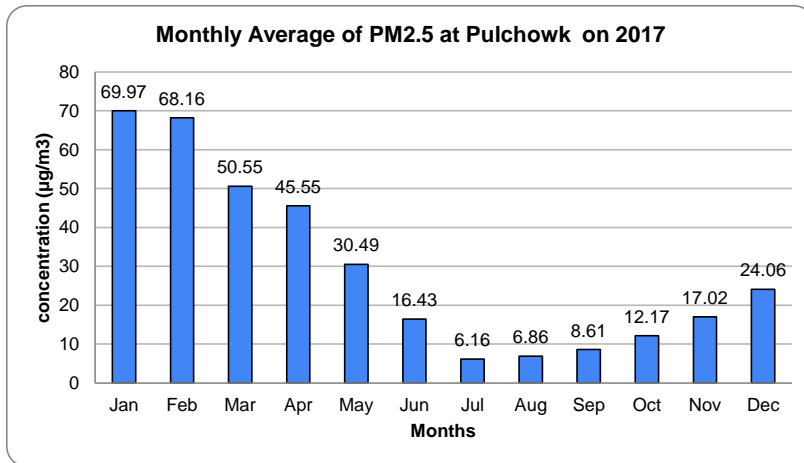


Figure 31. Monthly average of PM2.5 at Pulchowk on 2017

Above figure shows that the monthly average value of PM_{2.5} was highest in January with 69.97 µg/m³ while lowest value were observed in July with 6.16 µg/m³.

Monthly Variation of PM2.5

Following figure shows the boxplot of monthly variation of PM2.5 at Pulchowk in 2017.

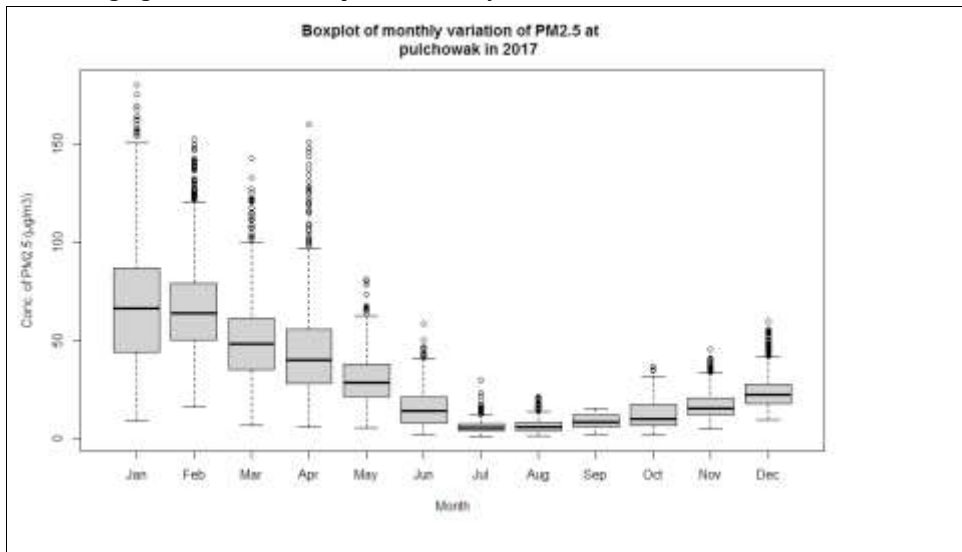


Figure 32. Monthly variation of daily average PM2.5 at Pulchowk in 2017

Above figure shows that hourly average data of PM_{2.5} was more variable in January.

Seasonal Average of PM2.5

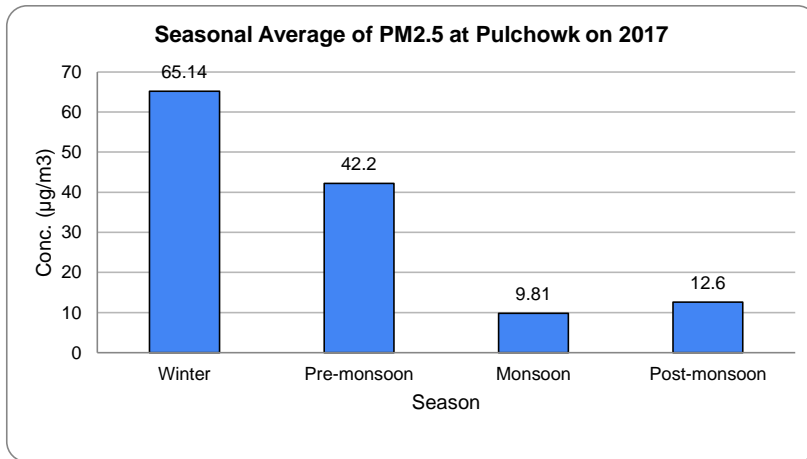


Figure 33. Seasonal variation of PM2.5 at Pulchowk station on 2017

The figure shows highest seasonal average in winter season followed by pre-monsoon while lowest seasonal average was observed in monsoon season.

Diurnal Variation of PM2.5

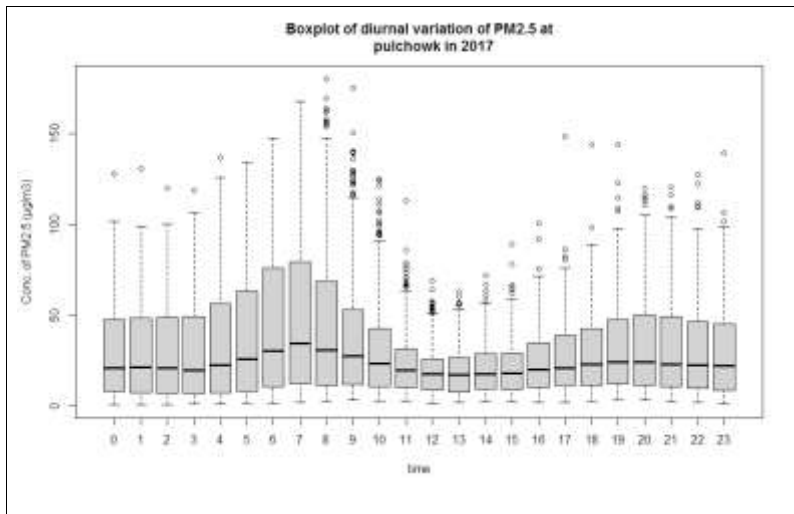


Figure 34. Boxplot of diurnal variation of PM2.5 at Pulchowk in 2017

Above figure shows PM2.5 concentrations was highest was at 7 o'clock and also more variable at that time.

Compliance with National Ambient air Quality standard

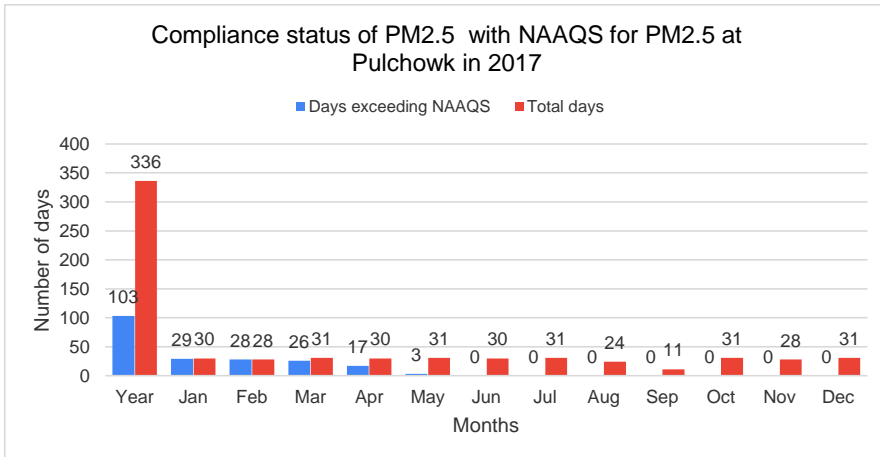


Figure 35. Compliance with National Ambient air quality standard for PM2.5 at Pulchowk station in 2017

Out of total 336 days of Measurement 103 day exceeded the National ambient air quality standard for PM2.5 at Pulchowk station in 2017.

2.2.4 Temporal Variation of PM10

Annual Average

The annual average PM10 at Pulchowk station on 2017 was $37.18\mu\text{g}/\text{m}^3$. Following figure shows the Histogram of PM10 at Pulchowk station in 2017.

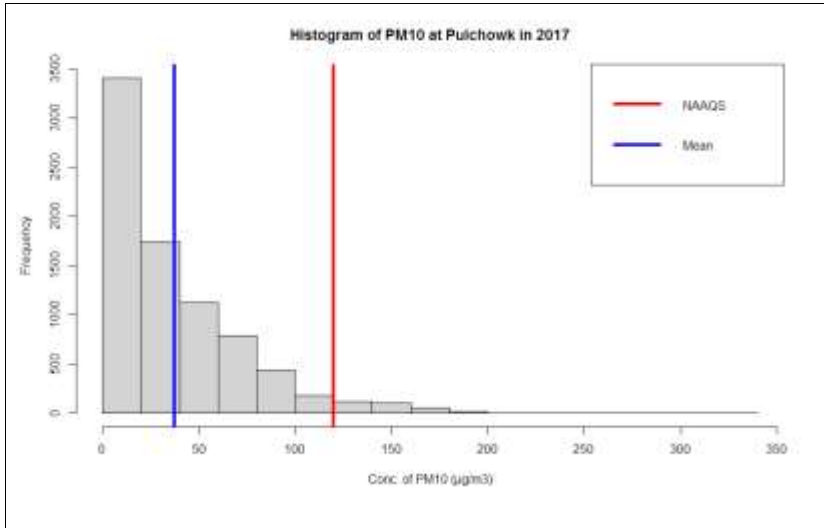


Figure 36. Histogram of PM10 at Pulchowk in 2017

Above figure shows that highest no of hourly average data were between 0-20 $\mu\text{g}/\text{m}^3$.

Daily average of PM10

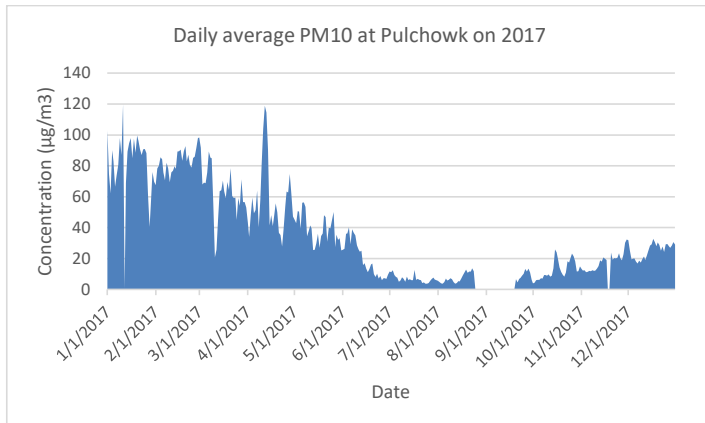


Figure 37. Daily average PM10 at Pulchowk station in 2017

Monthly Average of PM10

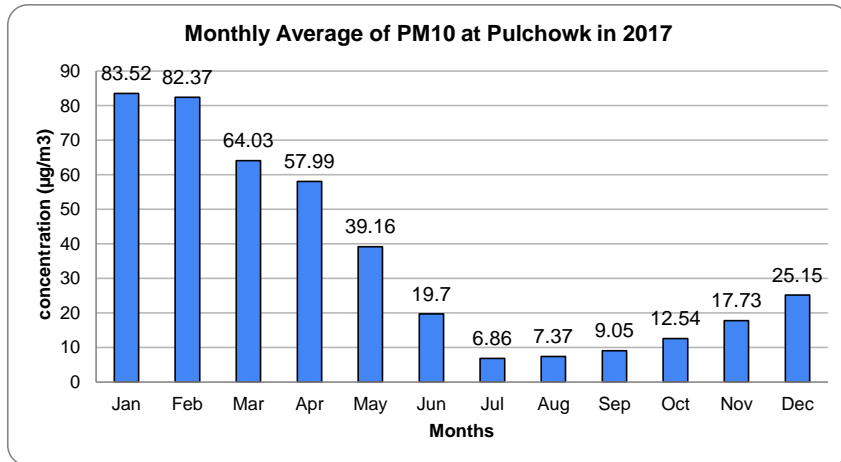


Figure 38.. Monthly average PM10 at Pulchowk station in 2017

Above figure shows that the highest monthly average value of PM10 was found in January with average value of 83.52 µg/m³ and lowest average was found in July with average value of 6.86 µg/m³.

Monthly Variation of PM10

Following figure shows the boxplot of monthly variation of PM10 at Pulchowk in 2017

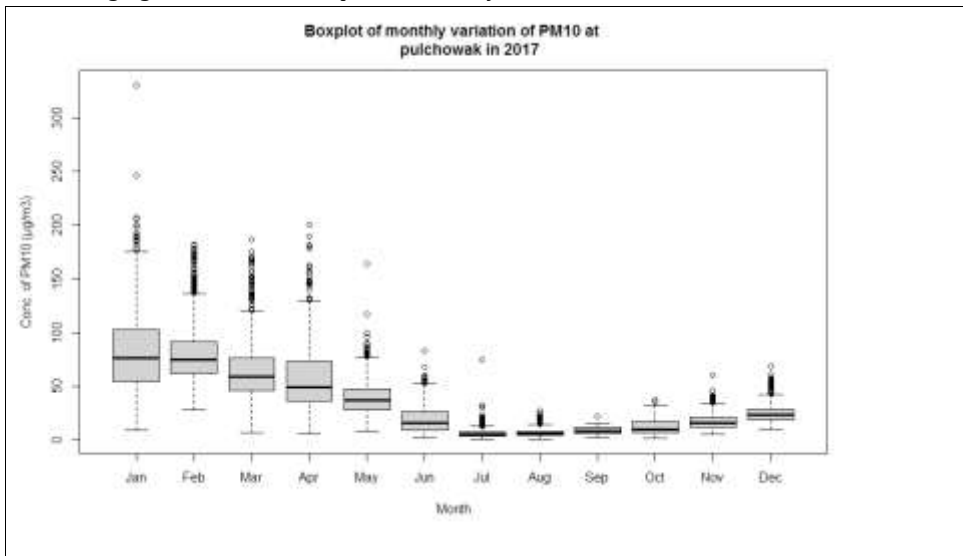


Figure 39. Boxplot of monthly variation of PM10 at Pulchowk in 2017

Above figure shows more variation of hourly average PM10 on January.

Seasonal Average of PM10

Following figure shows seasonal average of PM10 at Pulchowk in 2017.

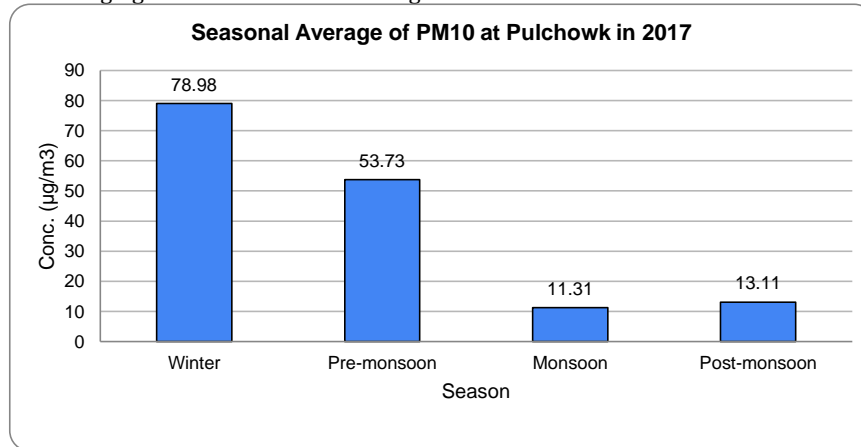


Figure 40. Seasonal average of PM10 at Pulchowk station on 2017

The figure shows highest seasonal average in winter season followed by pre-monsoon while lowest seasonal average was observed in monsoon season

Diurnal Variation of PM10

Following figure shows the diurnal variation of PM10 at Pulchowk in 2017.

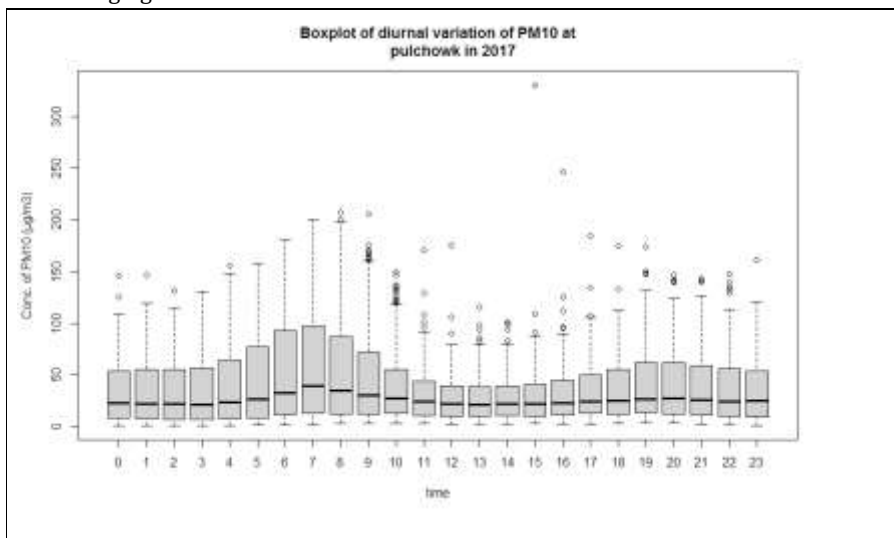


Figure 41. Diurnal variation of Pm10 at Pulchowk in 2017

The boxplot of diurnal variation shows PM10 concentration was highest at 7 O'clock and variation of PM10 was also high at that time.

Compliance with National Ambient Air quality standard

Out of 336 days of measurement all days meet the National Ambient air quality standard for PM10 at Pulchowk station on 2017.

Commented [D2]: graph

2.2.5 Temporal Variation of TSP

Annual Average

Annual TSP average of Pulchowk Station for the year 2017 was observed to be $42.50\mu\text{g}/\text{m}^3$. Following figure shows the histogram of TSP at Pulchowk in 2017.

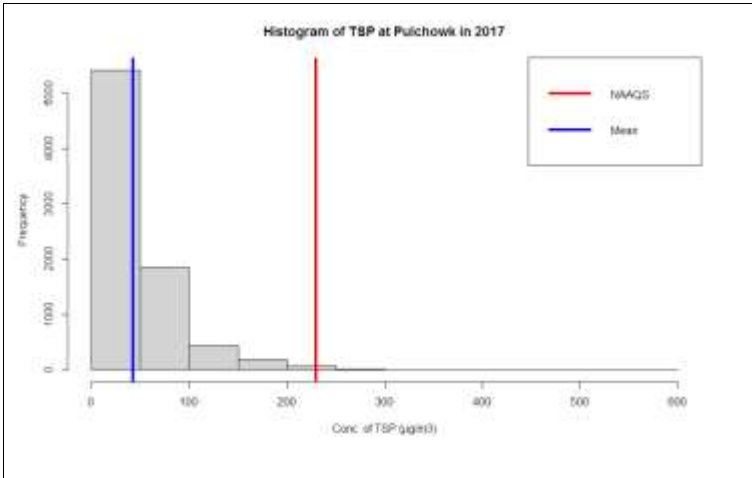


Figure 42. Histogram of TSP at Pulchowk station in 2017

Above figure shows highest no of hourly average of Total suspended Particulate data were between $0-50\mu\text{g}/\text{m}^3$.

Daily average of TSP

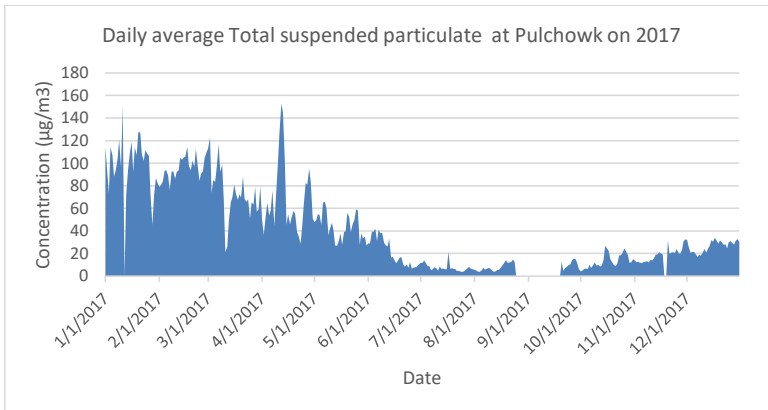


Figure 43. Daily average total suspended particulate at Pulchowk in 2017

Monthly Average of TSP

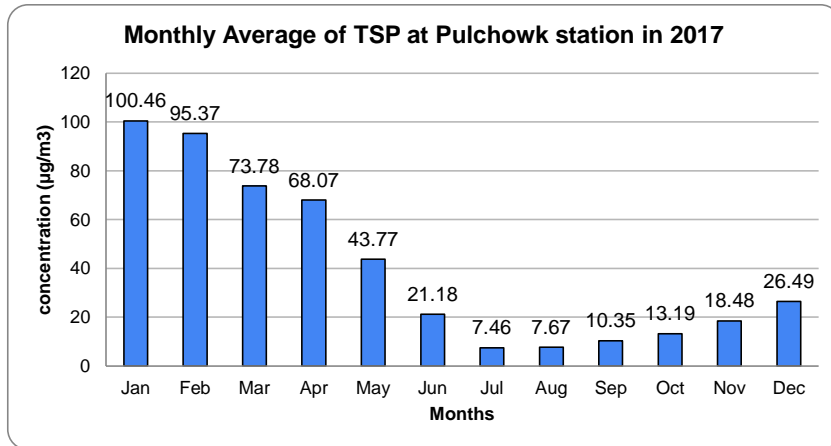


Figure 44. Monthly average of TSP at Pulchowk station in 2017

Above figure shows that the monthly average value of TSP was highest in January with value of 100.46 µg/m³ and lowest in July with value of 7.46 µg/m³.

Monthly variation of TSP

Following figure shows Boxplot of monthly variation of TSP at Pulchowk in 2017

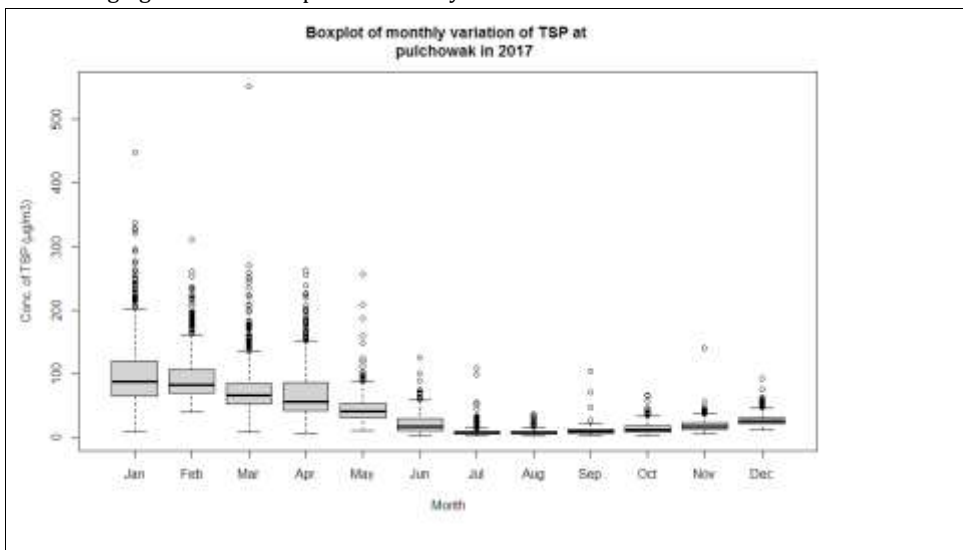


Figure 45. Monthly variation of daily average Total suspended particulate at Pulchowk in 2017

The above figure shows that highest level of variation was seen in January.

Seasonal Average of TSP

Following figure shows the seasonal average of TSP at Pulchowk station in 2017

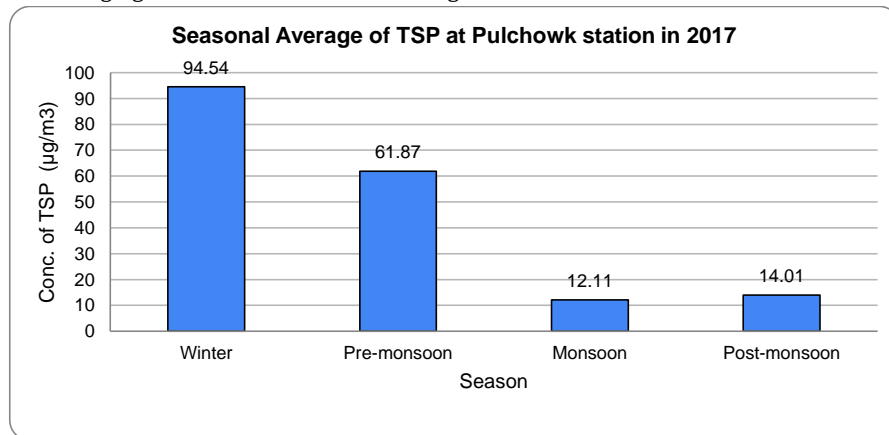


Figure 46. Seasonal average of TSP at Pulchowk station on 2017

Diurnal Variation of TSP

Following figure shows the boxplot of diurnal variation of TSP at Pulchowk in 2017.

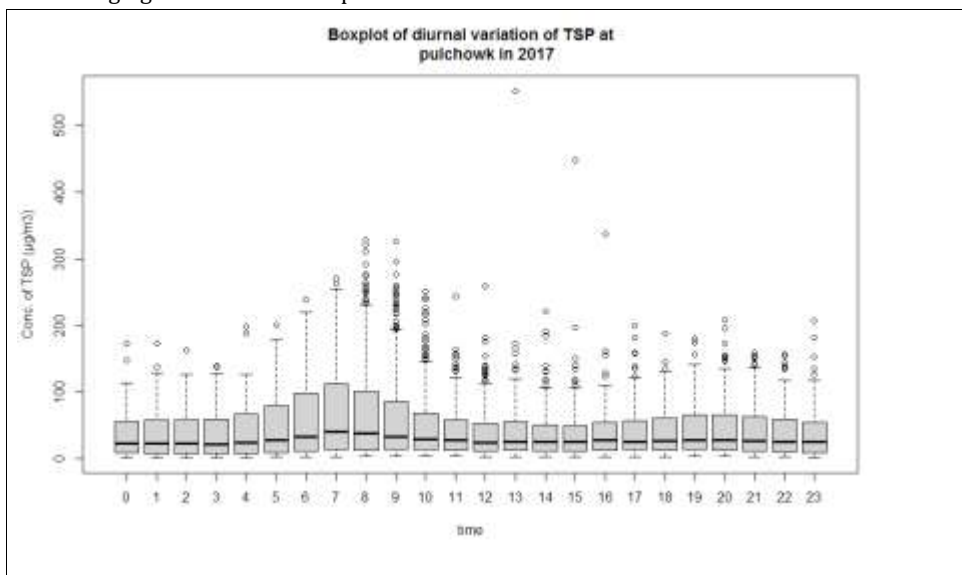


Figure 47. Diurnal variation of TSP at Pulchowk station on 2017

Above figure shows that Total suspended Particulate concentration was highest at 7 and 8 O'clock and variation was also high at that time.

3.5.8 Compliance with National Ambient air quality Standard Out of 336 days of measurement all days meets the National ambient air quality standards for the Total suspended particulate..

2.3 Air Quality Status, 2018

2.3.1 Annual average of PM1, PM2.5, PM10 and TSP

Annual average of all parameters (pm1, pm2.5,pm10 and TSP for this station)

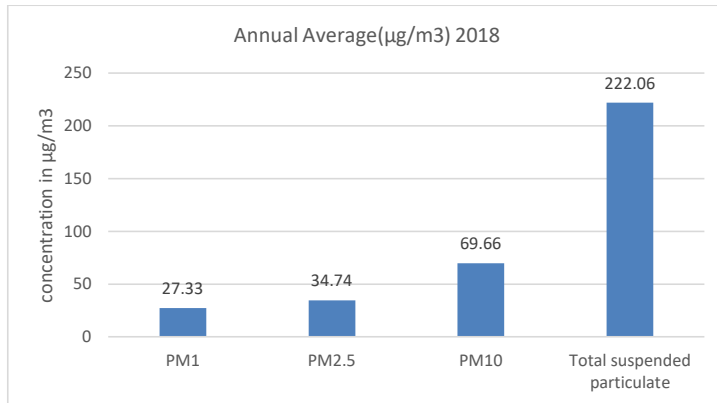


Figure 48. Annual average PM1,PM2.5, PM10 and TSp at Pulchowk station for 2018

2.3.3 Temporal Variation of PM1

Annual Average of PM1

Annual average PM1 at Pulchowk station at 2018 was 27.33 µg/m³. Following figure shows the Histogram of PM1 at Pulchowk in 2018.

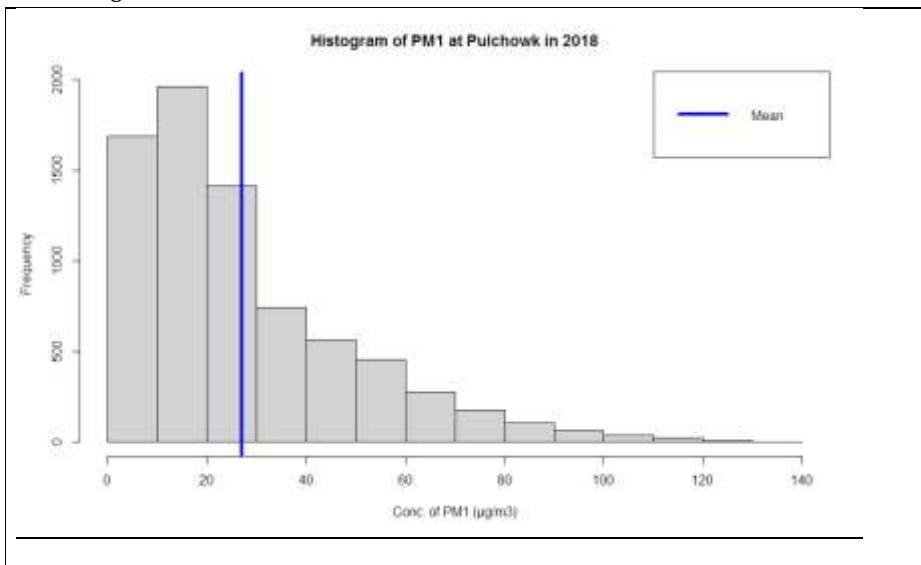


Figure 49. . Histogram of PM1 at Pulchowk in 2018

The Histogram shows that highest no of hourly average data were between 10-20 $\mu\text{g}/\text{m}^3$ followed by 0-10 $\mu\text{g}/\text{m}^3$.

Daily average of PM1

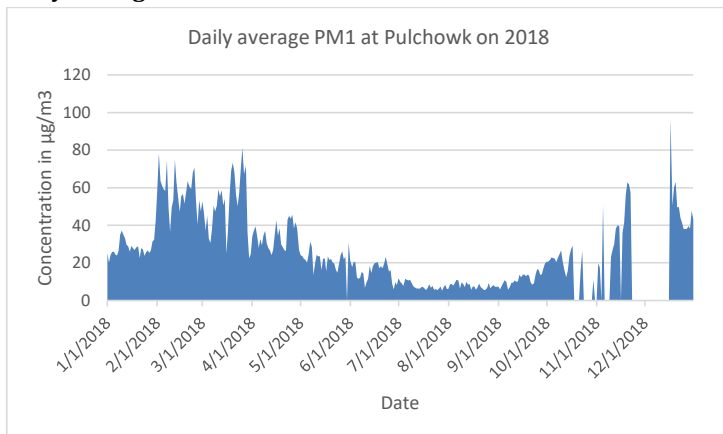


Figure 50. Daily average PM1 at Pulchowk station in 2018

Monthly Average of PM1

Following Figure shows the monthly average of PM1.

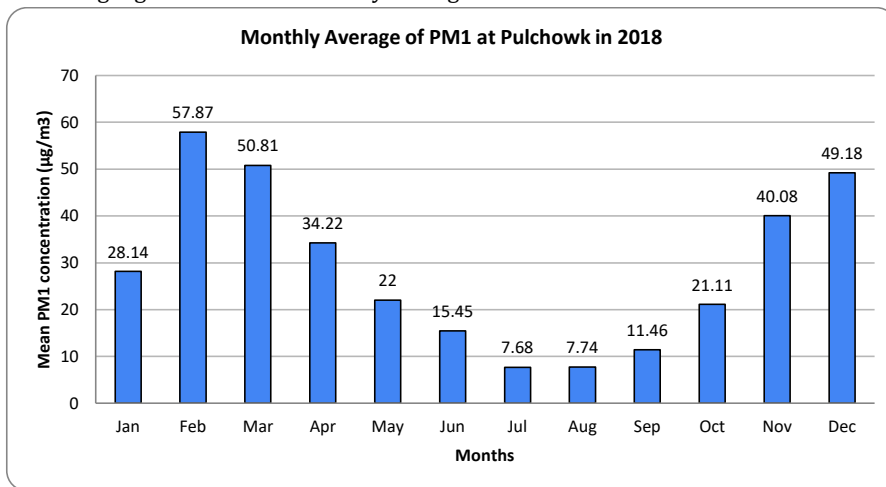


Figure 51. Monthly average PM1 at Pulchowk station in 2018

Above figure shows that the average value of PM₁ was highest in February with 62.71 $\mu\text{g}/\text{m}^3$ and lowest value were observed in July with 7.68 $\mu\text{g}/\text{m}^3$.

Monthly Variation of PM1

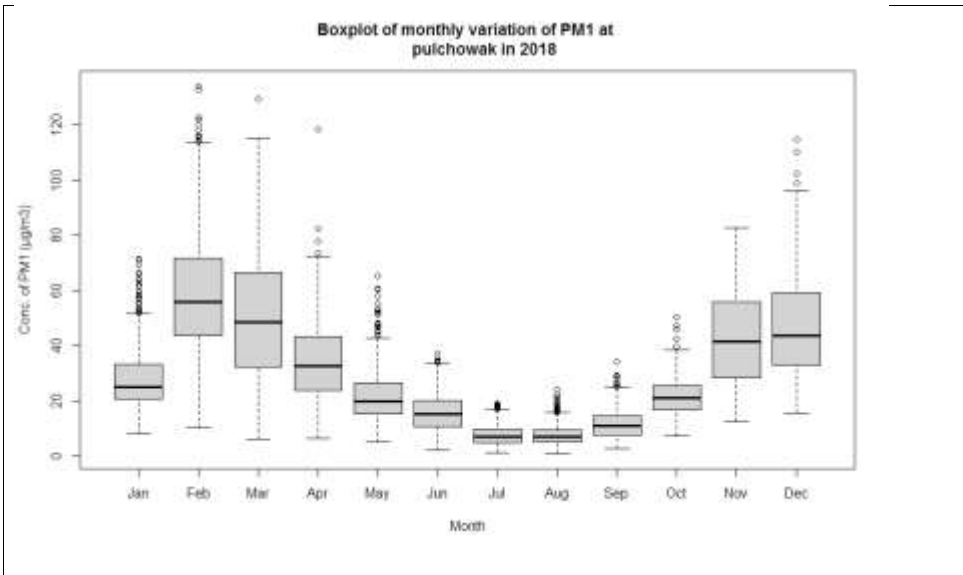


Figure 52. Monthly variation of daily average PM1 at Pulchowk station in 2018

Boxplot of monthly variation of PM1 shows that highest variation was seen on March.

Seasonal Average of PM1

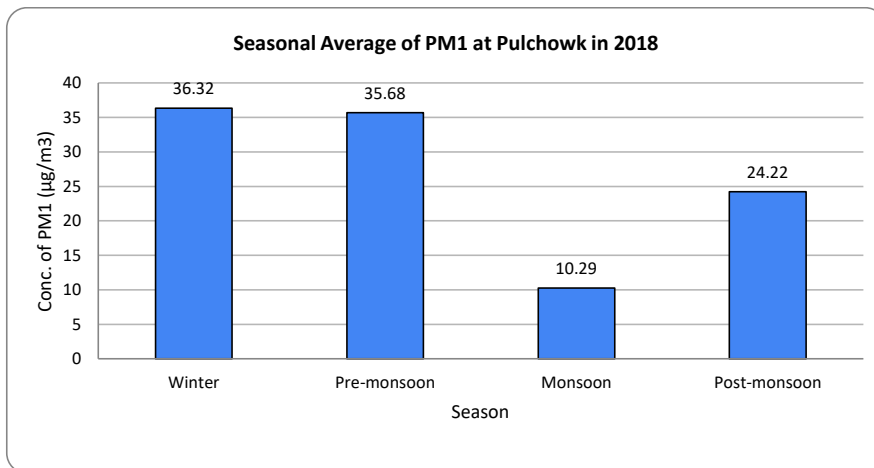


Figure 53. Ambient concentration of average PM1 with four seasons

Diurnal Variation of PM1

Following figure shows the boxplot of diurnal variation of PM1 at Pulchowk station in 2018.

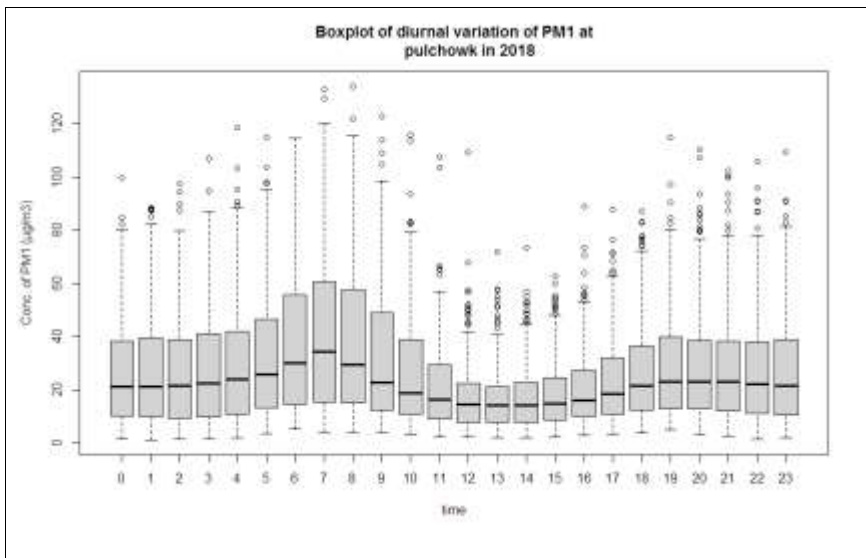


Figure 54. Boxplot of diurnal variation of PM1 at Pulchowk station in 2018

Above figure shows that Pm1 concentration was more at 7 o'clock and it was more variable at that time.

2.3.3 Temporal Variation of PM2.5

Annual Average

The annual average of PM2.5 at Pulchowk station on 2017 was 34.74 $\mu\text{g}/\text{m}^3$. Following figure shows the Histogram of PM2.5 at Pulchowk station in 2018.

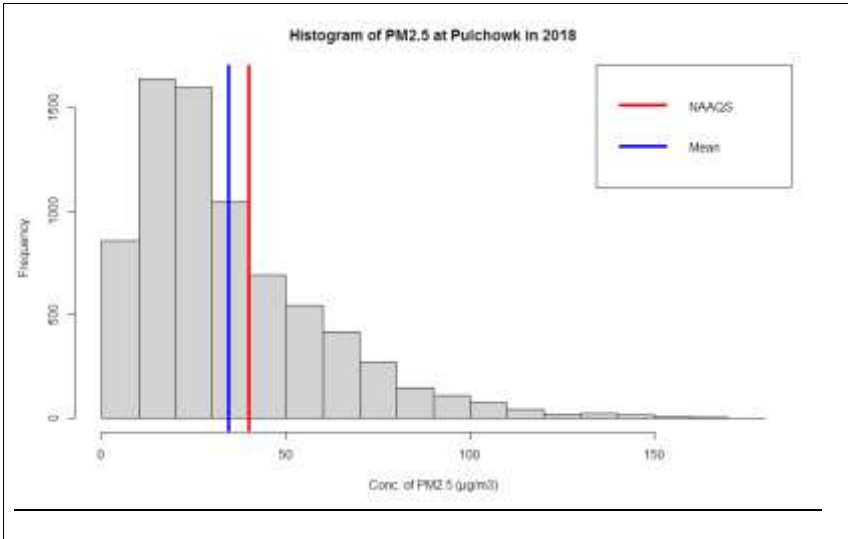


Figure 55. Histogram of PM2.5 at Pulchowk in 2018

The Histogram shows that highest no of hourly average data were between 10-20 $\mu\text{g}/\text{m}^3$ followed by 20-30 $\mu\text{g}/\text{m}^3$.

Daily Average of PM2.5

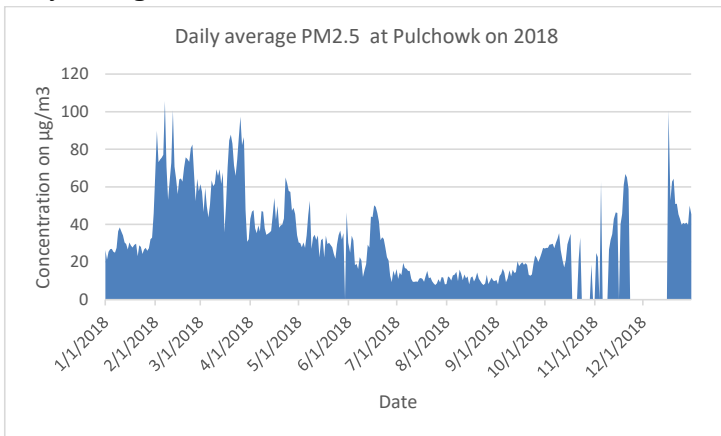


Figure 56. Daily average PM2.5 at Pulchowk station in 2018

Monthly Average of PM2.5

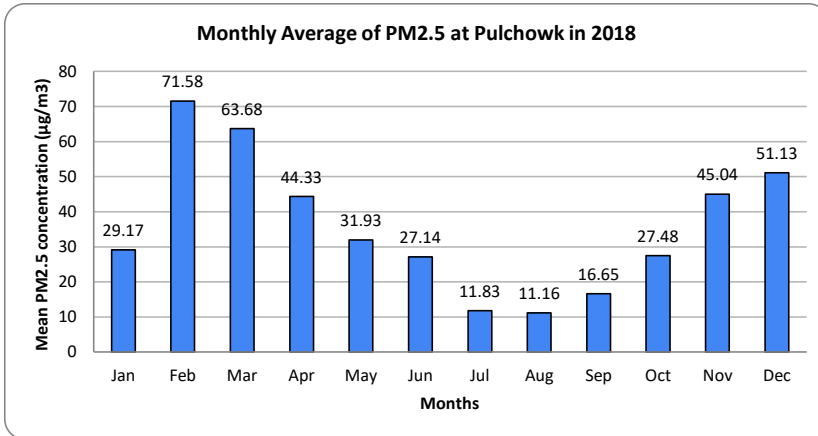


Figure 57. Monthly average of PM2.5 at Pulchowk station in 2018

Above figure shows that the monthly average value of PM_{2.5} was highest in February with 71.58 µg/m³ while lowest value were observed in August with 11.16 µg/m³

Monthly Variation of PM2.5

Following figure shows the boxplot of monthly variation of PM_{2.5} at Pulchowk in 2018.

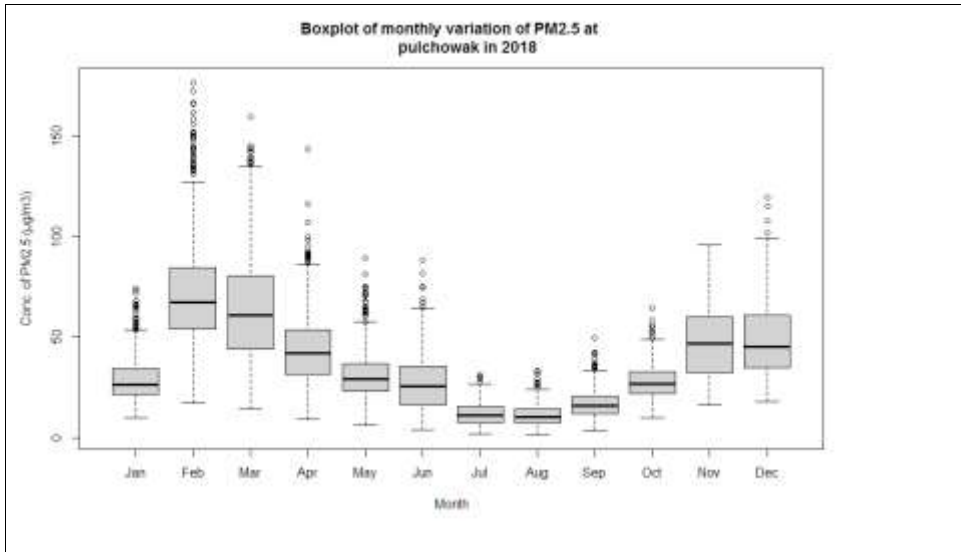


Figure 58. Monthly variation of daily average PM2.5 at Pulchowk in 2018

Above figure shows that hourly average data of PM_{2.5} was more variable in March.

Seasonal Average of PM2.5

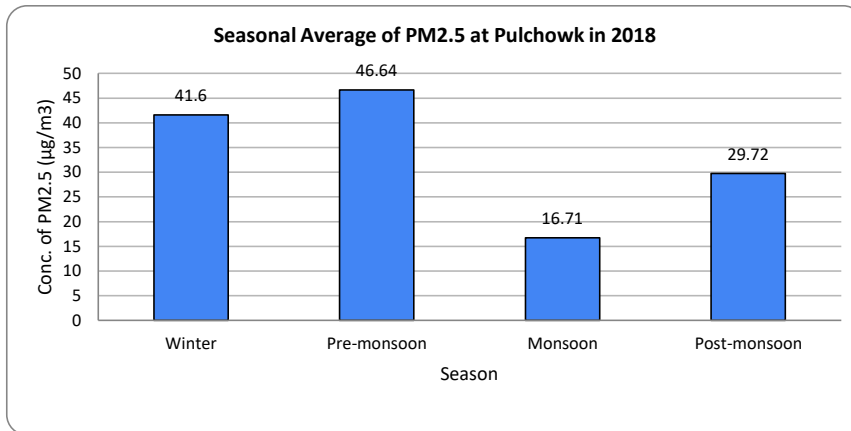


Figure 59. . Seasonal variation of PM2.5 at Pulchowk station in 2018

The figure shows highest seasonal average pre-monsoon season followed by winter season while lowest seasonal average was observed in monsoon season.

Diurnal Variation of PM2.5

Following figure shows the boxplot of diurnal variation of PM2.5 at Pulchowk

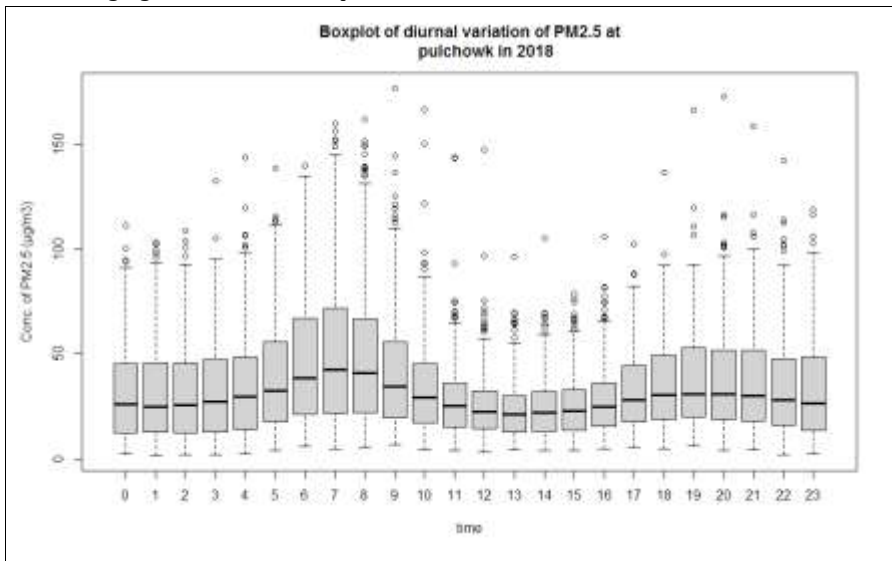


Figure 60. Boxplot of diurnal variation of PM2.5 at Pulchowk in 2018

Above figure shows PM2.5 concentrations was highest was at 7 o'clock and also more variable at that time.

Compliance with National Ambient air Quality standard

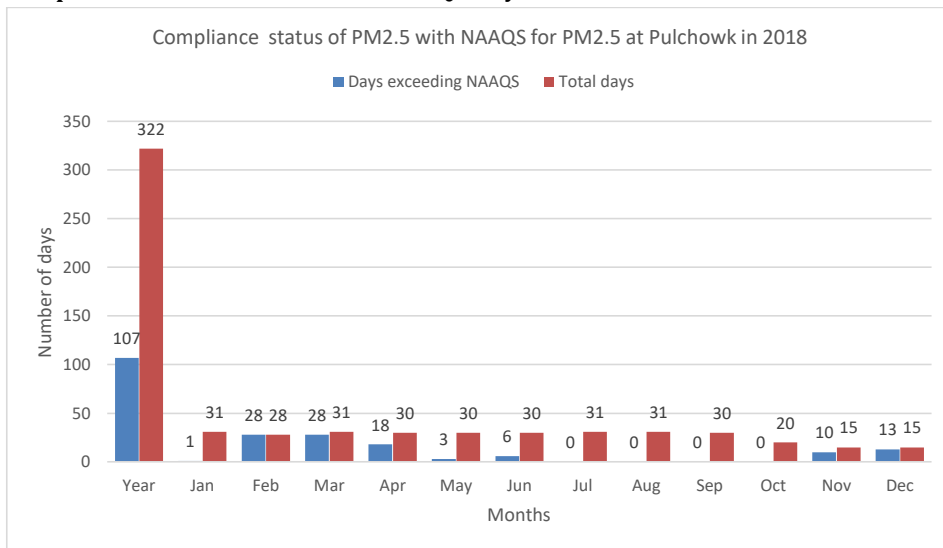


Figure 61. Compliance with National Ambient air quality standard for PM2.5 at Pulchowk station in 2018

Out of total 322 days of Measurement 107 days exceeded the National ambient air quality standard for PM2.5 at Pulchowk station in 2018.

2.3.4 Temporal Variation of PM10

Annual Average

The annual average PM10 at Pulchowk station on 2018 was $69.66 \mu\text{g}/\text{m}^3$. Following figure shows the Histogram of PM10 at Pulchowk station in 2018.

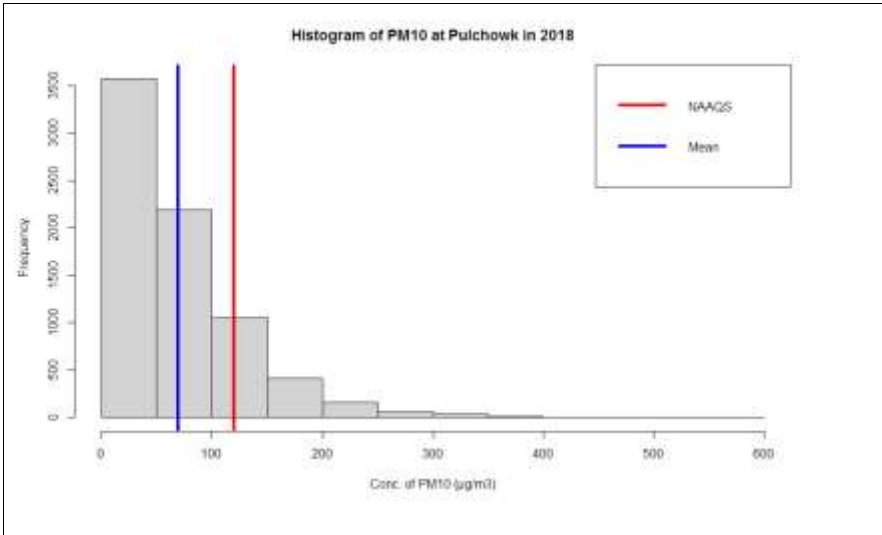


Figure 62. Histogram of PM10 at Pulchowk in 2018

Above figure shows that highest no of hourly average data were between 0-50 $\mu\text{g}/\text{m}^3$ followed by 50-100 $\mu\text{g}/\text{m}^3$.

Daily average of PM10

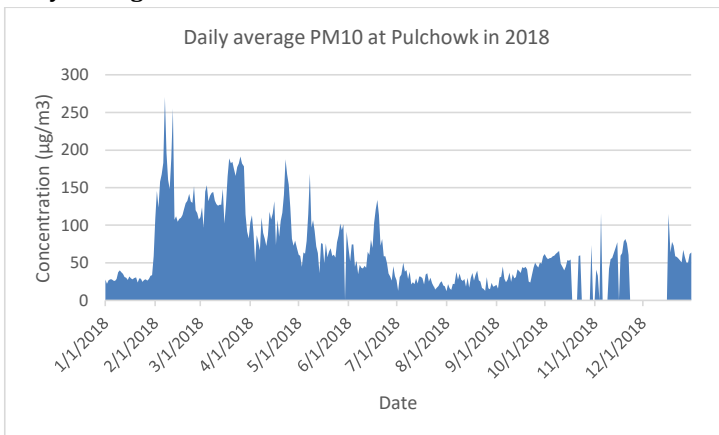


Figure 63. Daily average PM10 at Pulchowk station in 2018

Monthly Average of PM10

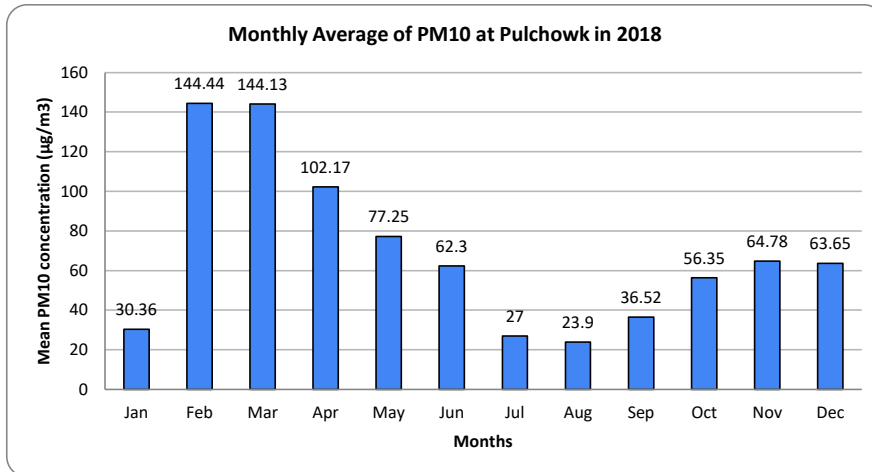


Figure 64 . Monthly average PM10 at Pulchowk station in 2018

Above figure shows that the highest monthly average value of PM10 was found in February with average value of 144.44 µg/m³ and lowest average was found in August with average value of 23.9 µg/m³.

Monthly Variation of PM10

Following figure shows the boxplot of monthly variation of PM10 at Pulchowk in 2018

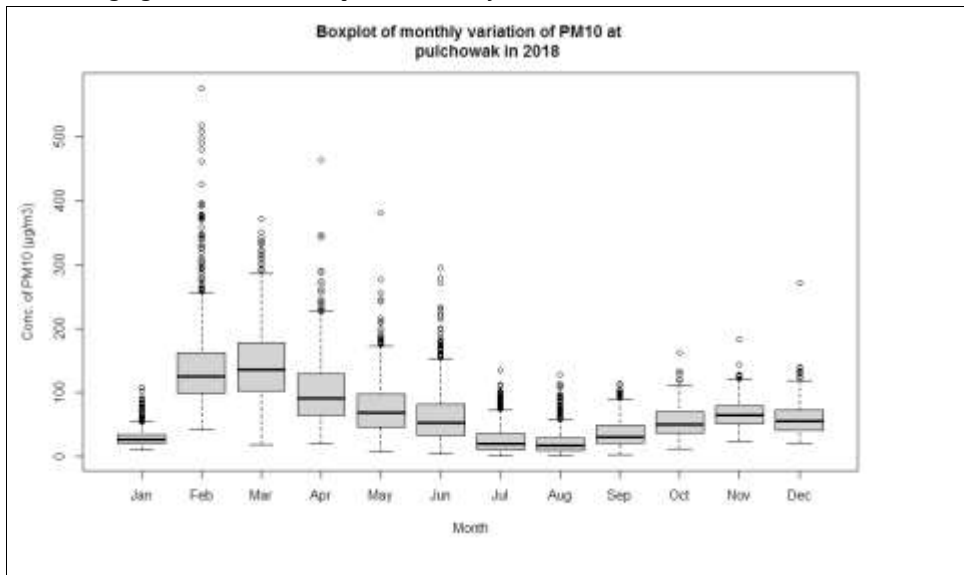


Figure 65.Boxplot of monthly variation of PM10 at Pulchowk in 2018

Above figure shows more variation of hourly average PM10 on March.

Seasonal Average of PM10

Following figure shows seasonal average of PM10 at Pulchowk in 2018.

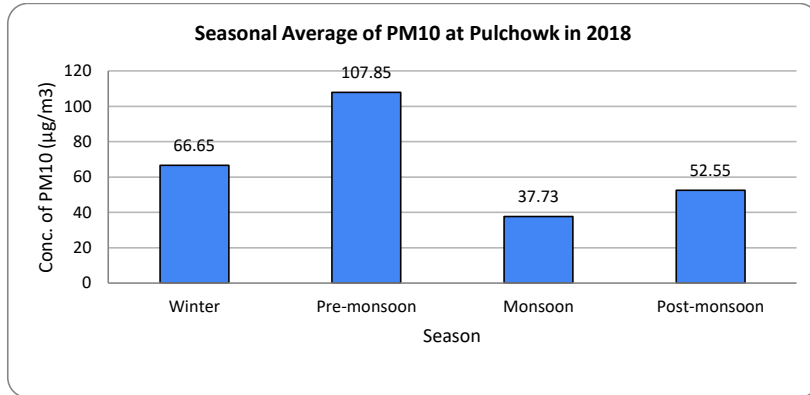


Figure 66. Seasonal average of PM10 at Pulchowk station in 2018

The figure shows highest seasonal average in premonsoon season followed by winter season while lowest seasonal average was observed in monsoon season

Diurnal Variation of PM10

Following figure shows the diurnal variation of PM10 at Pulchowk in 2018.

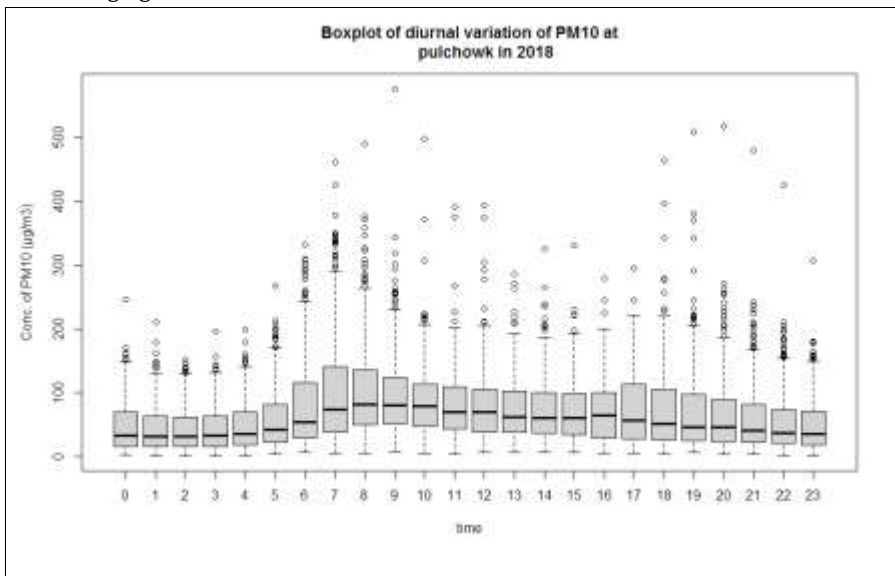


Figure 67. Diurnal variation of Pm10 at Pulchowk in 2018

The boxplot of diurnal variation shows PM10 concentration was highest at 8 and 9 O'clock and variation of PM10 was high at 7 o'clock.

Compliance with National Ambient Air quality standard

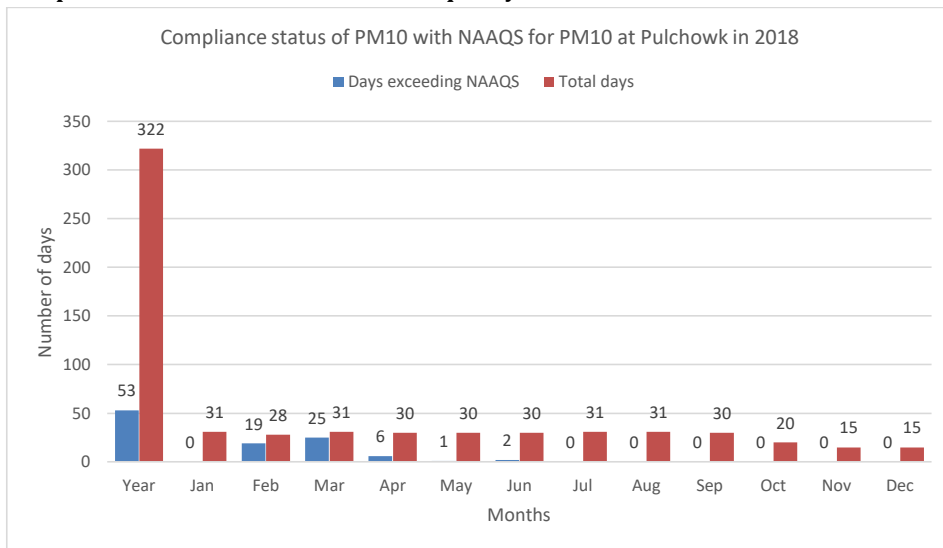


Figure 68. Compliance with NAAQS for PM10 at Pulchowk in 2018

Out of 322 days of measurement in 2018, 53 days exceeded the National Ambient air quality standard for PM10 at Pulchowk station in 2018.

2.3.5 Temporal Variation of TSP

Annual Average of TSP

Annual TSP average of Pulchowk Station for the year 2018 was observed to be $222.06\mu\text{g}/\text{m}^3$. Following figure shows the histogram of TSP at Pulchowk in 2018.

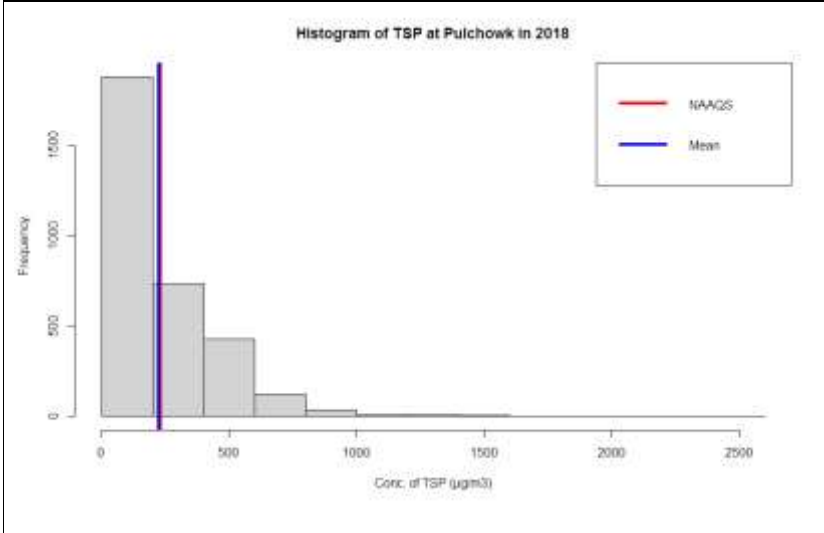


Figure 69. Histogram of TSP at Pulchowk station in 2018

Above figure shows highest no of hourly average of Total suspended Particulate data were between 0-200 $\mu\text{g}/\text{m}^3$.

Daily average of TSP

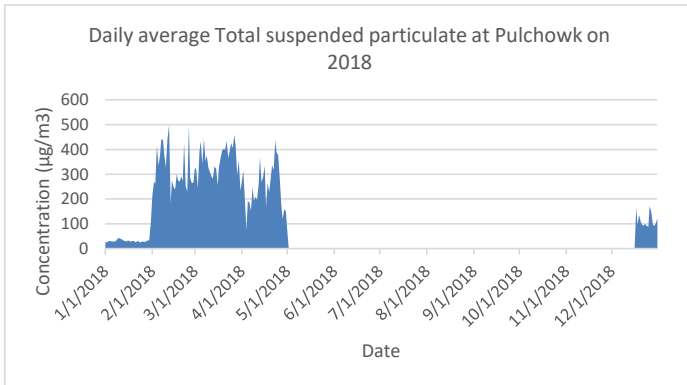


Figure 70. Daily average total suspended particulate at Pulchowk in 2018

Monthly Average of TSP

Following figure shows the monthly average of Total Suspended Particulate at Pulchowk in 2018.

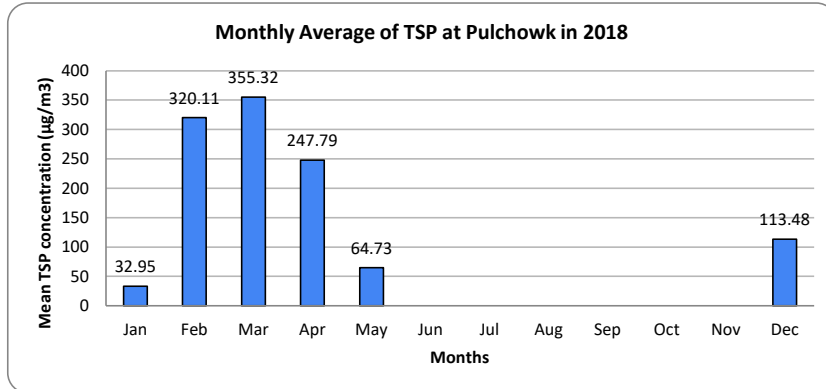


Figure 71. Monthly average of TSP at Pulchowk station in 2018

In 2018 only six month have TSP Measurement. Out of those six month with TSP Measurement the monthly average value of TSP was highest in March with value of 355.32 µg/m³ and lowest in May with value of 64.73 µg/m³.

Monthly variation of TSP

Following figure shows Boxplot of monthly variation of TSP at Pulchowk in 2018

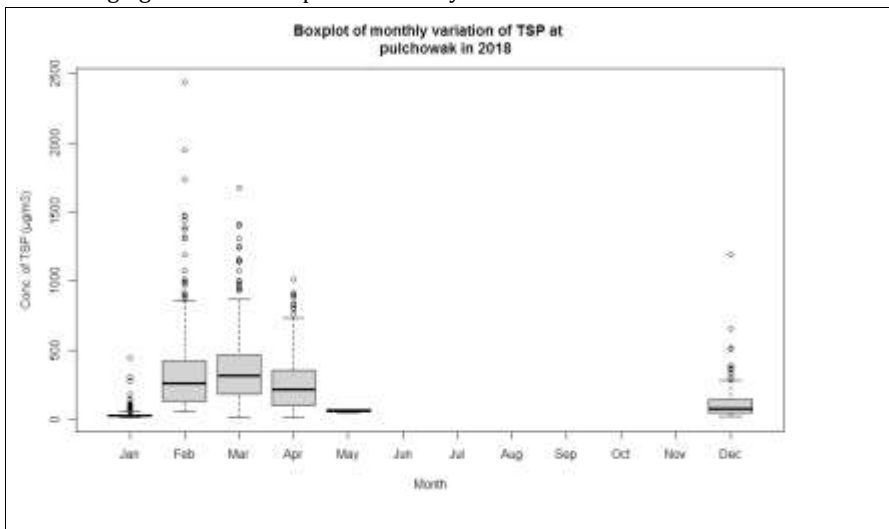


Figure 72. Monthly variation of daily average Total suspended particulate at Pulchowk in 2018

The above figure shows that highest level of variation was seen in February and March.

Seasonal Average of TSP

Following figure shows the seasonal variation of TSP at Pulchowk station in 2018

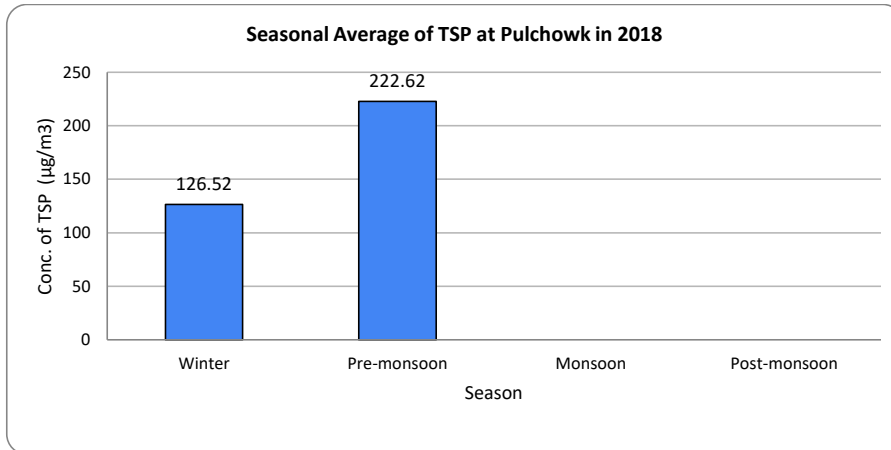


Figure 73. Seasonal average of TSP at Pulchowk station in 2018

Only winter season and Premonsoon season have measurement in 2018. In those two months Premonsoon has higher average value than Winter season.

Diurnal Variation of TSP

Following figure shows the boxplot of diurnal variation of TSP at Pulchowk in 2018.

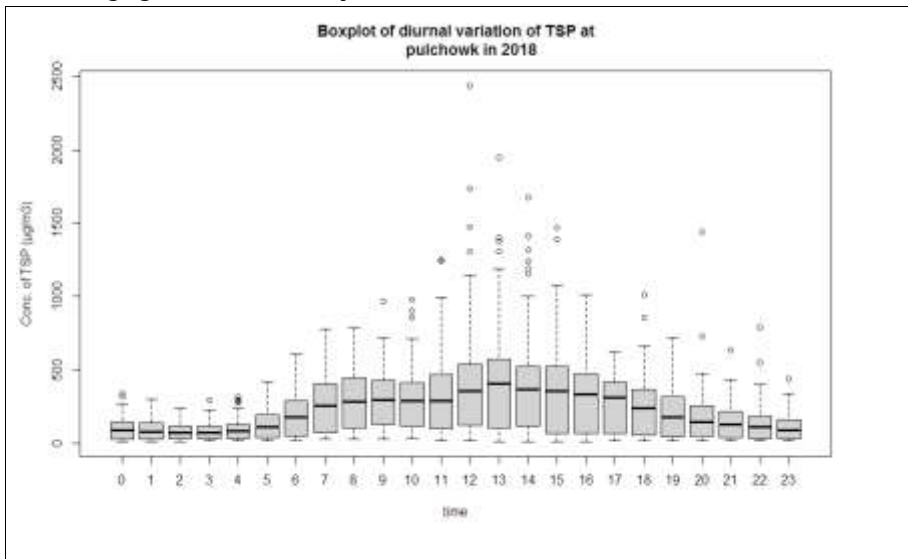


Figure 74. Diurnal variation of TSP at Pulchowk station in 2018

Above figure shows that Total suspended Particulate concentration was highest at 13 O'clock and variation was also high at that time.

Compliance with National Ambient air quality Standard

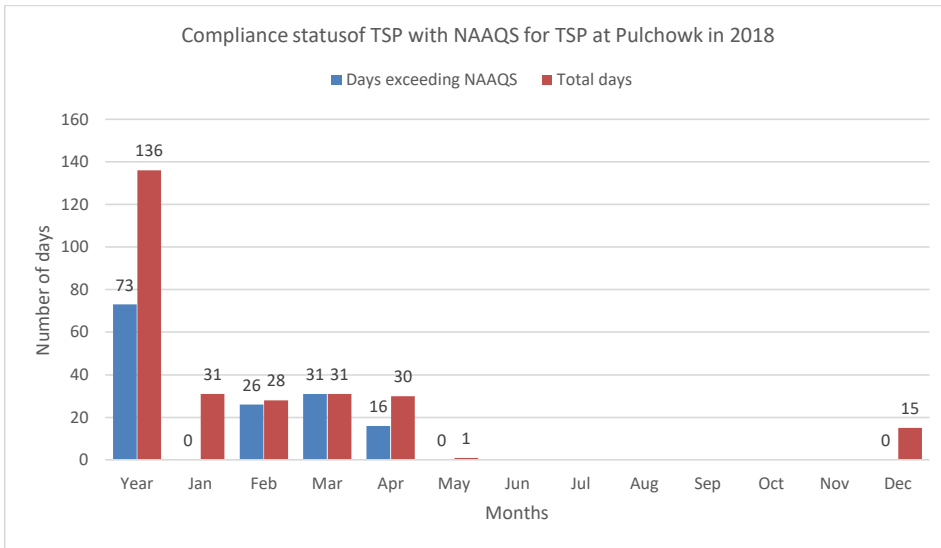


Figure 75. Compliance with NAAQS for TSP at Pulchowk in 2018

Out of 136 days of measurement 73 days exceed the National ambient air quality standards for the Total suspended particulate.

2.4 Air quality status, 2019

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

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

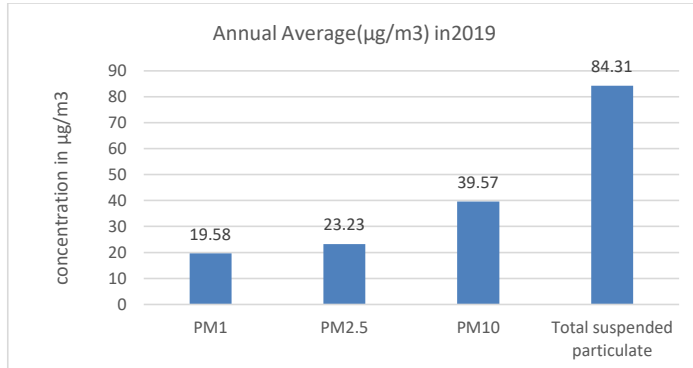


Figure 76. Annual average PM₁, PM_{2.5}, PM₁₀ and TSp at Pulchowk station for 2019

2.4.2 Temporal Variation of PM₁

Annual Average of PM₁

Annual average PM₁ at Pulchowk station at 2019 was 19.58 µg/m³. Following figure shows the Histogram of PM₁ at Pulchowk in 2019.

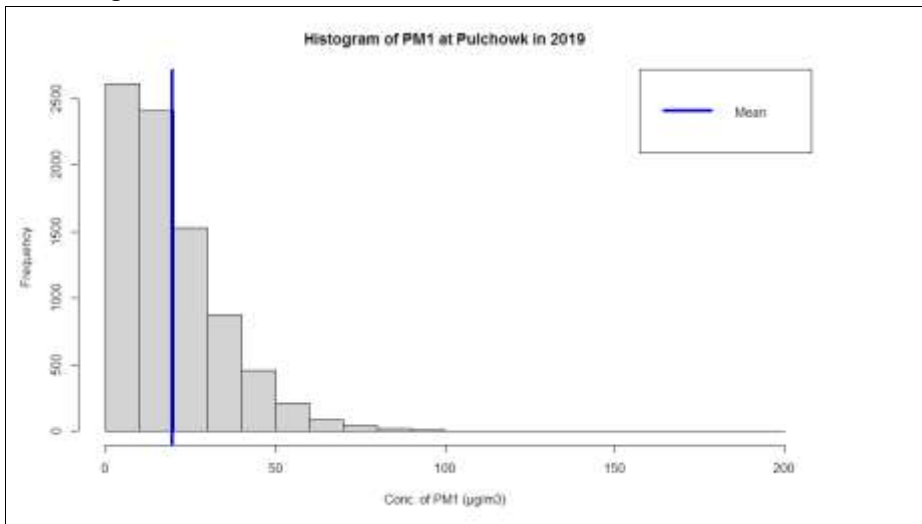


Figure 77. Histogram of PM₁ at Pulchowk in 2019

The Histogram shows that highest no of hourly average data were between 0-10µg/m³ followed by 10-20µg/m³.

Daily average of PM1

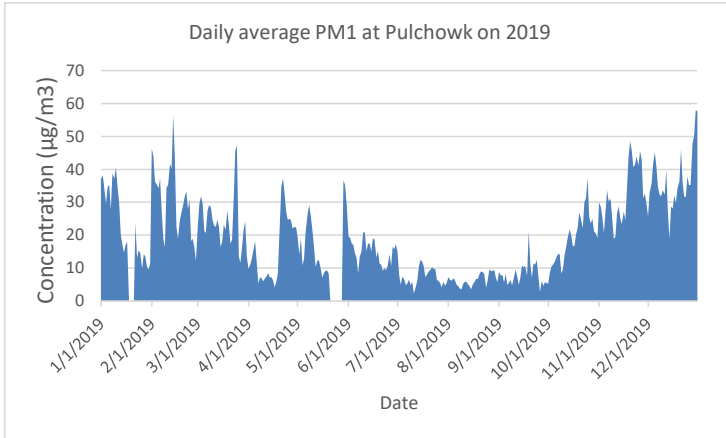


Figure 78. Daily average PM1 at Pulchowk station in 2019

Monthly Average of PM1

Following Figure shows the monthly average of PM1.

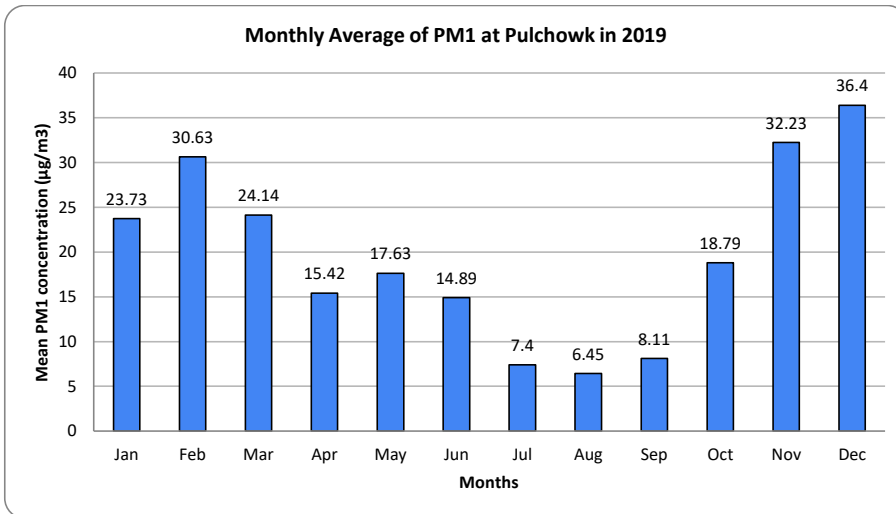


Figure 79. Monthly average PM1 at Pulchowk station in 2019

Above figure shows that the average value of PM1 was highest in December with $36.4\mu\text{g}/\text{m}^3$ and lowest value were observed in August with $6.45\mu\text{g}/\text{m}^3$.

Monthly Variation of PM1

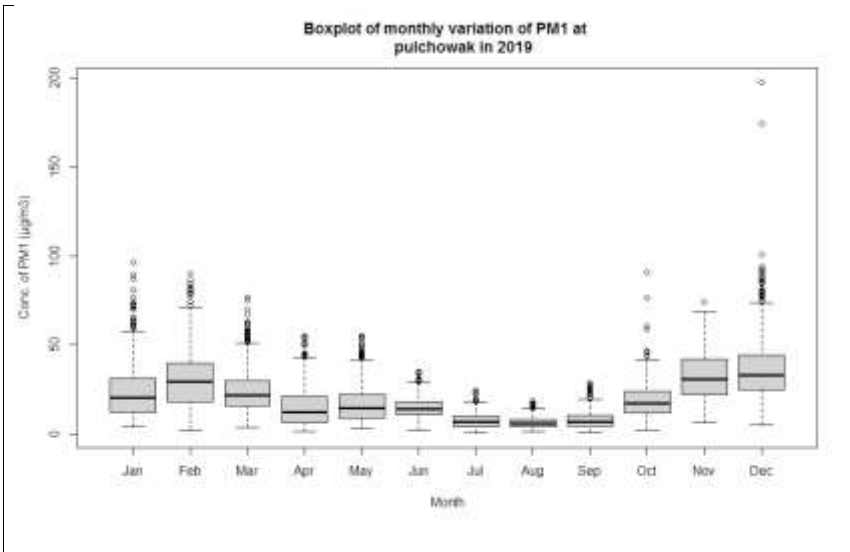


Figure 80. Monthly variation of daily average PM1 at Pulchowk station in 2019

Boxplot of monthly variation of PM1 shows that highest variation was seen on February, November and December.

Seasonal Average of PM1

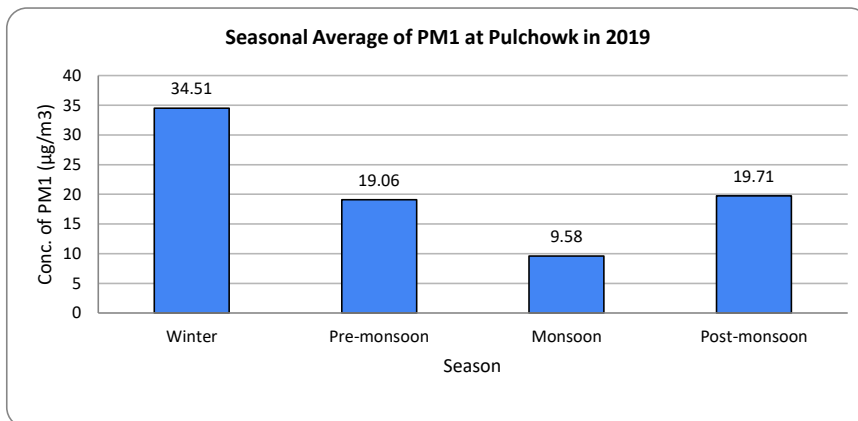


Figure 81. Ambient concentration of average PM1 with four seasons

Highest seasonal average was observed in winter with seasonal average of 34.51µg/m³.

Diurnal Variation of PM1

Following figure shows the boxplot of diurnal variation of PM1 at Pulchowk station in 2019.

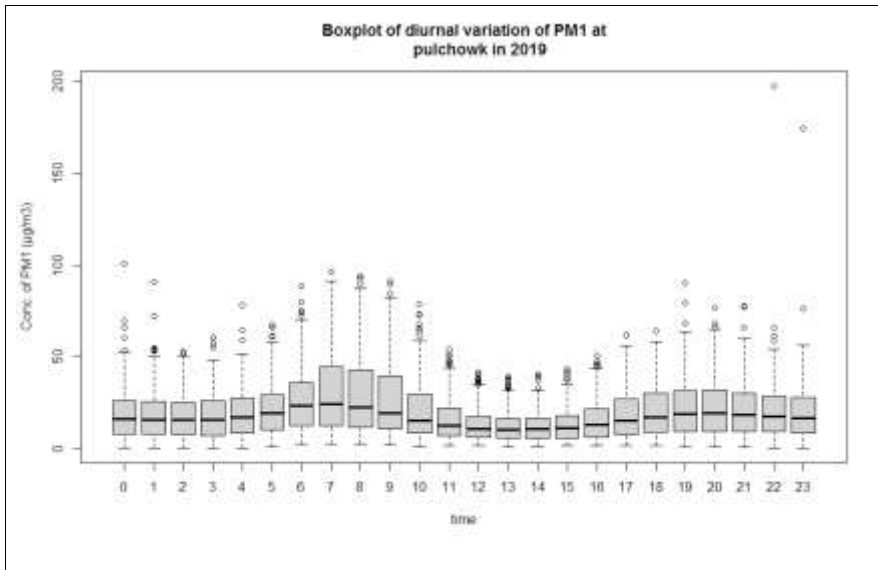


Figure 82. Boxplot of diurnal variation of PM1 at Pulchowk station in 2019

Above figure shows that Pm1 concentration was more at 7 and 8 o'clock and it was more variable at that time.

2.4.3 Temporal Variation of PM2.5

Annual Average of PM2.5

The annual average of PM2.5 at Pulchowk station in 2019 was 23.23 $\mu\text{g}/\text{m}^3$. Following figure shows the Histogram of PM2.5 at Pulchowk station in 2019.

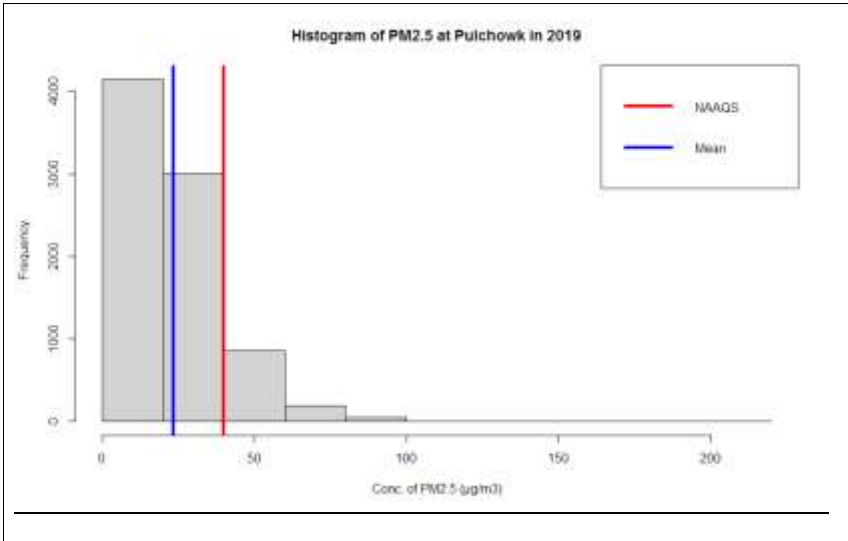


Figure 83. Histogram of PM2.5 at Pulchowk in 2019

The Histogram shows that highest no of hourly average data were between 0-20 $\mu\text{g}/\text{m}^3$ followed by 20-40 $\mu\text{g}/\text{m}^3$.

Daily Average of PM2.5

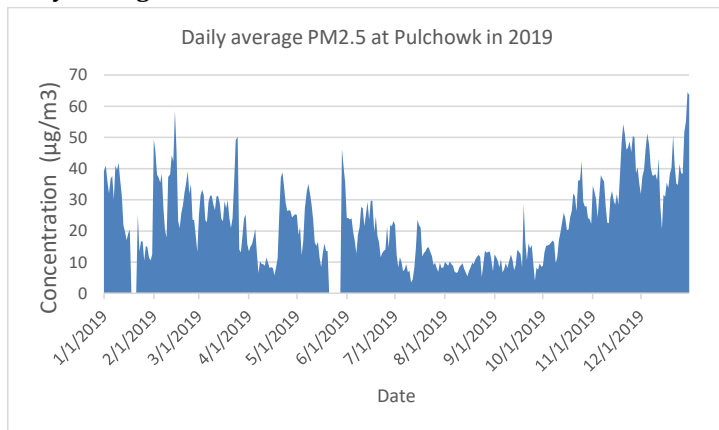


Figure 84. Daily average PM2.5 at Pulchowk station in 2019

Monthly Average of PM2.5

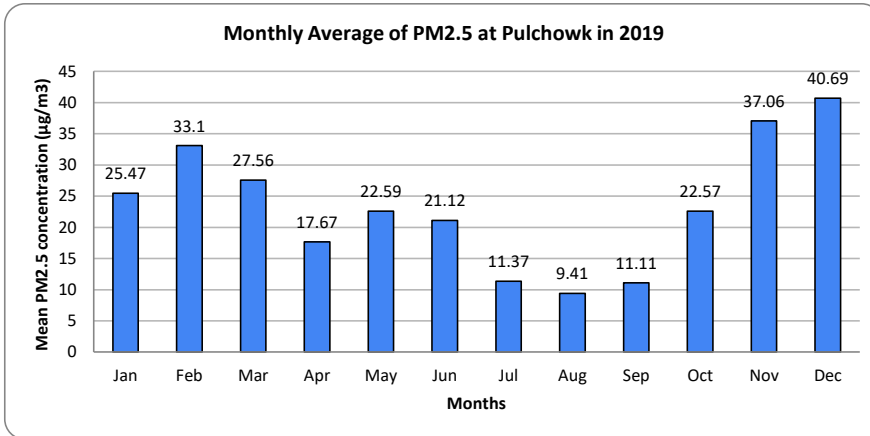


Figure 85. Monthly average of PM2.5 at Pulchowk station in 2019

Monthly average value of PM_{2.5} was highest in December with monthly average of 40.69 µg/m³ while lowest value were observed in August with monthly average of 9.41 µg/m³

Monthly Variation of PM2.5

Following figure shows the boxplot of monthly variation of PM2.5 at Pulchowk in 2019.

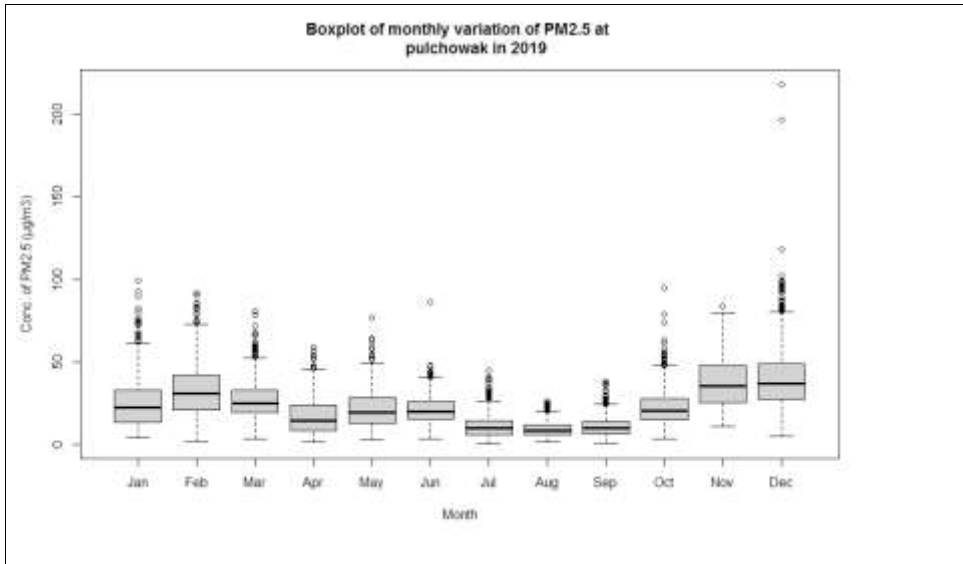


Figure 86. Monthly variation of daily average PM2.5 at Pulchowk in 2019

Above figure shows that hourly average data of PM2.5 was more variable in November and December.

Seasonal Average of PM2.5

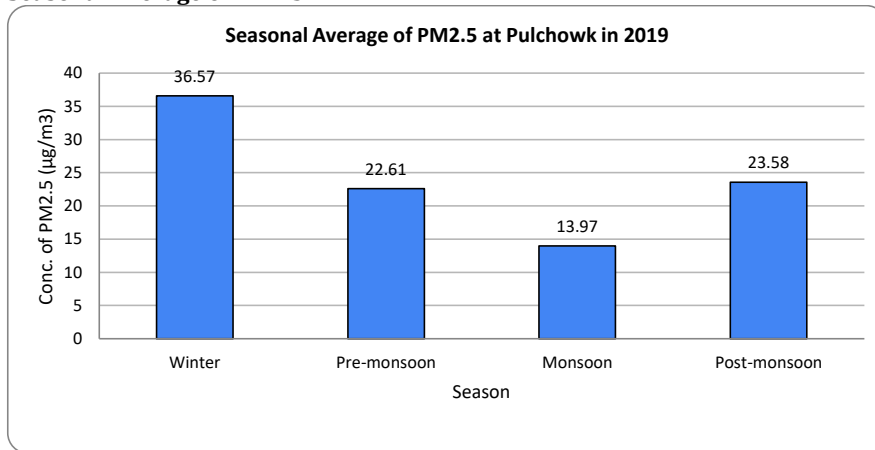


Figure 87. Seasonal variation of PM2.5 at Pulchowk station in 2019

Highest seasonal average was observed in winter season and lowest seasonal average was observed in monsoon season.

Diurnal Variation of PM2.5

Following figure shows the boxplot of diurnal variation of PM2.5 at Pulchowk

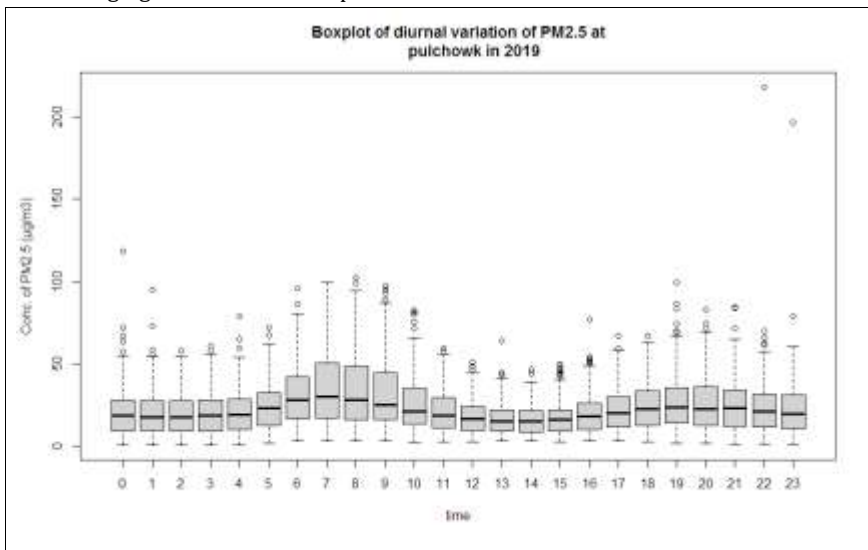


Figure 88. Boxplot of diurnal variation of PM2.5 at Pulchowk in 2019

PM2.5 concentrations was highest was at 7 and 8 o'clock and also more variable at that time.

Compliance with National Ambient air Quality standard

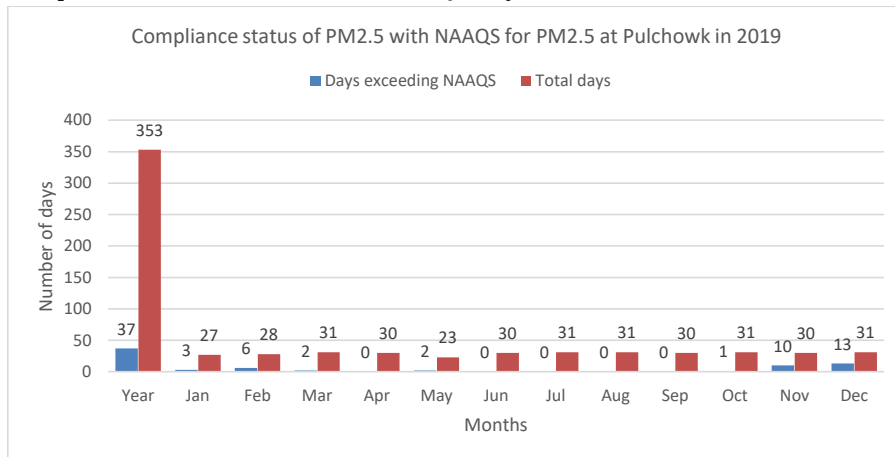


Figure 89. Compliance with National Ambient air quality standard for PM2.5 at Pulchowk station in 2019
 Out of total 353 days of Measurement 37 days exceeded the National ambient air quality standard for PM2.5 at Pulchowk station in 2019.

2.4.4 Temporal Variation of PM10

Annual Average of PM10

The annual average PM10 at Pulchowk station on 2019 was 39.57 $\mu\text{g}/\text{m}^3$. Following figure shows the Histogram of PM10 at Pulchowk station in 2019.

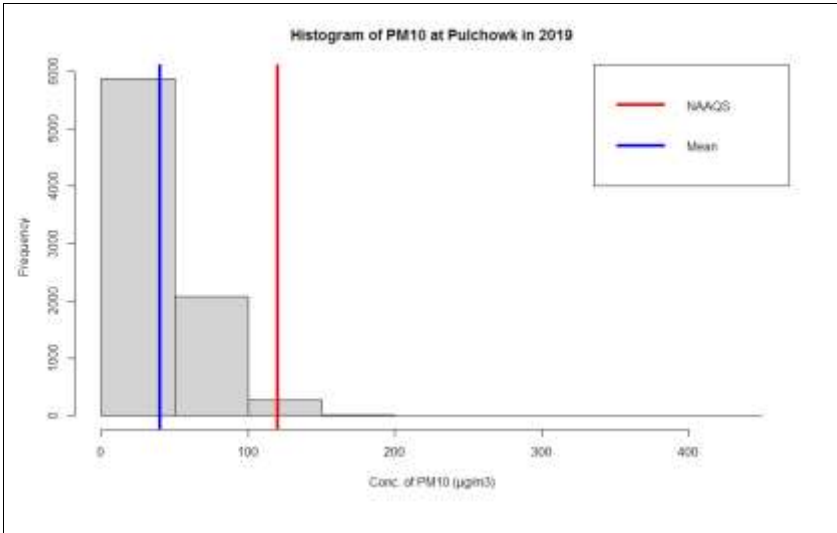


Figure 90. . Histogram of PM10 at Pulchowk in 2019

Above figure shows that highest no of hourly average data were between 0-50 $\mu\text{g}/\text{m}^3$ followed by 50-100 $\mu\text{g}/\text{m}^3$.

Daily average of PM10

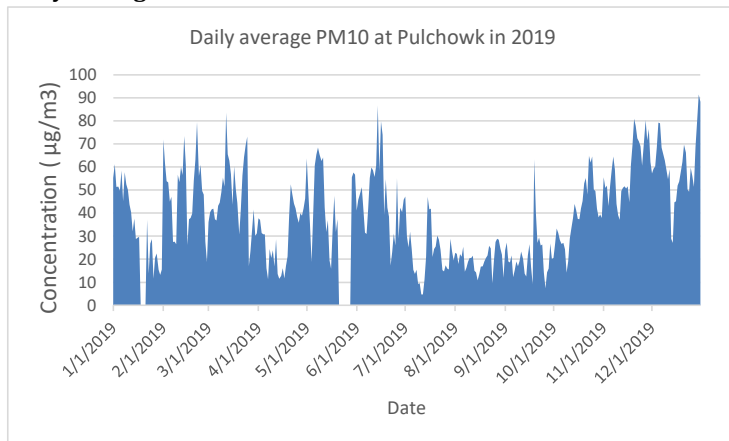


Figure 91. Daily average PM10 at Pulchowk station in 2019

Monthly Average of PM10

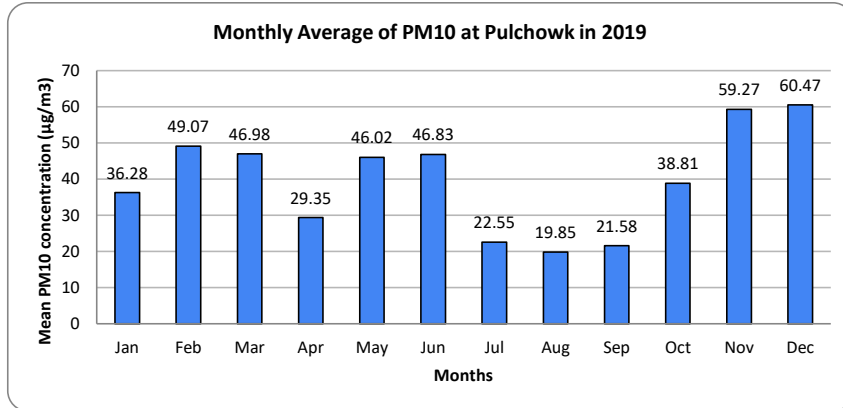


Figure 92. Monthly average PM10 at Pulchowk station in 2019

The highest monthly average value of PM10 was found in December with average value of 60.47 µg/m³ and lowest average was found in August with average value of 19.85 µg/m³.

Monthly Variation of PM10

Following figure shows the boxplot of monthly variation of PM10 at Pulchowk in 2019

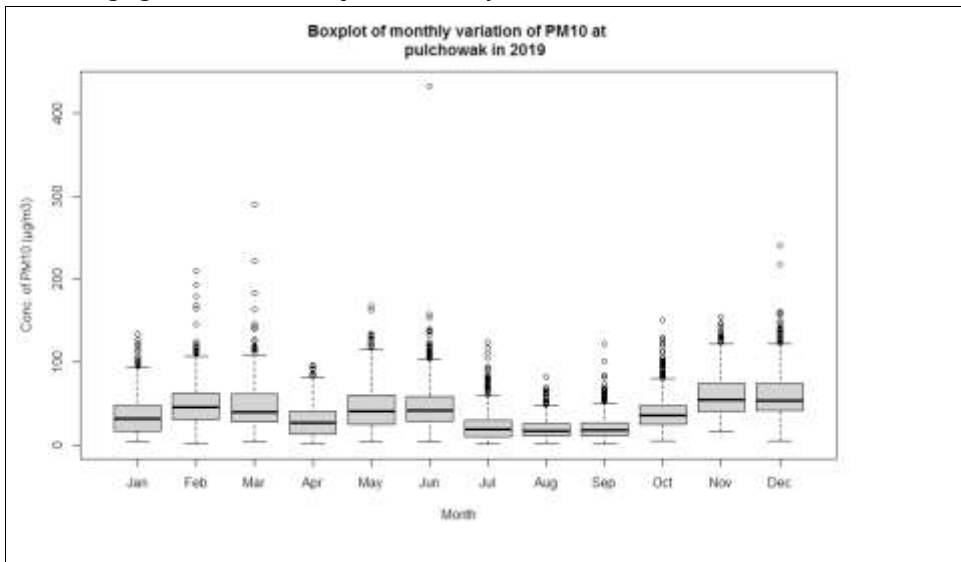


Figure 93. Boxplot of monthly variation of PM10 at Pulchowk in 2019

Above figure shows more variation of hourly average PM10 on May, November and December.

Seasonal Average of PM10

Following figure shows seasonal average of PM10 at Pulchowk in 2019.

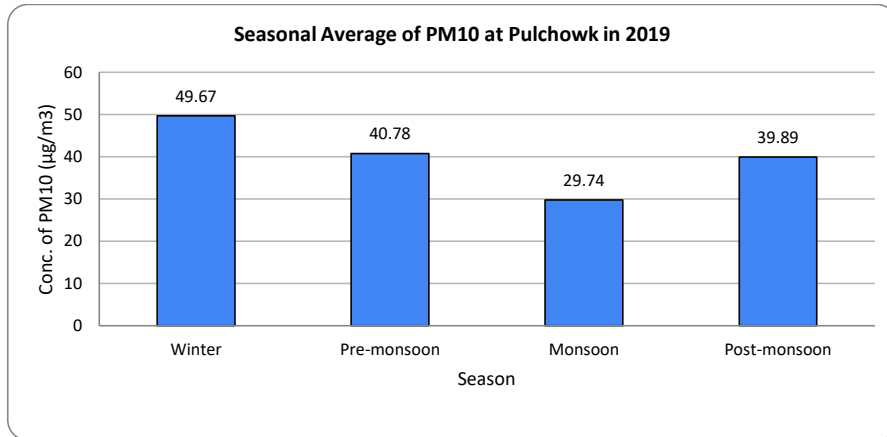


Figure 94. Seasonal average of PM10 at Pulchowk station in 2019

The figure shows highest seasonal average in Winter season while lowest seasonal average was observed in monsoon season

Diurnal Variation of PM10

Following figure shows the diurnal variation of PM10 at Pulchowk in 2019.

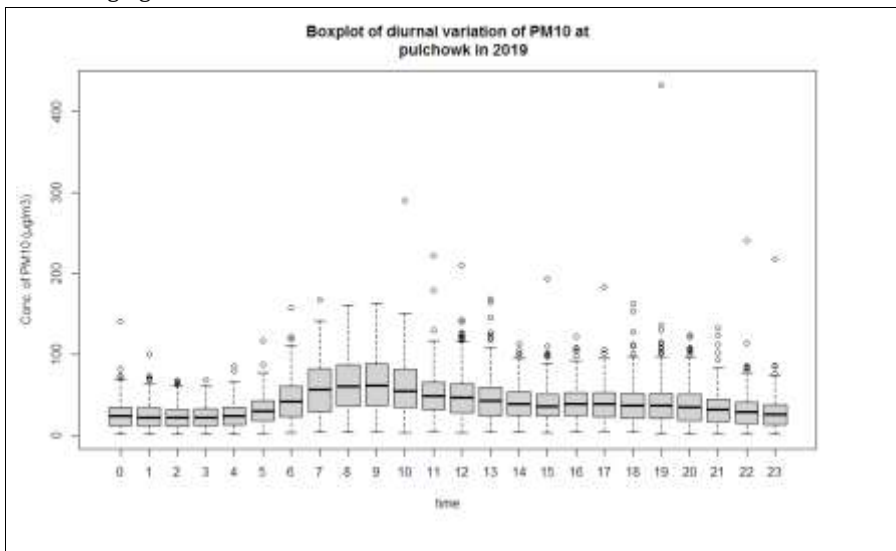


Figure 95. Diurnal variation of Pm10 at Pulchowk in 2019

The boxplot of diurnal variation shows PM10 concentration was highest at 8 and 9 O'clock and variation was also high at that time.

Compliance with National Ambient Air quality standard

Out of 353 days of measurement in 2019 all days were within the National ambient air quality standard for PM10.

Commented [D3]: Graph missing dai

2.4.5 Temporal Variation of TSP

Annual Average of TSP

Annual TSP average of Pulchowk Station for the year 2019 was observed to be $84.31\mu\text{g}/\text{m}^3$. Following figure shows the histogram of TSP at Pulchowk in 2019.

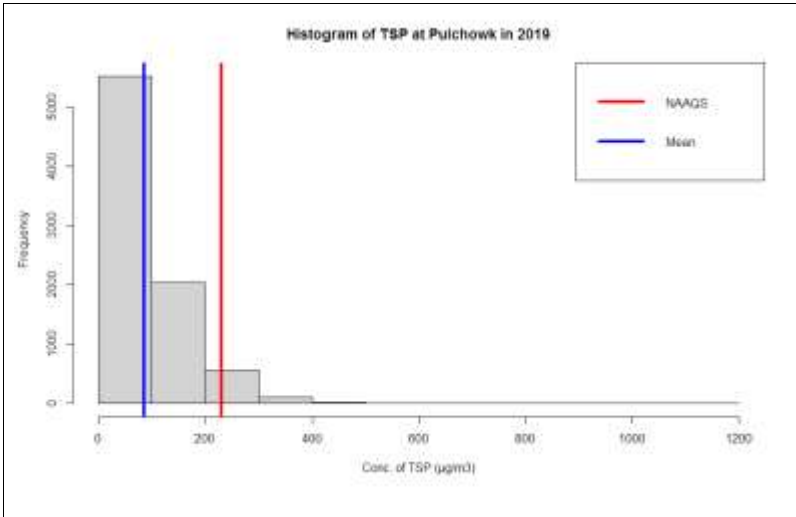


Figure 96. Histogram of TSP at Pulchowk station in 2019

Above figure shows highest no of hourly average of Total Suspended Particulate data were between $0-100\mu\text{g}/\text{m}^3$ followed by $100-200\mu\text{g}/\text{m}^3$.

Daily average Total suspended Particulate

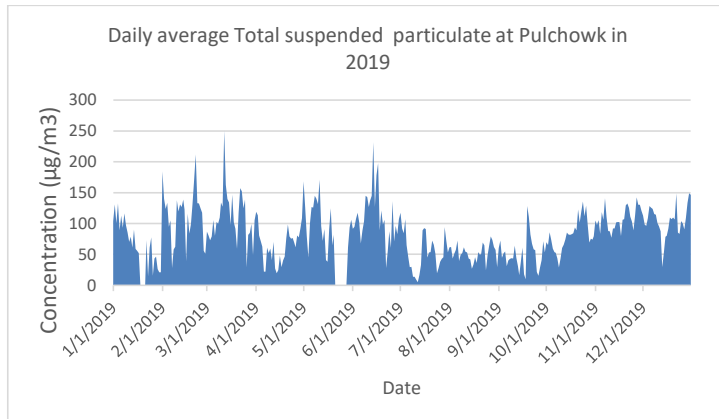


Figure 97. Daily average total suspended particulate at Pulchowk in 2019

Monthly Average of TSP

Following figure shows the monthly average of Total Suspended Particulate at Pulchowk in 2019.

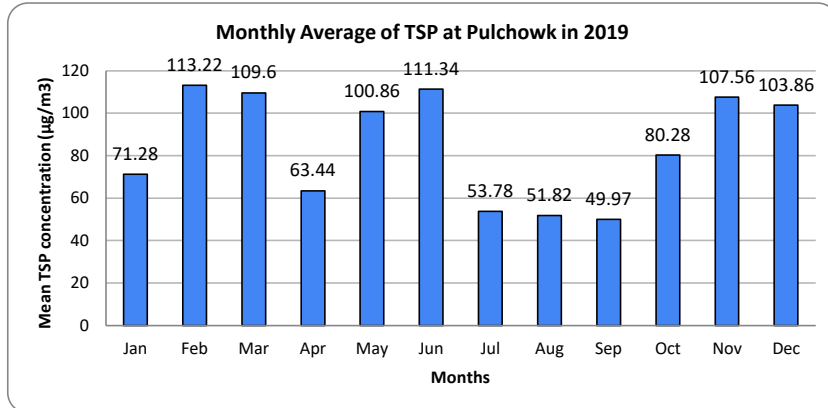


Figure 98. Monthly average of TSP at Pulchowk station in 2019

The monthly average value of TSP was highest in March with monthly average value of 113.22 µg/m³ and lowest in September with monthly average value of 49.97 µg/m³.

Monthly variation of TSP

Following figure shows Boxplot of monthly variation of TSP at Pulchowk in 2019

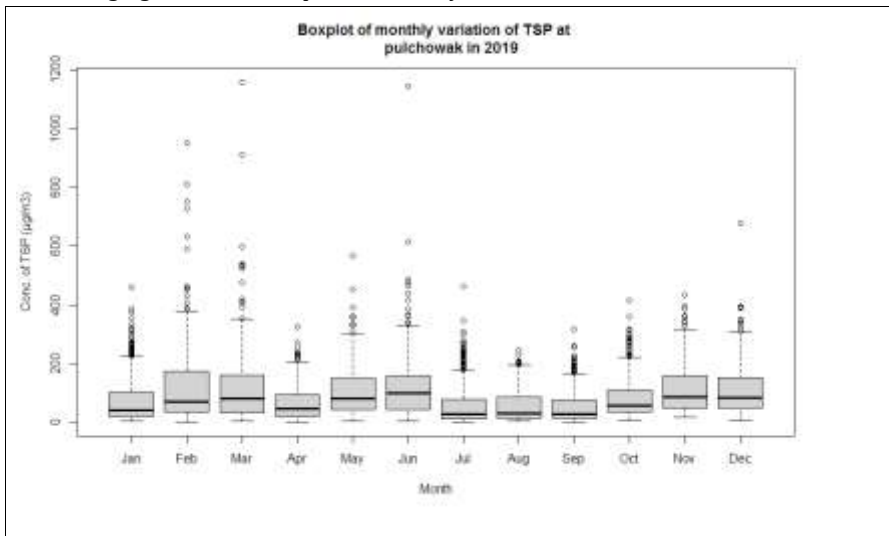


Figure 99. Monthly variation of daily average Total suspended particulate at Pulchowk in 2019

The above figure shows that highest level of variation was seen in February and March.

Seasonal Average of TSP

Following figure shows the seasonal variation of TSP at Pulchowk station in 2019

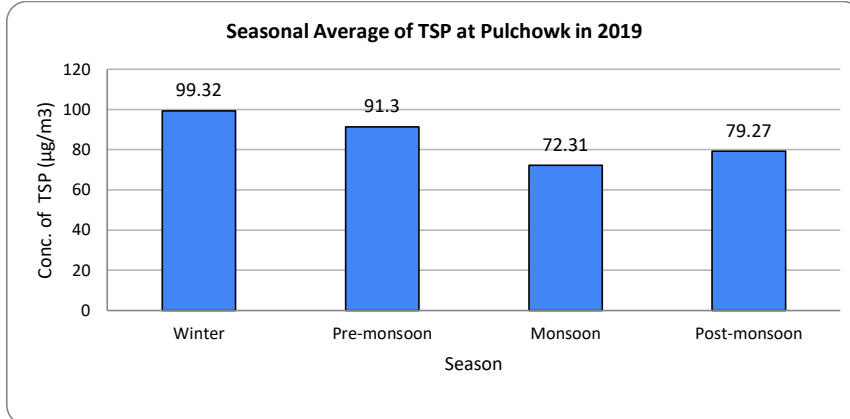


Figure 100. Seasonal average of TSP at Pulchowk station in 2019

Highest seasonal average was observed in Winter season with seasonal average of 99.32 µg/m³ and lowest seasonal average was observed in Monsoon season with seasonal average of 72.1 µg/m³.

Diurnal Variation of TSP

Following figure shows the boxplot of diurnal variation of TSP at Pulchowk in 2019.

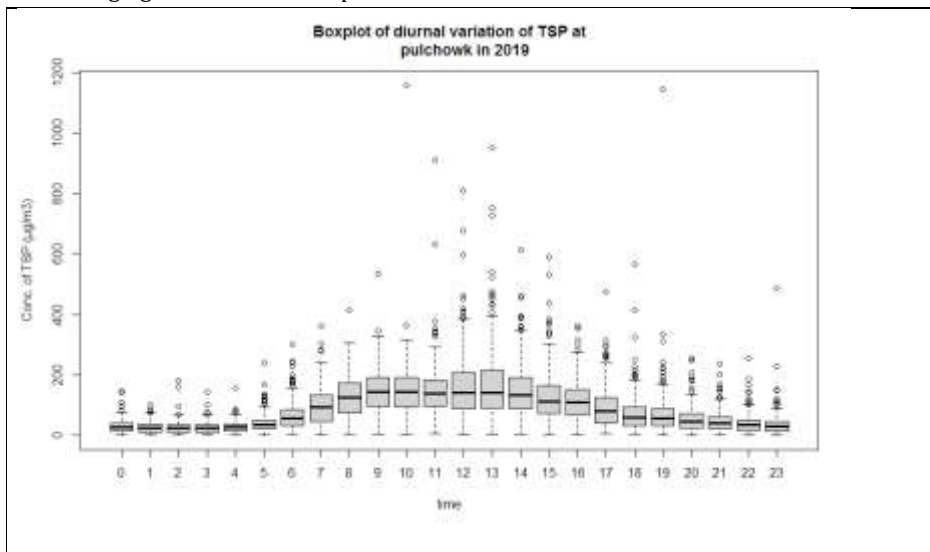


Figure 101. Diurnal variation of TSP at Pulchowk station in 2019

Above figure shows that Total suspend Particulate concentration was highest at 12 and 13 O'clock and variation was also high at that time.

Compliance with National Ambient air quality Standard

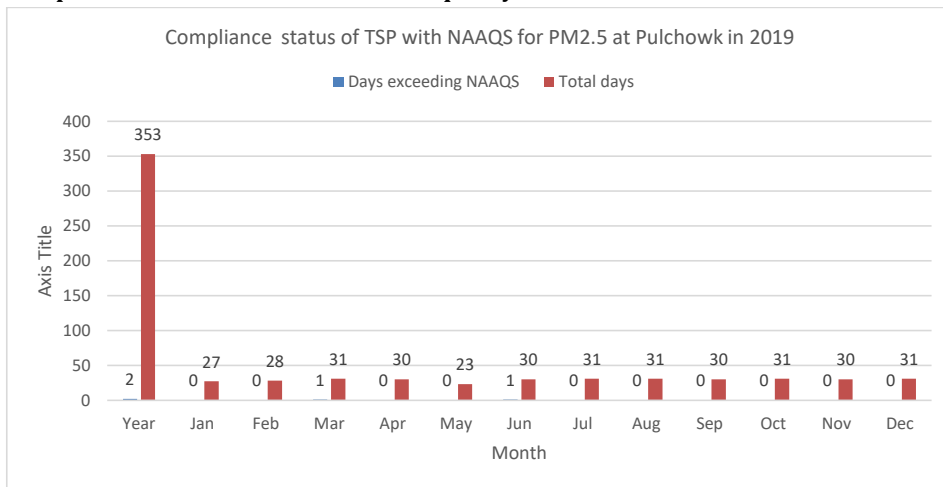


Figure 102. Compliance with NAAQS for TSP at Pulchowk in 2019

Out of 353 days of measurement only 2days exceed the National ambient air quality standards for the Total suspended particulate.

2.5 Air quality status, 2020

2.5.1 Temporal variation of PM1

Annual Average of PM1

Following figure shows the Histogram of PM1 at Pulchowk in 2020.

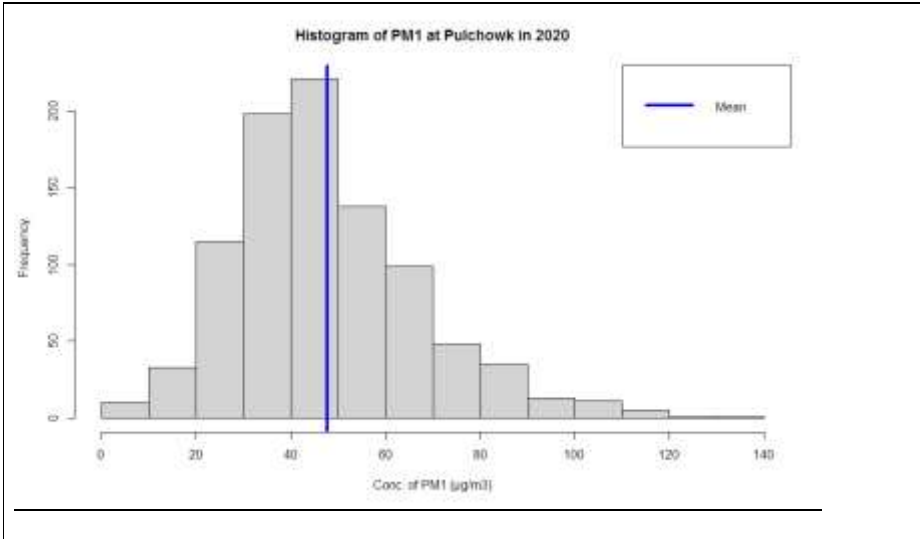


Figure 103. Histogram of PM1 at Pulchowk in 2020

The Histogram shows that highest no of hourly average data were between 50-10 $\mu\text{g}/\text{m}^3$ followed by 10-20 $\mu\text{g}/\text{m}^3$.

Daily average of PM1

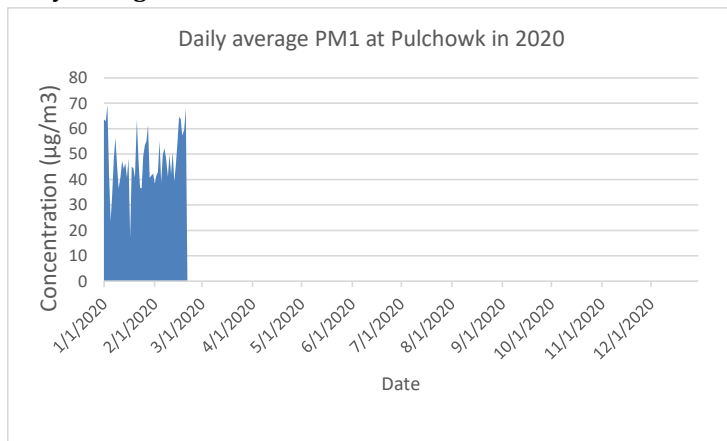


Figure 104. Daily average PM1 at Pulchowk station in 2020

Monthly Average of PM1

Following Figure shows the monthly average of PM₁.

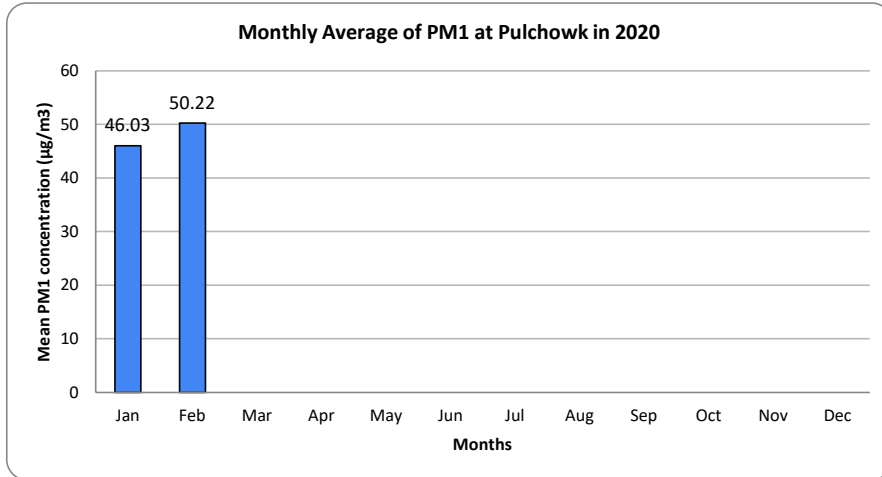


Figure 105. Monthly average PM1 at Pulchowk station in 2020

In 2020 only January and February have measurements.

Monthly Variation of PM1

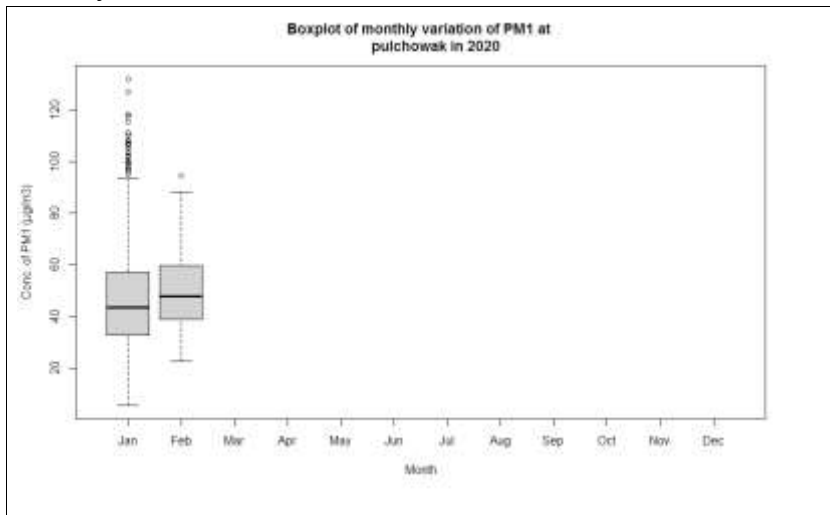


Figure 106. Monthly variation of daily average PM1 at Pulchowk station in 2020

Out of two months January and February with measurements January has more variations of hourly average of PM1.

Diurnal Variation of PM1

Following figure shows the boxplot of diurnal variation of PM1 at Pulchowk station in 2020.

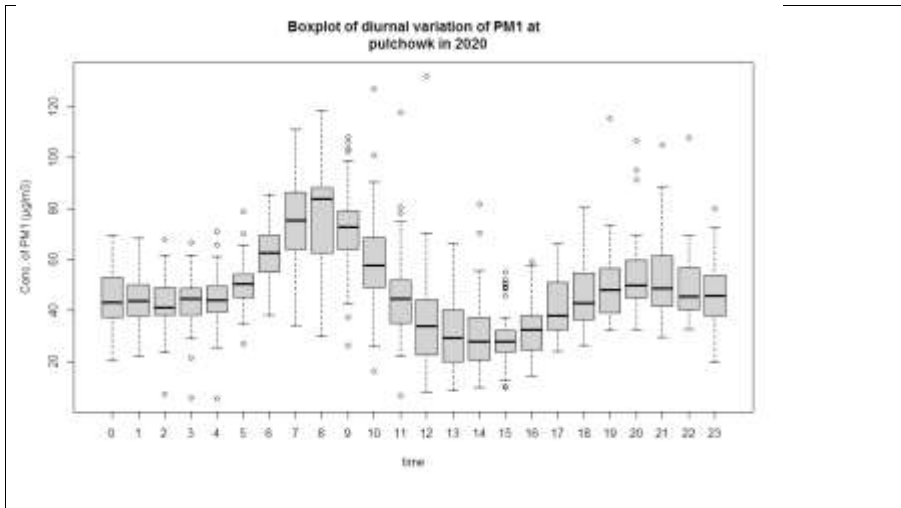


Figure 107. Boxplot of diurnal variation of PM1 at Pulchowk station in 2020

Pm1 concentration was more at 8 o'clock and it was more variable at that time.

2.5.2 Temporal variation of PM2.5

Annual Average of PM2.5

Following figure shows the Histogram of PM2.5 at Pulchowk station in 2020.

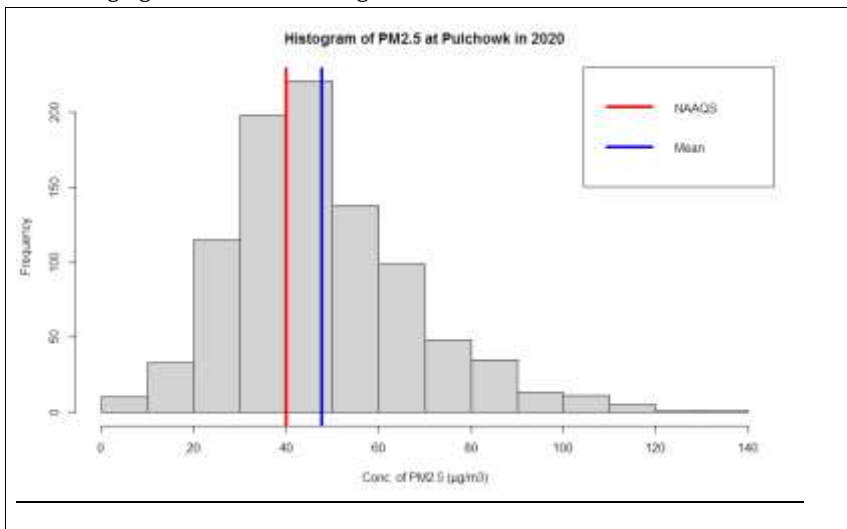


Figure 108. Histogram of PM2.5 at Pulchowk in 2020

The Histogram shows that highest no of hourly average data were between 40-50 $\mu\text{g}/\text{m}^3$ followed by 30-40 $\mu\text{g}/\text{m}^3$.

Daily Average of PM2.5

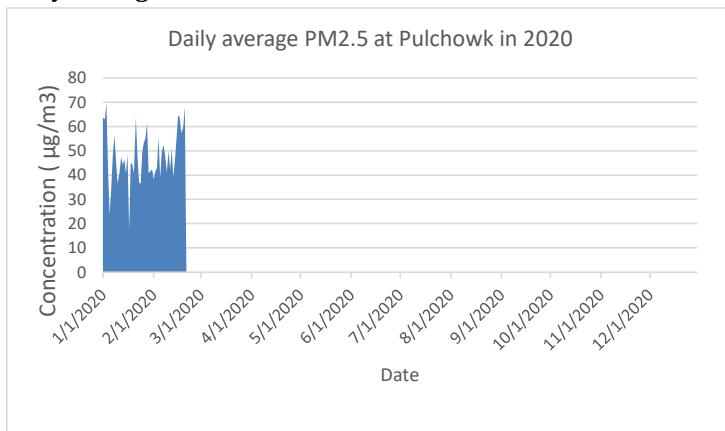


Figure 109. Daily average PM2.5 at Pulchowk station in 2020

Monthly Average of PM2.5

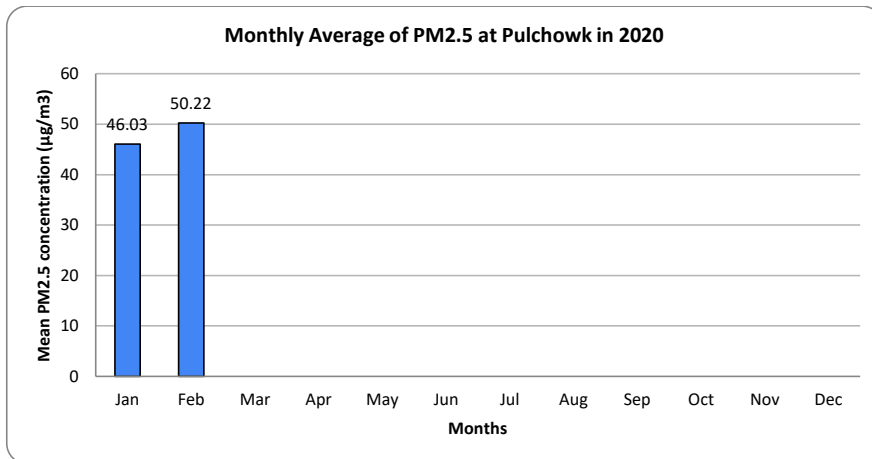


Figure 110. Monthly average of PM2.5 at Pulchowk station in 2020

In 2020 only January and February have measurements.

Monthly Variation of PM2.5

Following figure shows the boxplot of monthly variation of PM2.5 at Pulchowk in 2020.

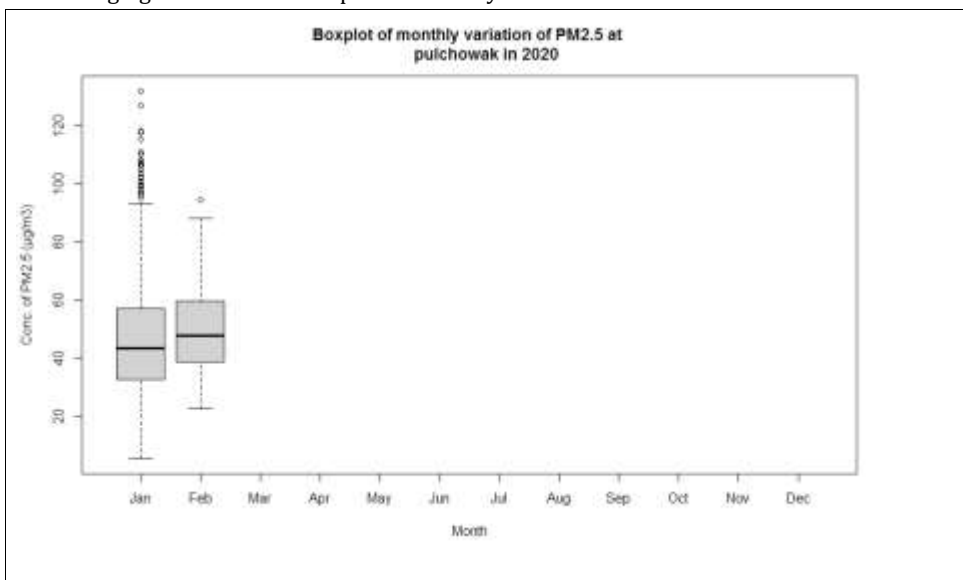


Figure 111. Monthly variation of daily average PM2.5 at Pulchowk in 2020

Out of two months January and February January has more variation on hourly average of PM2.5.

Diurnal Variation of PM2.5

Following figure shows the boxplot of diurnal variation of PM2.5 at Pulchowk

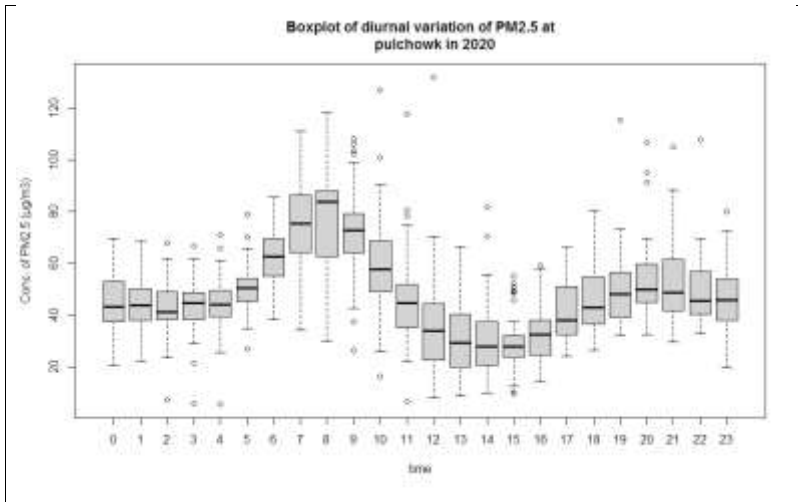


Figure 112. Boxplot of diurnal variation of PM2.5 at Pulchowk in 2020

PM2.5 concentrations was highest was at 8 o'clock and also more variable at that time.

Compliance with National Ambient air Quality standard

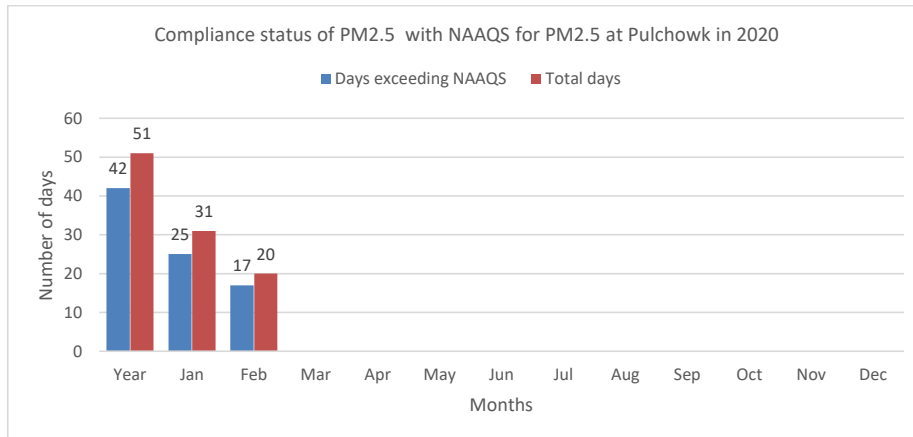


Figure 113. Compliance with National Ambient air quality standard for PM2.5 at Pulchowk station in 2020

Out of total 51 days of Measurement 42 days exceeded the National ambient air quality standard for PM2.5 at Pulchowk station in 2020.

2.5.3 Temporal variation of PM10

Annual Average of PM10

Following figure shows the Histogram of PM10 at Pulchowk station in 2020.

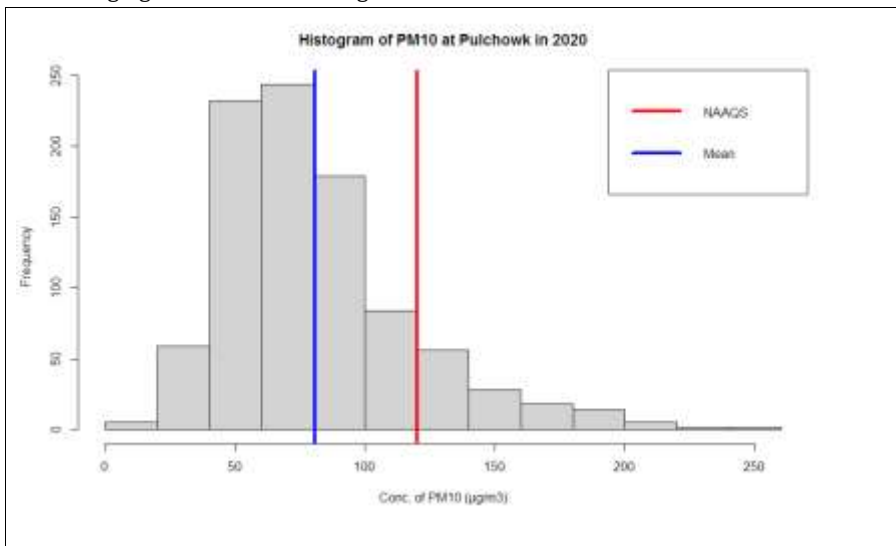


Figure 114. Histogram of PM10 at Pulchowk in 2020

Above figure shows that highest no of hourly average data were between 60-80 $\mu\text{g}/\text{m}^3$ followed by 40-60 $\mu\text{g}/\text{m}^3$.

Daily average of PM10

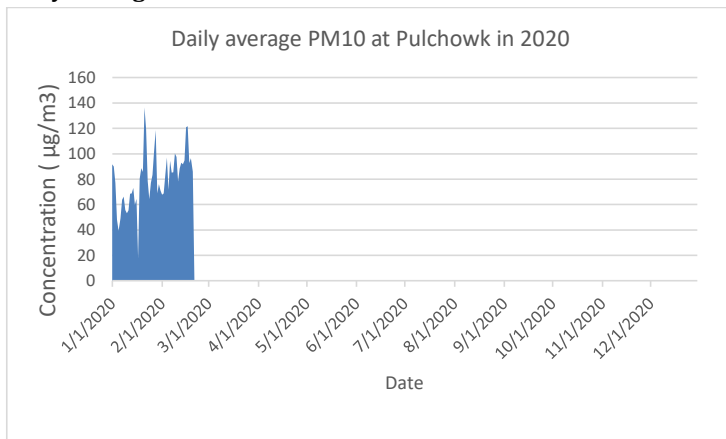


Figure 115. Daily average PM10 at Pulchowk station in 2020

Monthly Average of PM10

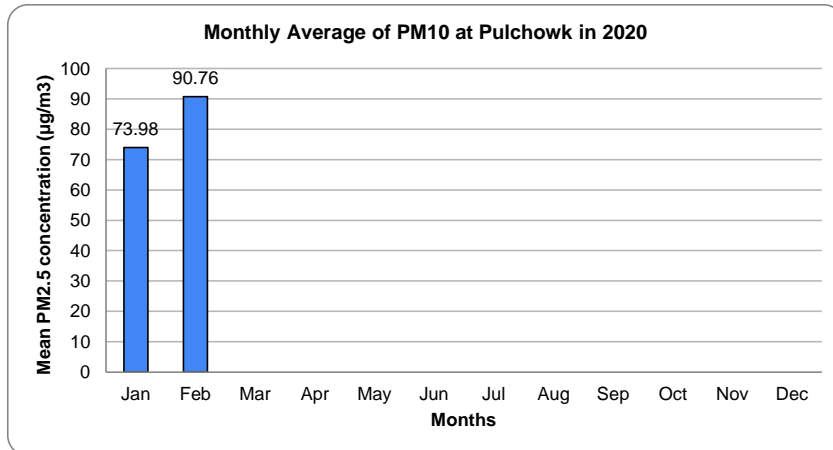


Figure 116. Monthly average PM10 at Pulchowk station in 2020

In 2020 only January and February has measurement.

Monthly Variation of PM10

Following figure shows the boxplot of monthly variation of PM10 at Pulchowk in 2020

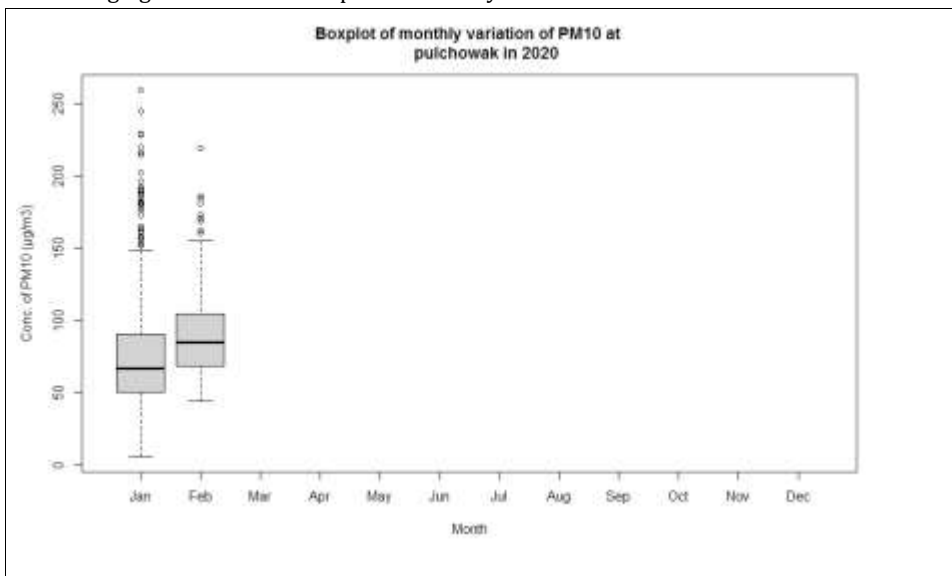


Figure 117. Boxplot of monthly variation of PM10 at Pulchowk in 2020

Out of two months of measurement January has higher variation of hourly average of PM10.

Diurnal Variation of PM10

Following figure shows the diurnal variation of PM10 at Pulchowk in 2020.

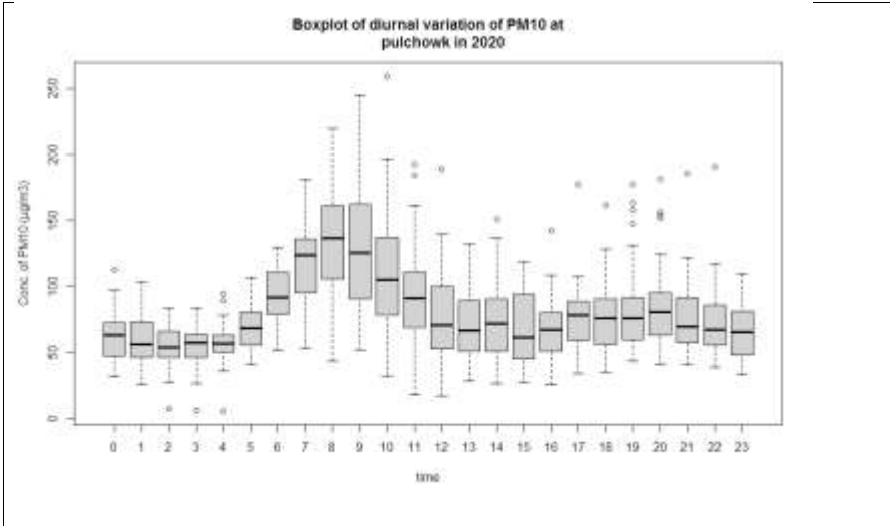


Figure 118. Diurnal variation of Pm10 at Pulchowk in 2020

The boxplot of diurnal variation shows PM10 concentration was highest at 8 and 9 O'clock and variation was high at 9 O'clock.

Compliance with National Ambient Air quality standard

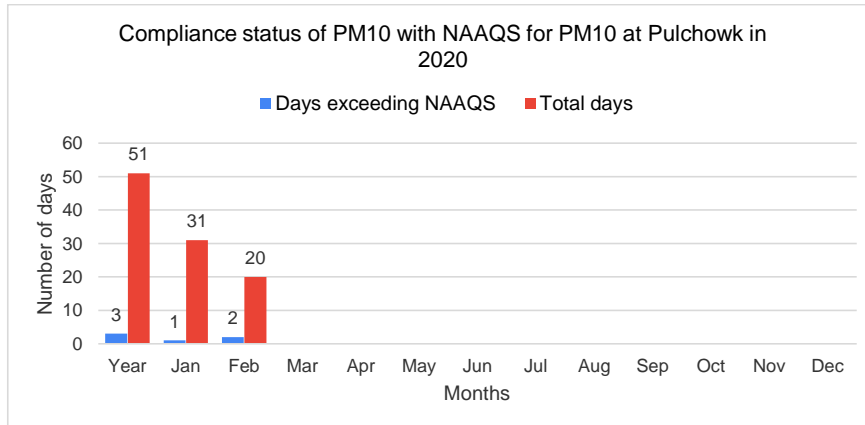


Figure 119. Compliance with NAAQS for PM10 at Pulchowk in 2020

Out of Total 51 days of measurement 3 days exceeded the national ambient air quality standard for PM10.

2.5.4 Temporal variation of TSP

Annual Average

Following figure shows the histogram of TSP at Pulchowk in 2020.

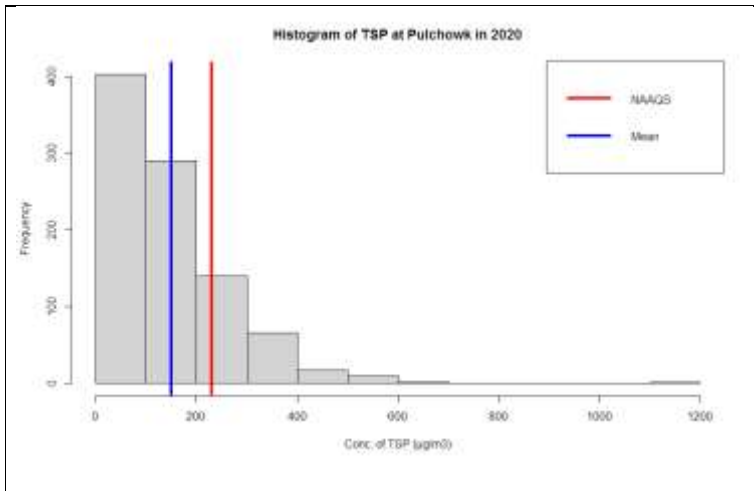


Figure 120. Histogram of TSP at Pulchowk station in 2020

Above figure shows highest no of hourly average of Total suspended Particulate data were between 0-100 $\mu\text{g}/\text{m}^3$ followed by 100-200 $\mu\text{g}/\text{m}^3$.

Daily average of TSP

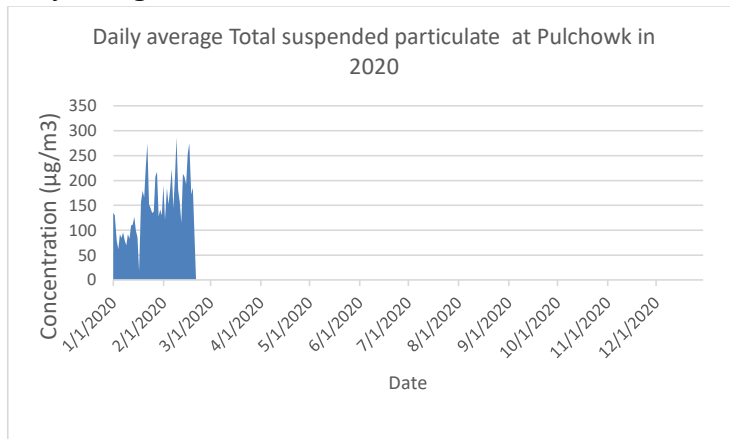


Figure 121. Daily average total suspended particulate at Pulchowk in 2020

Monthly Average of TSP

Following figure shows the monthly average of Total Suspended Particulate at Pulchowk in 2020.

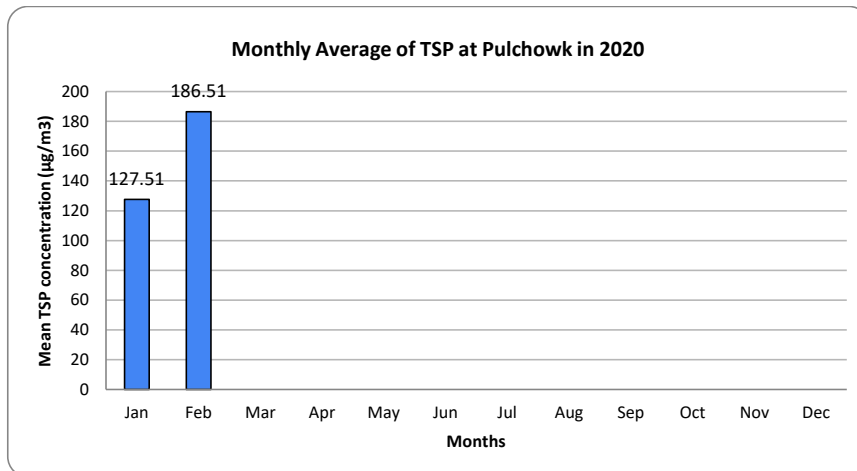


Figure 122. Monthly average of TSP at Pulchowk station in 2020

In 2020 only January and February have data.

Monthly variation of TSP

Following figure shows Boxplot of monthly variation of TSP at Pulchowk in 2020

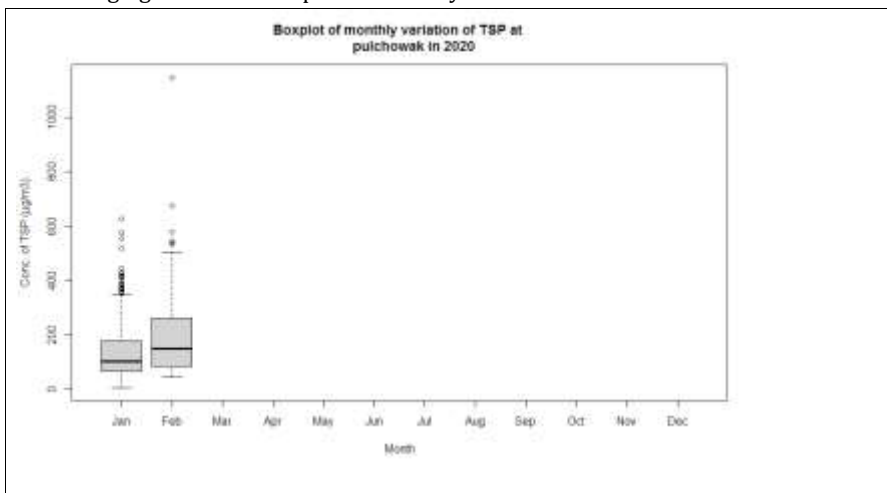


Figure 123. Monthly variation of daily average Total suspended particulate at Pulchowk in 2020

Out of two months of measurements in 2020 January and February, February was more variable in TSP in 2020.

Diurnal Variation of TSP

Following figure shows the boxplot of diurnal variation of TSP at Pulchowk in 2020.

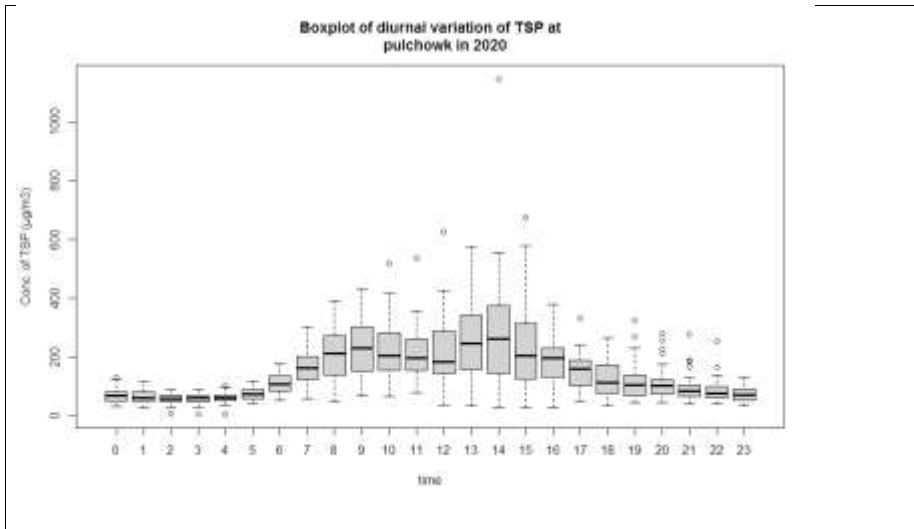


Figure 124. Diurnal variation of TSP at Pulchowk station in 2020

Above figure shows that Total suspended Particulate concentration was highest at 14 O'clock and variation was also high at that time.

Compliance with National Ambient air quality Standard

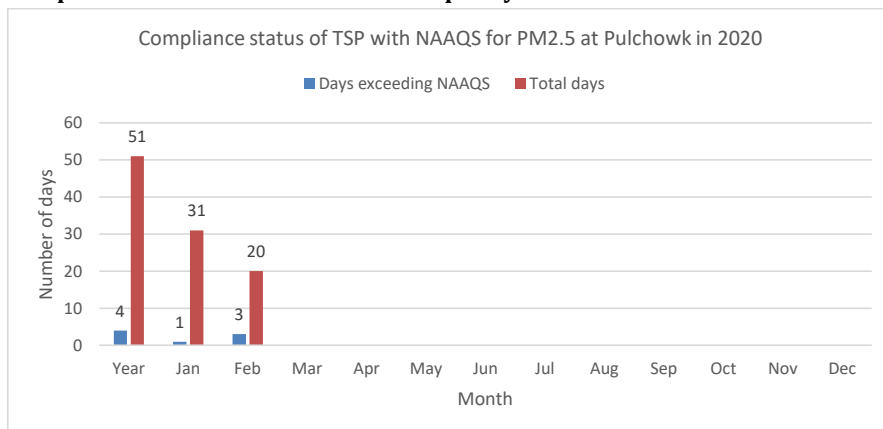


Figure 125. Compliance with NAAQS for TSP at Pulchowk in 2020

Out of 51 days of measurement only 4 days exceed the National ambient air quality standards for the Total suspended particulate.

Annex
PM1

| Date | Value ($\mu\text{g}/\text{m}^3$) | Date | Value ($\mu\text{g}/\text{m}^3$) | Date | Value ($\mu\text{g}/\text{m}^3$) | Date | Value ($\mu\text{g}/\text{m}^3$) | Date | Value ($\mu\text{g}/\text{m}^3$) |
|-----------|---------------------------------------|-----------|---------------------------------------|-----------|---------------------------------------|-----------|---------------------------------------|-----------|---------------------------------------|
| 1/1/2016 | | 1/1/2017 | 81.37299 | 1/1/2018 | 25.24486 | 1/1/2019 | 37.07958 | 1/1/2020 | 63.70255 |
| 1/2/2016 | | 1/2/2017 | 59.40854 | 1/2/2018 | 20.1934 | 1/2/2019 | 38.14833 | 1/2/2020 | 62.90422 |
| 1/3/2016 | | 1/3/2017 | 43.81297 | 1/3/2018 | 24.16597 | 1/3/2019 | 33.88322 | 1/3/2020 | 69.49594 |
| 1/4/2016 | | 1/4/2017 | 67.60394 | 1/4/2018 | 25.70271 | 1/4/2019 | 29.56875 | 1/4/2020 | 42.12084 |
| 1/5/2016 | | 1/5/2017 | 62.17979 | 1/5/2018 | 25.87861 | 1/5/2019 | 34.66243 | 1/5/2020 | 23.64729 |
| 1/6/2016 | | 1/6/2017 | 50.79147 | 1/6/2018 | 24.46542 | 1/6/2019 | 35.27146 | 1/6/2020 | 34.27479 |
| 1/7/2016 | | 1/7/2017 | 57.2065 | 1/7/2018 | 23.8516 | 1/7/2019 | 27.66903 | 1/7/2020 | 48.16285 |
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| 6 | | | | 8 | | 9 | 1 | | |
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| 12/5/2016 | 49.79406 | 12/6/2017 | 16.50486 | 12/6/2018 | | 12/6/2019 | 40.95889 | 12/5/2020 | |
| 12/6/2016 | 50.95 | 12/7/2017 | 16.11382 | 12/7/2018 | | 12/7/2019 | 34.63257 | 12/6/2020 | |
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| 12/16/2016 | 58.59257 | 12/17/2017 | 30.12173 | 12/17/2018 | 96.73867 | 12/17/2019 | 32.00311 | 12/16/2020 | |
| 12/17/2016 | 55.29698 | 12/18/2017 | 28.64813 | 12/18/2018 | 50.49033 | 12/18/2019 | 29.75382 | 12/17/2020 | |
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| 12/19/2016 | 54.15946 | 12/20/2017 | 27.97 | 12/20/2018 | 63.0028 | 12/20/2019 | 36.1804 | 12/19/2020 | |
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| 12/23/2016 | 45.19627 | 12/24/2017 | 22.68069 | 12/24/2018 | 41.32868 | 12/24/2019 | 31.52958 | 12/23/2020 | |
| 12/24/2016 | 42.87219 | 12/25/2017 | 27.45097 | 12/25/2018 | 37.99208 | 12/25/2019 | 37.76729 | 12/24/2020 | |
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|------------|----------|------------|----------|------------|----------|------------|----------|------------|--|
| 6 | 6 | | 4 | 8 | 1 | 9 | 5 | | |
| 12/26/2016 | 59.1854 | 12/27/2017 | 25.46326 | 12/27/2018 | 38.12246 | 12/27/2019 | 35.255 | 12/26/2020 | |
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| 12/31/2016 | | | | | | | | 12/31/2016 | |

PM2.5

| Date | Value (µg/m³) | Date | Value (µg/m³) | Date | Value (µg/m³) | Date | Value (µg/m³) | Date | Value (µg/m³) |
|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|
| 1/1/2016 | | 1/1/2017 | 89.7905 | 1/1/2018 | 26.3225 | 1/1/2019 | 39.25021 | 1/1/2020 | 63.70255 |
| 1/2/2016 | | 1/2/2017 | 64.81965 | 1/2/2018 | 21.18181 | 1/2/2019 | 40.93181 | 1/2/2020 | 62.90422 |
| 1/3/2016 | | 1/3/2017 | 50.01502 | 1/3/2018 | 25.42157 | 1/3/2019 | 35.95216 | 1/3/2020 | 69.49594 |
| 1/4/2016 | | 1/4/2017 | 75.59941 | 1/4/2018 | 26.74896 | 1/4/2019 | 32.02818 | 1/4/2020 | 42.12084 |
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| 1/7/2016 | | 1/7/2017 | 63.11735 | 1/7/2018 | 24.95972 | 1/7/2019 | 29.93729 | 1/7/2020 | 48.16285 |
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| 1/14/2016 | | 1/14/2017 | 78.9436 | 1/14/2018 | 29.58563 | 1/14/2019 | 19.67407 | 1/14/2020 | 46.47888 |
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| 1/16/2016 | | 1/16/2017 | 83.37355 | 1/16/2018 | 30.33256 | 1/16/2019 | 19.16382 | 1/16/2020 | 48.385 |
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| 1/18/2016 | | 1/18/2017 | 82.01491 | 1/18/2018 | 27.60725 | 1/18/2019 | | 1/18/2020 | 45.02846 |
| 1/19/2016 | | 1/19/2017 | 71.88492 | 1/19/2018 | 29.09375 | 1/19/2019 | | 1/19/2020 | 44.36896 |
| 1/20/2016 | | 1/20/2017 | 79.95049 | 1/20/2018 | 29.70271 | 1/20/2019 | | 1/20/2020 | 40.67035 |
| 1/21/2016 | | 1/21/2017 | 80.25559 | 1/21/2018 | 23.12787 | 1/21/2019 | | 1/21/2020 | 63.57618 |
| 1/22/2016 | | 1/22/2017 | 75.75203 | 1/22/2018 | 28.80687 | 1/22/2019 | 25.37041 | 1/22/2020 | 47.84879 |

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| 1/23/2016 | | 1/23/2017 | 76.3196 | 1/23/2018 | 28.0712 3 | 1/23/2019 | 13.3736 8 | 1/23/2020 | 36.8048 8 |
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| 12/31/2016 | | | | | | | | | |

PM10

| Date | Value (µg/m ³) | Date | Value (µg/m ³) | Date | Value (µg/m ³) | Date | Value (µg/m ³) | Date | Value (µg/m ³) |
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| 12/12/2016 | 64.92486 | 12/13/2017 | 21.87236 | 12/13/2018 | | 12/13/2019 | 28.85221 | 12/12/2020 | |
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| 12/15/2016 | 68.43416 | 12/16/2017 | 29.07958 | 12/16/2018 | | 12/16/2019 | 45.0652 | 12/15/2020 | |
| 12/16/2016 | 78.58979 | 12/17/2017 | 32.69528 | 12/17/2018 | 114.6916 | 12/17/2019 | 51.90796 | 12/16/2020 | |
| 12/17/2016 | 74.08527 | 12/18/2017 | 30.62889 | 12/18/2018 | 63.65917 | 12/18/2019 | 53.66764 | 12/17/2020 | |
| 12/18/2016 | 66.47125 | 12/19/2017 | 27.9916 | 12/19/2018 | 77.63218 | 12/19/2019 | 57.93792 | 12/18/2020 | |
| 12/19/2016 | 72.45549 | 12/20/2017 | 30.39361 | 12/20/2018 | 72.59851 | 12/20/2019 | 62.18354 | 12/19/2020 | |
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| 12/21/2016 | 63.25417 | 12/22/2017 | 24.91736 | 12/22/2018 | 57.67076 | 12/22/2019 | 66.16785 | 12/21/2020 | |
| 12/22/2016 | 69.34669 | 12/23/2017 | 27.76479 | 12/23/2018 | 55.54201 | 12/23/2019 | 50.28118 | 12/22/2020 | |
| 12/23/2016 | 61.28609 | 12/24/2017 | 24.15292 | 12/24/2018 | 52.98257 | 12/24/2019 | 49.2641 | 12/23/2020 | |
| 12/24/2016 | 58.12095 | 12/25/2017 | 29.08549 | 12/25/2018 | 50.48492 | 12/25/2019 | 59.62493 | 12/24/2020 | |
| 12/25/2016 | 74.6686 | 12/26/2017 | 29.34375 | 12/26/2018 | 67.11607 | 12/26/2019 | 56.05847 | 12/25/2020 | |
| 12/26/2016 | 77.45786 | 12/27/2017 | 27.93229 | 12/27/2018 | 57.69781 | 12/27/2019 | 51.37569 | 12/26/2020 | |
| 12/27/2016 | 84.12644 | 12/28/2017 | 26.80088 | 12/28/2018 | 50.19612 | 12/28/2019 | 68.66679 | 12/27/2020 | |
| 12/28/2016 | 88.37555 | 12/29/2017 | 28.24438 | 12/29/2018 | 50.2791 | 12/29/2019 | 79.79917 | 12/28/2020 | |
| 12/29/2016 | 97.67335 | 12/30/2017 | 30.63417 | 12/30/2018 | 61.56012 | 12/30/2019 | 91.35194 | 12/29/2020 | |
| 12/30/2016 | 80.20234 | 12/31/2017 | 28.86729 | 12/31/2018 | 63.97961 | 12/31/2019 | 88.27944 | 12/30/2020 | |
| 12/31/2016 | | | | | | | | | |

TSP

| Date | Value (µg/m³) | Date | Value (µg/m³) | Date | Value (µg/m³) | Date | Value (µg/m³) | Date |
|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
| 1/1/2016 | | 1/1/2017 | 114.9446 | 1/1/2018 | 29.52704 | 1/1/2019 | 104.0982 | 1/1/2020 |
| 1/2/2016 | | 1/2/2017 | 95.28472 | 1/2/2018 | 23.74326 | 1/2/2019 | 130.8952 | 1/2/2020 |
| 1/3/2016 | | 1/3/2017 | 73.29837 | 1/3/2018 | 29.03618 | 1/3/2019 | 100.5269 | 1/3/2020 |
| 1/4/2016 | | 1/4/2017 | 114.1203 | 1/4/2018 | 30.22049 | 1/4/2019 | 132.2017 | 1/4/2020 |
| 1/5/2016 | | 1/5/2017 | 107.1926 | 1/5/2018 | 30.09083 | 1/5/2019 | 89.08254 | 1/5/2020 |
| 1/6/2016 | | 1/6/2017 | 87.86438 | 1/6/2018 | 27.58444 | 1/6/2019 | 112.8153 | 1/6/2020 |
| 1/7/2016 | | 1/7/2017 | 94.47202 | 1/7/2018 | 27.535 | 1/7/2019 | 93.13624 | 1/7/2020 |
| 1/8/2016 | | 1/8/2017 | 103.6941 | 1/8/2018 | 30.26722 | 1/8/2019 | 116.3304 | 1/8/2020 |
| 1/9/2016 | | 1/9/2017 | 120.4923 | 1/9/2018 | 39.57212 | 1/9/2019 | 96.92924 | 1/9/2020 |
| 1/10/2016 | | 1/10/2017 | 95.90947 | 1/10/2018 | 42.31192 | 1/10/2019 | 85.11806 | 1/10/2020 |
| 1/11/2016 | | 1/11/2017 | 150.5835 | 1/11/2018 | 39.43775 | 1/11/2019 | 70.10285 | 1/11/2020 |
| 1/12/2016 | | 1/12/2017 | | 1/12/2018 | 37.77956 | 1/12/2019 | 78.30397 | 1/12/2020 |

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| 1/13/2016 | | 1/13/2017 | 71.64729 | 1/13/2018 | 31.60739 | 1/13/2019 | 61.08368 | 1/13/2020 |
| 1/14/2016 | | 1/14/2017 | 94.33756 | 1/14/2018 | 31.23986 | 1/14/2019 | 89.8722 | 1/14/2020 |
| 1/15/2016 | | 1/15/2017 | 108.0821 | 1/15/2018 | 27.96428 | 1/15/2019 | 58.79035 | 1/15/2020 |
| 1/16/2016 | | 1/16/2017 | 118.9096 | 1/16/2018 | 33.76587 | 1/16/2019 | 55.64245 | 1/16/2020 |
| 1/17/2016 | | 1/17/2017 | 92.57367 | 1/17/2018 | 29.45297 | 1/17/2019 | 52.21779 | 1/17/2020 |
| 1/18/2016 | | 1/18/2017 | 113.7819 | 1/18/2018 | 28.46031 | 1/18/2019 | | 1/18/2020 |
| 1/19/2016 | | 1/19/2017 | 107.217 | 1/19/2018 | 30.26208 | 1/19/2019 | | 1/19/2020 |
| 1/20/2016 | | 1/20/2017 | 127.5225 | 1/20/2018 | 30.75833 | 1/20/2019 | | 1/20/2020 |
| 1/21/2016 | | 1/21/2017 | 127.1119 | 1/21/2018 | 24.15229 | 1/21/2019 | | 1/21/2020 |
| 1/22/2016 | | 1/22/2017 | 107.7529 | 1/22/2018 | 29.86046 | 1/22/2019 | 72.78863 | 1/22/2020 |
| 1/23/2016 | | 1/23/2017 | 102.2065 | 1/23/2018 | 29.22524 | 1/23/2019 | 13.98493 | 1/23/2020 |
| 1/24/2016 | | 1/24/2017 | 111.5255 | 1/24/2018 | 24.75648 | 1/24/2019 | 60.71396 | 1/24/2020 |
| 1/25/2016 | | 1/25/2017 | 108.2987 | 1/25/2018 | 27.54833 | 1/25/2019 | 77.27931 | 1/25/2020 |
| 1/26/2016 | | 1/26/2017 | 106.5206 | 1/26/2018 | 28.47431 | 1/26/2019 | 15.03201 | 1/26/2020 |
| 1/27/2016 | | 1/27/2017 | 72.70819 | 1/27/2018 | 27.47095 | 1/27/2019 | 43.4134 | 1/27/2020 |
| 1/28/2016 | | 1/28/2017 | 45.27208 | 1/28/2018 | 29.56541 | 1/28/2019 | 46.4019 | 1/28/2020 |
| 1/29/2016 | | 1/29/2017 | 71.0246 | 1/29/2018 | 33.2802 | 1/29/2019 | 26.1409 | 1/29/2020 |
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| 2/2/2016 | | 2/2/2017 | 80.59747 | 2/2/2018 | 269.986 | 2/2/2019 | 140.4744 | 2/2/2020 |
| 2/3/2016 | | 2/3/2017 | 84.17733 | 2/3/2018 | 261.8209 | 2/3/2019 | 123.782 | 2/3/2020 |
| 2/4/2016 | | 2/4/2017 | 93.06898 | 2/4/2018 | 414.0658 | 2/4/2019 | 133.6434 | 2/4/2020 |
| 2/5/2016 | | 2/5/2017 | 93.97458 | 2/5/2018 | 334.333 | 2/5/2019 | 94.53042 | 2/5/2020 |
| 2/6/2016 | | 2/6/2017 | 89.10717 | 2/6/2018 | 378.977 | 2/6/2019 | 105.0788 | 2/6/2020 |
| 2/7/2016 | | 2/7/2017 | 76.24162 | 2/7/2018 | 440.8792 | 2/7/2019 | 27.55417 | 2/7/2020 |
| 2/8/2016 | | 2/8/2017 | 92.55791 | 2/8/2018 | 439.3085 | 2/8/2019 | 57.62097 | 2/8/2020 |
| 2/9/2016 | | 2/9/2017 | 92.83121 | 2/9/2018 | 367.3246 | 2/9/2019 | 62.38896 | 2/9/2020 |
| 2/10/2016 | | 2/10/2017 | 86.22712 | 2/10/2018 | 327.1898 | 2/10/2019 | 137.4849 | 2/10/2020 |
| 2/11/2016 | | 2/11/2017 | 92.15118 | 2/11/2018 | 441.6128 | 2/11/2019 | 119.5069 | 2/11/2020 |
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| 2/15/2016 | | 2/15/2017 | 104.8569 | 2/15/2018 | 249.5968 | 2/15/2019 | 122.5383 | 2/15/2020 |
| 2/16/2016 | | 2/16/2017 | 105.8429 | 2/16/2018 | 239.276 | 2/16/2019 | 38.78188 | 2/16/2020 |
| 2/17/2016 | | 2/17/2017 | 114.3614 | 2/17/2018 | 300.217 | 2/17/2019 | 115.9372 | 2/17/2020 |
| 2/18/2016 | | 2/18/2017 | 97.48763 | 2/18/2018 | 276.7039 | 2/18/2019 | 83.65542 | 2/18/2020 |
| 2/19/2016 | | 2/19/2017 | 93.65503 | 2/19/2018 | 269.9875 | 2/19/2019 | 98.5584 | 2/19/2020 |
| 2/20/2016 | | 2/20/2017 | 102.2229 | 2/20/2018 | 291.9449 | 2/20/2019 | 131.7565 | 2/20/2020 |
| 2/21/2016 | | 2/21/2017 | 97.06924 | 2/21/2018 | 272.8617 | 2/21/2019 | 170.6235 | 2/21/2020 |
| 2/22/2016 | | 2/22/2017 | 112.7427 | 2/22/2018 | 424.0242 | 2/22/2019 | 211.9679 | 2/22/2020 |

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| 2/23/2016 | | 2/23/2017 | 99.41938 | 2/23/2018 | 252.0783 | 2/23/2019 | 132.8248 | 2/23/2020 |
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| 2/25/2016 | | 2/25/2017 | 90.42604 | 2/25/2018 | 494.0267 | 2/25/2019 | 124.5345 | 2/25/2020 |
| 2/26/2016 | | 2/26/2017 | 92.66055 | 2/26/2018 | 285.2674 | 2/26/2019 | 117.2021 | 2/26/2020 |
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| 2/28/2016 | | 2/28/2017 | 109.4246 | 2/28/2018 | 266.2748 | 2/28/2019 | 51.2041 | 2/28/2020 |
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| 3/1/2016 | | 3/2/2017 | 122.5 | 3/2/2018 | 318.7639 | 3/2/2019 | 80.35035 | 3/1/2020 |
| 3/2/2016 | | 3/3/2017 | 73.4384 | 3/3/2018 | 244.0831 | 3/3/2019 | 72.70486 | 3/2/2020 |
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| 3/4/2016 | | 3/5/2017 | 83.41694 | 3/5/2018 | 432.7337 | 3/5/2019 | 105.3599 | 3/4/2020 |
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| 3/6/2016 | | 3/7/2017 | 116.8412 | 3/7/2018 | 441.2449 | 3/7/2019 | 102.5916 | 3/6/2020 |
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| 3/9/2016 | | 3/10/2017 | 67.44753 | 3/10/2018 | 324.5419 | 3/10/2019 | 134.1962 | 3/9/2020 |
| 3/10/2016 | | 3/11/2017 | 21.08222 | 3/11/2018 | 307.9976 | 3/11/2019 | 127.29 | 3/10/2020 |
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| 3/13/2016 | | 3/14/2017 | 65.33063 | 3/14/2018 | 331.2248 | 3/14/2019 | 139.6693 | 3/13/2020 |
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| 3/17/2016 | | 3/18/2017 | 67.66847 | 3/18/2018 | 363.9451 | 3/18/2019 | 101.8899 | 3/17/2020 |
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| 3/19/2016 | | 3/20/2017 | 69.47174 | 3/20/2018 | 402.3429 | 3/20/2019 | 58.60444 | 3/19/2020 |
| 3/20/2016 | | 3/21/2017 | 88.10986 | 3/21/2018 | 398.1096 | 3/21/2019 | 117.551 | 3/20/2020 |
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| 4/3/2016 | | 4/4/2017 | 65.12063 | 4/4/2018 | 74.80405 | 4/4/2019 | 71.95236 | 4/3/2020 |

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| 4/6/2016 | | 4/7/2017 | 75.77905 | 4/7/2018 | 151.7094 | 4/7/2019 | 22.20833 | 4/6/2020 |
| 4/7/2016 | | 4/8/2017 | 44.37181 | 4/8/2018 | 248.3816 | 4/8/2019 | 60.7641 | 4/7/2020 |
| 4/8/2016 | | 4/9/2017 | 69.8703 | 4/9/2018 | 194.0038 | 4/9/2019 | 52.04985 | 4/8/2020 |
| 4/9/2016 | | 4/10/2017 | 98.56176 | 4/10/2018 | 208.5744 | 4/10/2019 | 59.49633 | 4/9/2020 |
| 4/10/2016 | | 4/11/2017 | 126.6615 | 4/11/2018 | 196.5744 | 4/11/2019 | 40.76338 | 4/10/2020 |
| 4/11/2016 | | 4/12/2017 | 152.7109 | 4/12/2018 | 259.9621 | 4/12/2019 | 70.23505 | 4/11/2020 |
| 4/12/2016 | | 4/13/2017 | 144.6447 | 4/13/2018 | 368.2508 | 4/13/2019 | 27.12507 | 4/12/2020 |
| 4/13/2016 | | 4/14/2017 | 100.6654 | 4/14/2018 | 268.715 | 4/14/2019 | 19.62333 | 4/13/2020 |
| 4/14/2016 | | 4/15/2017 | 45.19868 | 4/15/2018 | 289.6161 | 4/15/2019 | 24.3925 | 4/14/2020 |
| 4/15/2016 | | 4/16/2017 | 54.9075 | 4/16/2018 | 334.6662 | 4/16/2019 | 47.84597 | 4/15/2020 |
| 4/16/2016 | | 4/17/2017 | 45.87079 | 4/17/2018 | 166.8871 | 4/17/2019 | 29.08579 | 4/16/2020 |
| 4/17/2016 | | 4/18/2017 | 51.88278 | 4/18/2018 | 263.1195 | 4/18/2019 | 40.34639 | 4/17/2020 |
| 4/18/2016 | | 4/19/2017 | 57.66735 | 4/19/2018 | 227.7875 | 4/19/2019 | 46.14014 | 4/18/2020 |
| 4/19/2016 | | 4/20/2017 | 55.1075 | 4/20/2018 | 286.6061 | 4/20/2019 | 76.18764 | 4/19/2020 |
| 4/20/2016 | | 4/21/2017 | 39.05561 | 4/21/2018 | 335.8828 | 4/21/2019 | 98.03854 | 4/20/2020 |
| 4/21/2016 | | 4/22/2017 | 35.60868 | 4/22/2018 | 317.4504 | 4/22/2019 | 78.96412 | 4/21/2020 |
| 4/22/2016 | | 4/23/2017 | 28.50819 | 4/23/2018 | 438.089 | 4/23/2019 | 75.2816 | 4/22/2020 |
| 4/23/2016 | | 4/24/2017 | 43.7879 | 4/24/2018 | 387.4628 | 4/24/2019 | 76.28287 | 4/23/2020 |
| 4/24/2016 | | 4/25/2017 | 63.11021 | 4/25/2018 | 376.4118 | 4/25/2019 | 68.77951 | 4/24/2020 |
| 4/25/2016 | | 4/26/2017 | 82.70135 | 4/26/2018 | 282.4793 | 4/26/2019 | 61.45424 | 4/25/2020 |
| 4/26/2016 | | 4/27/2017 | 80.97089 | 4/27/2018 | 172.3733 | 4/27/2019 | 80.62695 | 4/26/2020 |
| 4/27/2016 | | 4/28/2017 | 95.01712 | 4/28/2018 | 118.3351 | 4/28/2019 | 77.40035 | 4/27/2020 |
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