



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

# Air quality status of Nepal

## 2016-2020

Volume XIX

Surkhet air quality monitoring station



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## 1. Surkhet Air Quality Monitoring Station

- Address: Office premise of Karnali Province Police Head Office.
- Location: 28.678541 latitude, 81.472938 longitude
- Surrounding of the station
  - East: Karnali Province Police Head Office building
  - West: City Road (Metallic)
  - North: Office compound ground
  - South: Nepal Telecom Office
- Establish year: 2019 (2076)
- 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 Surkhet Station (2019- 2020)

### 2.1 Air Quality Status, 2019

#### 2.1.1 Annual average of PM<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>10</sub> and TSP

Since the data were available from five months, the annual average of PM<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>10</sub> and TSP for Surkhet Station could not be calculated

#### 2.1.2 Temporal variation of PM<sub>1</sub>

##### **Annual average of PM<sub>1</sub>**

Since, the data of five-months data are only available, the annual average could not be calculated. The five-month average of PM<sub>1</sub> was calculated to be 16.12 µg/m<sup>3</sup>.

##### **Daily average of PM<sub>1</sub>**

Daily average concentration of PM<sub>1</sub> was high during December and low during July and August as shown in the figure below.

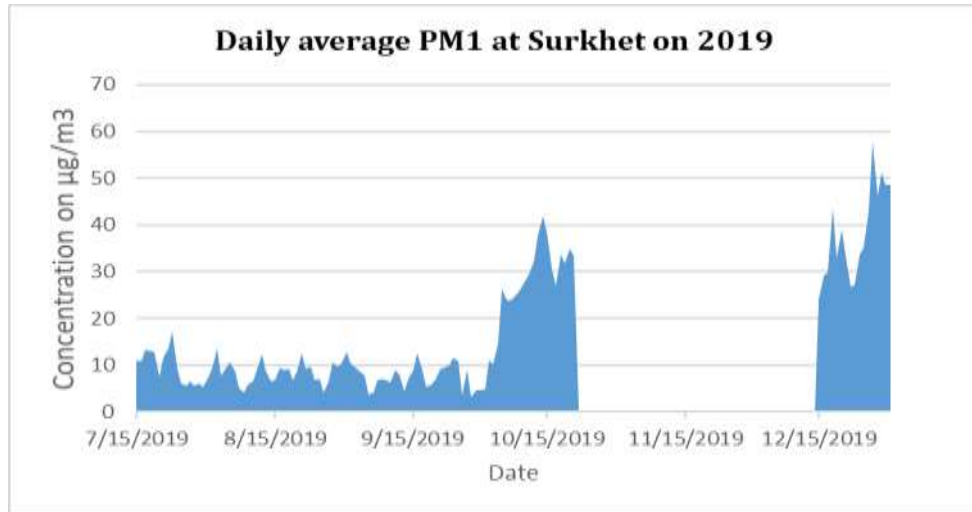


Figure 1: Daily average of PM<sub>1</sub>

**Monthly average of PM<sub>1</sub>**

The highest and the lowest monthly average of PM<sub>1</sub> was found during December (38.28 µg/m<sup>3</sup>) and September (7.49 µg/m<sup>3</sup>) respectively as shown in the figure below.

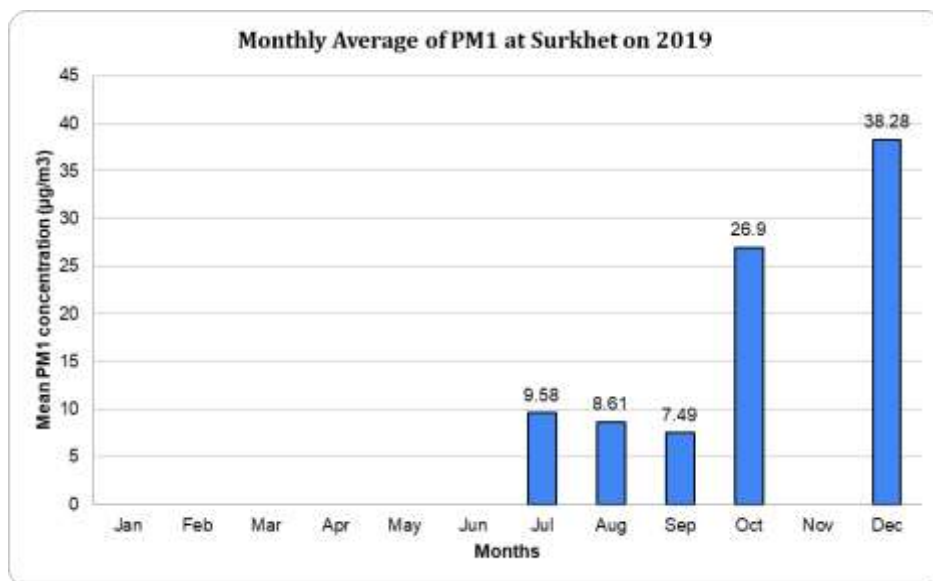


Figure 2: Monthly Average of PM<sub>1</sub>

**Monthly variation of PM<sub>1</sub>**

Variation in concentration of PM<sub>1</sub> was found more in December and low in October.

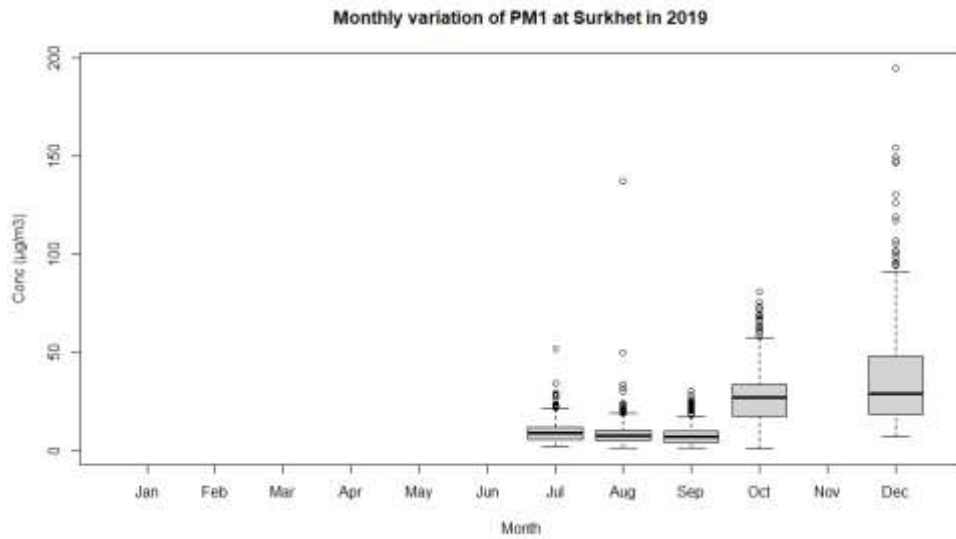


Figure 3: Monthly Variation of PM<sub>1</sub>

### Seasonal variation of PM<sub>1</sub>

Ambient concentration of average PM<sub>1</sub> during Monsoon (June-September), and Post-monsoon (October-November) can be shown in the below. The concentration of PM<sub>1</sub> was found higher during Post-monsoon (17.19 µg/m<sup>3</sup>) than Monsoon season (9.09 µg/m<sup>3</sup>).

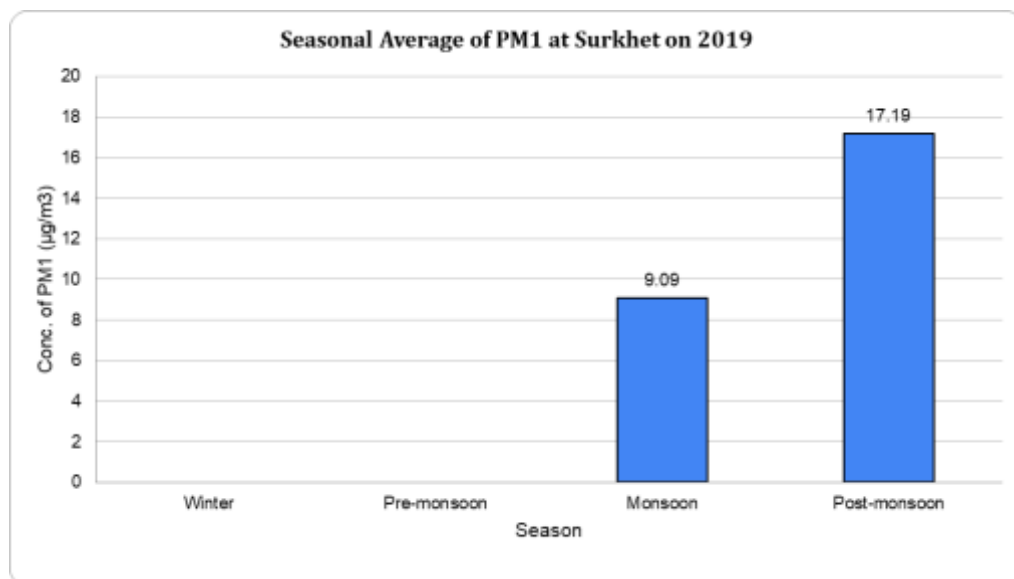


Figure 4: Seasonal Average of PM<sub>1</sub>

### Diurnal variation of PM<sub>1</sub>

The diurnal variation of average PM<sub>1</sub> concentration can be shown in the figure below. The variation in PM<sub>1</sub> concentration was high at around 7 am and low at 2 pm.



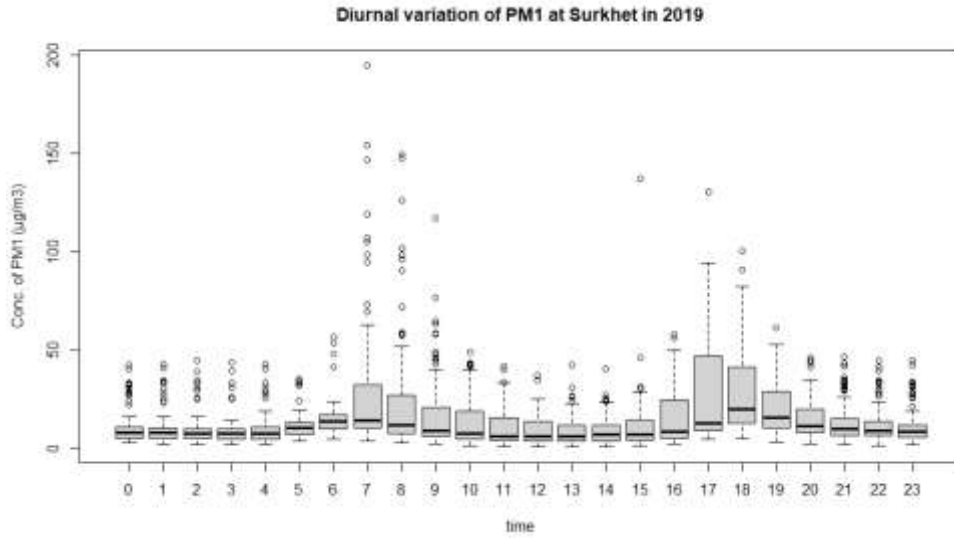


Figure 5: Diurnal Variation of PM<sub>1</sub> concentration

### 2.1.3 Temporal variation of PM<sub>2.5</sub>

#### Annual average of PM<sub>2.5</sub>

Due to lack of data, annual average of PM<sub>2.5</sub> could not be calculated. However, the five-months average of PM<sub>2.5</sub> was calculated as 19.48 µg/m<sup>3</sup>.

#### Daily average of PM<sub>2.5</sub>

Daily average concentration of PM<sub>2.5</sub> was high during December and was found low during July and August.

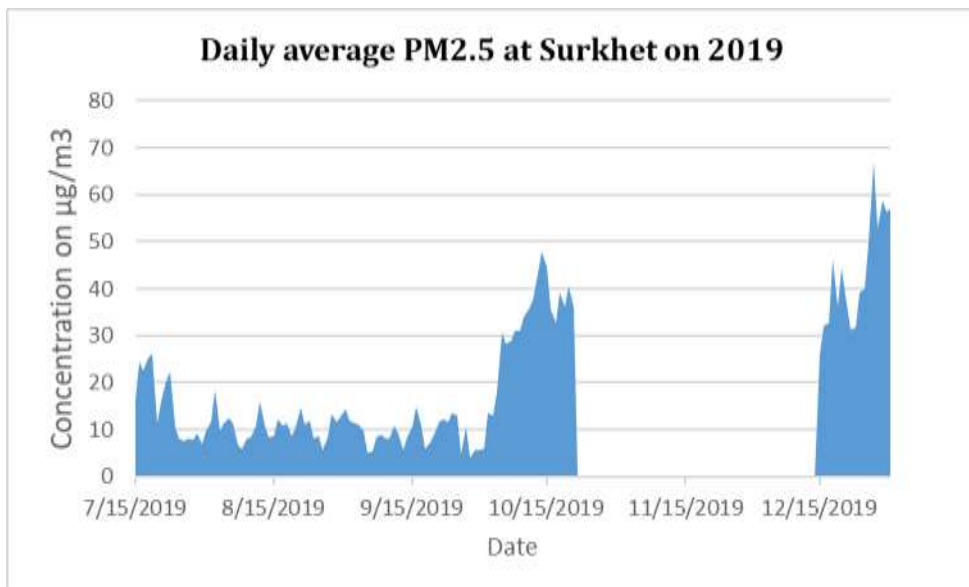


Figure 6: Daily average of PM<sub>2.5</sub>

### Monthly average of PM<sub>2.5</sub>

The highest and the lowest concentration of PM<sub>2.5</sub> was found during December (43.43  $\mu\text{g}/\text{m}^3$ ) and September (9.09  $\mu\text{g}/\text{m}^3$ ) respectively.

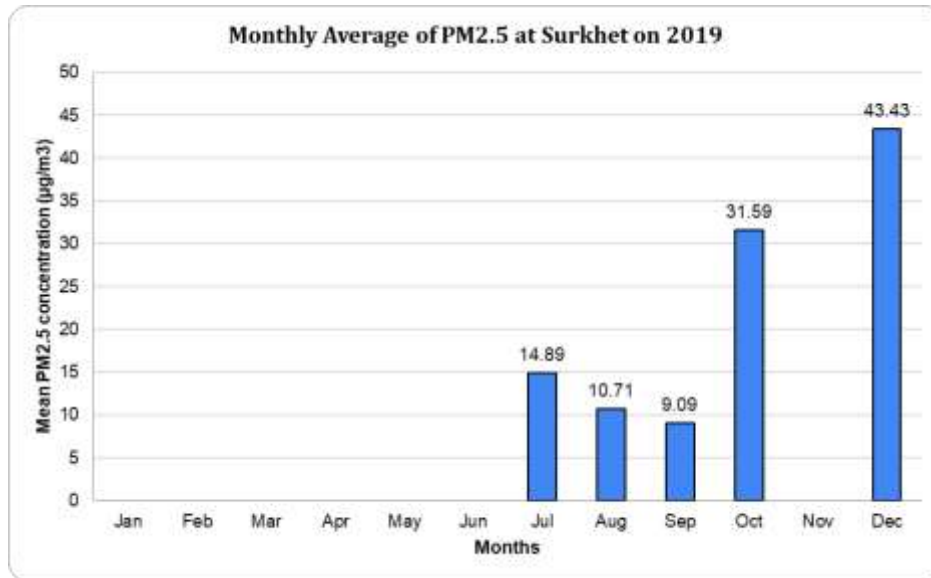


Figure 7: Monthly Average of PM<sub>2.5</sub>

### Monthly variation of PM<sub>2.5</sub>

Variation in concentration of PM<sub>2.5</sub> was found more during December and low during September.

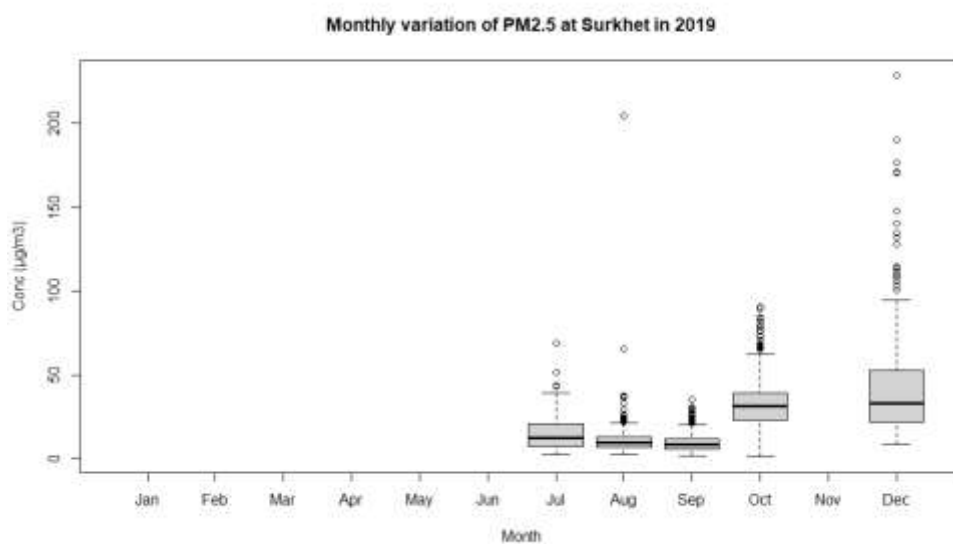


Figure 8: Monthly Variation of PM<sub>2.5</sub>

### Seasonal variation of PM<sub>2.5</sub>

Ambient concentration of average PM<sub>2.5</sub> during Monsoon (June-September), and Post-monsoon (October-November) can be shown in the below. The concentration of PM<sub>2.5</sub> was found higher during Post-monsoon (20.34  $\mu\text{g}/\text{m}^3$ ) than Monsoon season (12.8  $\mu\text{g}/\text{m}^3$ ).

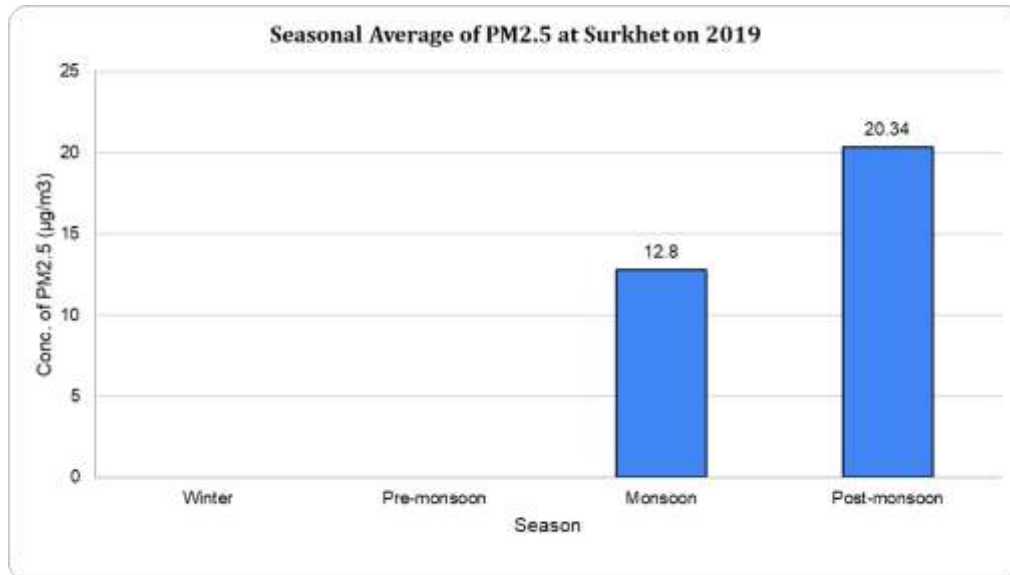


Figure 9: Seasonal Variation of PM<sub>2.5</sub>

### Diurnal variation of PM<sub>2.5</sub>

The diurnal variation of average PM<sub>2.5</sub> concentrations can be shown in the figure below. The variation in PM<sub>2.5</sub> concentrations was high at around 5 pm and low at 1 am to 3 am.

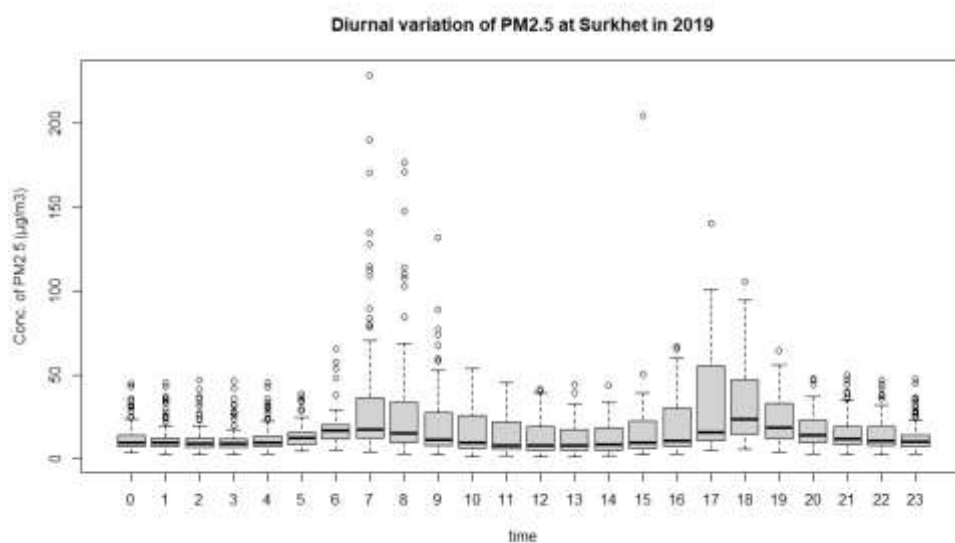


Figure 10: Diurnal Variation of PM<sub>2.5</sub>

## Compliance status of PM<sub>2.5</sub>

The total days of PM<sub>2.5</sub> monitored in the year 2019 counts 116, of which 12 days exceeded the NAAQS guideline.

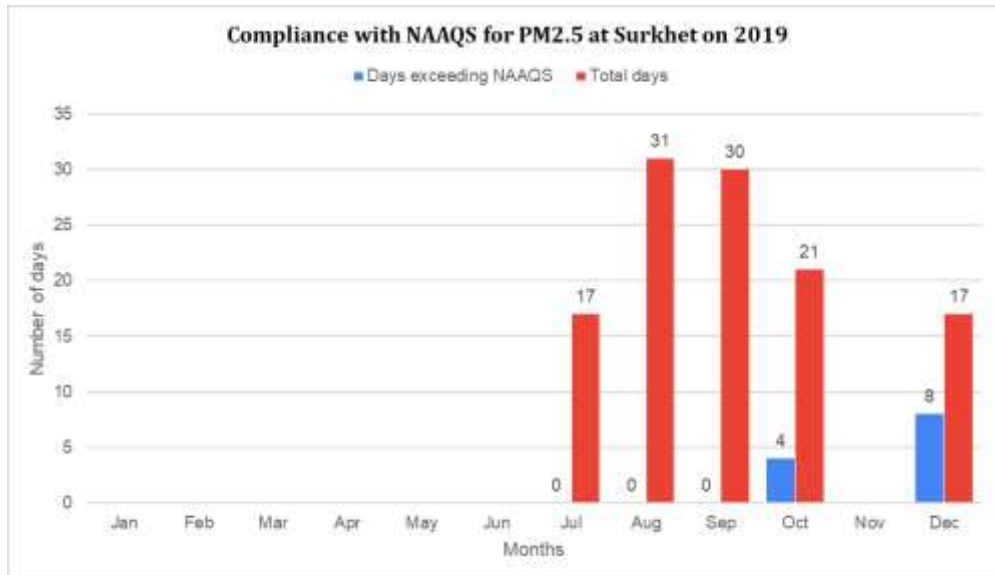


Figure 11: Compliance status of PM<sub>2.5</sub>

### 2.1.4 Temporal variation of PM<sub>10</sub>

#### Annual average of PM<sub>10</sub>

Due to lack of data annual average of PM<sub>10</sub> could not be calculated. However, the five-months average of PM<sub>10</sub> was calculated as 29.48  $\mu\text{g}/\text{m}^3$ .

#### Daily average of PM<sub>10</sub>

Daily average concentration of PM<sub>10</sub> was high during December and lower during August.

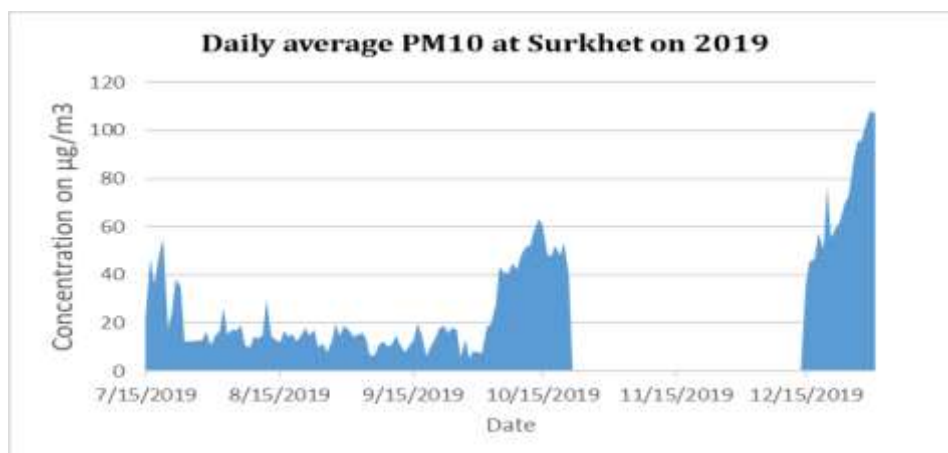


Figure 12: Daily average of PM<sub>10</sub>

### Monthly average of PM<sub>10</sub>

The highest and the lowest average of PM<sub>10</sub> was found during December (72.46 µg/m<sup>3</sup>) and September (12.24 µg/m<sup>3</sup>) respectively.

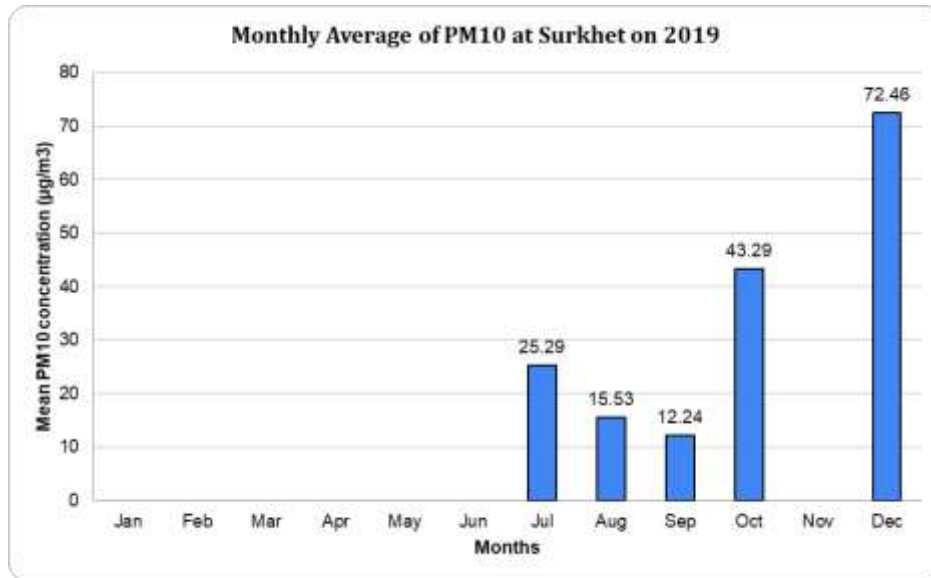


Figure 13: Monthly average of PM<sub>10</sub>

### Monthly variation of PM<sub>10</sub>

Variation in concentration of PM<sub>10</sub> was found more in December and low in September.

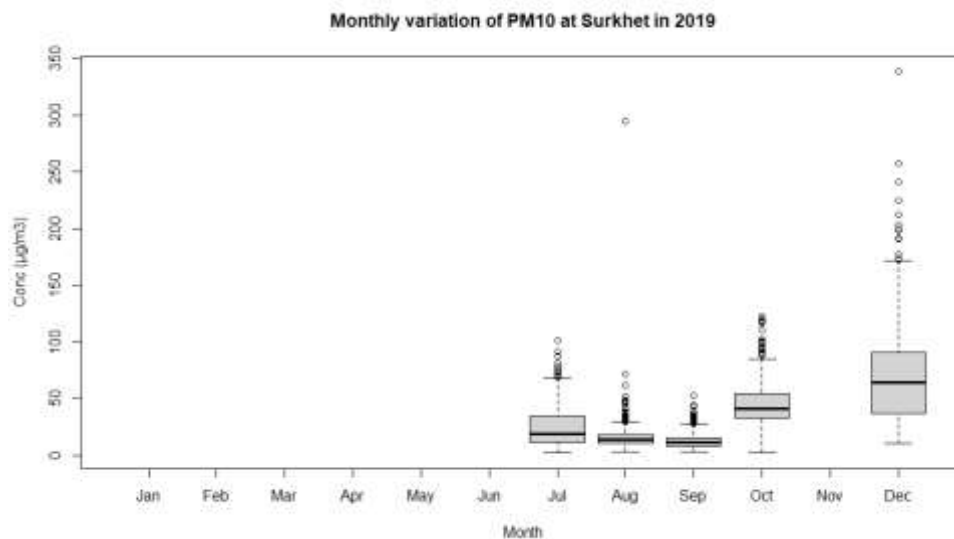


Figure 14: Monthly Variation of PM<sub>10</sub>

### Seasonal variation of PM<sub>10</sub>

Ambient concentration of average PM<sub>10</sub> during Monsoon (June-September), and Post-monsoon (October-November) can be shown in the figure below. The concentration of

PM<sub>10</sub> was found higher during Post-monsoon (27.77 µg/m<sup>3</sup>) than Monsoon season (20.41 µg/m<sup>3</sup>).

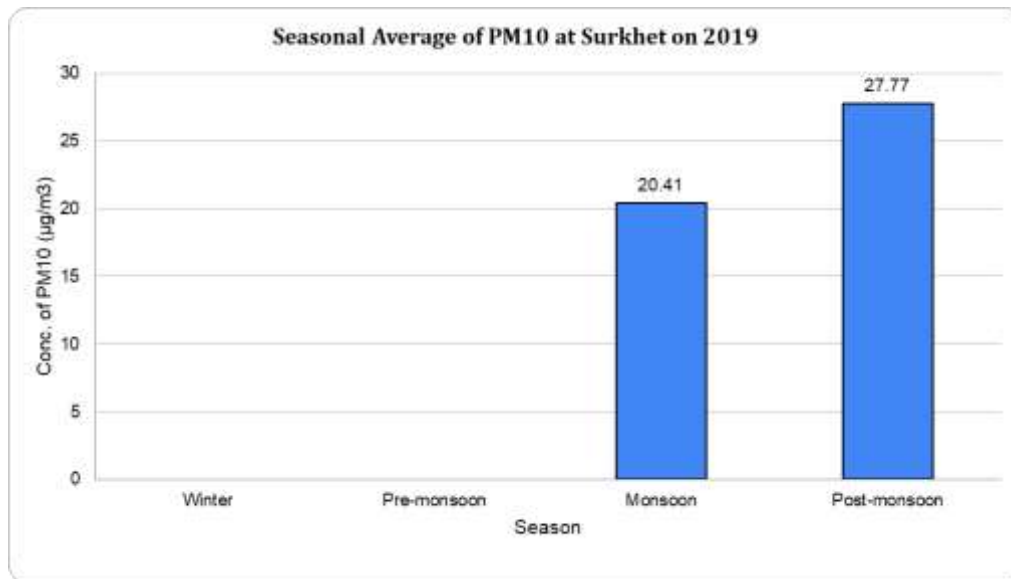


Figure 15: Seasonal Average of PM<sub>10</sub>

### Diurnal variation of PM<sub>10</sub>

The diurnal variation of average PM<sub>10</sub> concentrations can be shown in the figure below. The variation in PM<sub>10</sub> concentration was high at around 5 pm and low at 11 pm and 1 to 2 am.

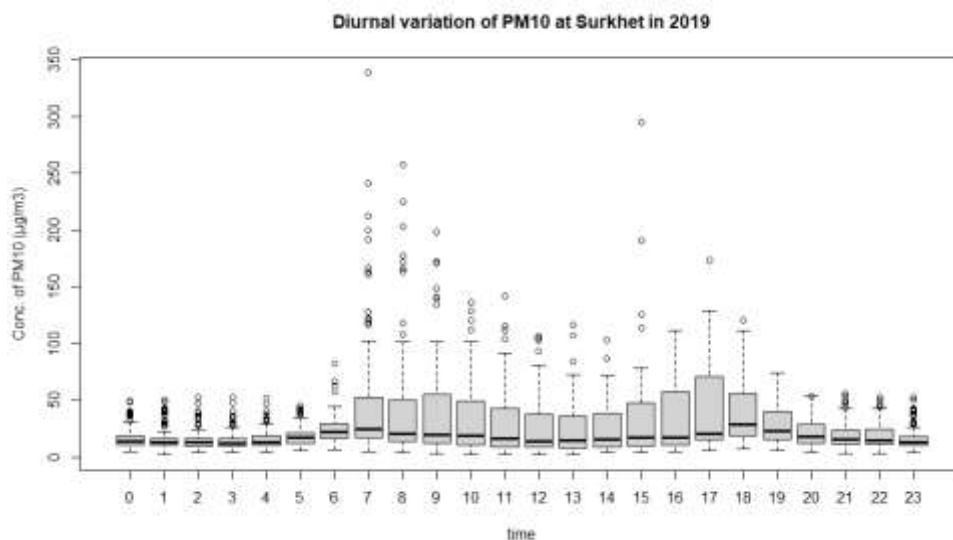


Figure 16: Diurnal Variation PM<sub>10</sub>

## Compliance status of PM<sub>10</sub>

The total days of PM<sub>10</sub> monitored in the year 2019 counts 116 of which none of the days exceed the NAAQS guideline.

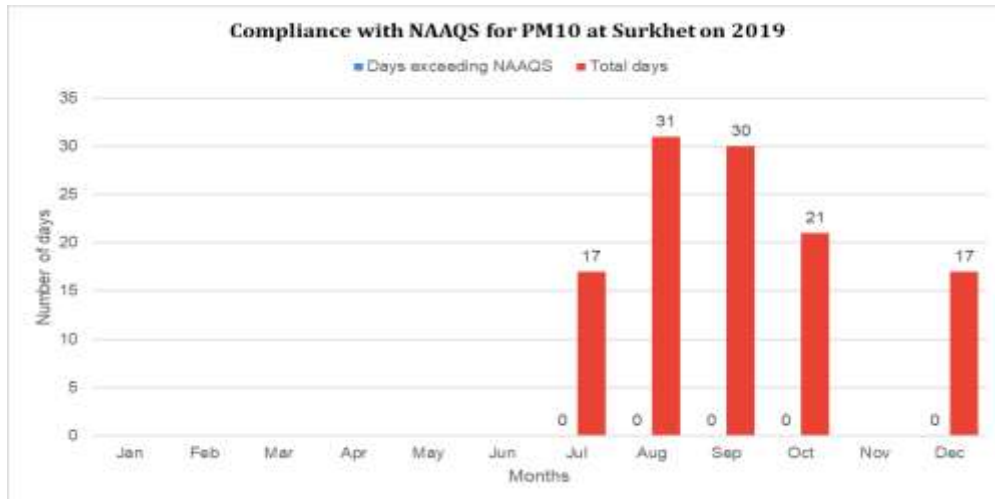


Figure 17: Compliance status of PM<sub>10</sub>

### 2.1.5 Temporal variation of TSP

#### Annual average of TSP

Due to lack of data, the annual average for TSP could not be calculated. However, the five-months average of TSP was calculated as 280.72  $\mu\text{g}/\text{m}^3$ .

#### Daily average of TSP

Daily average concentration of TSP was high during July and low during December.

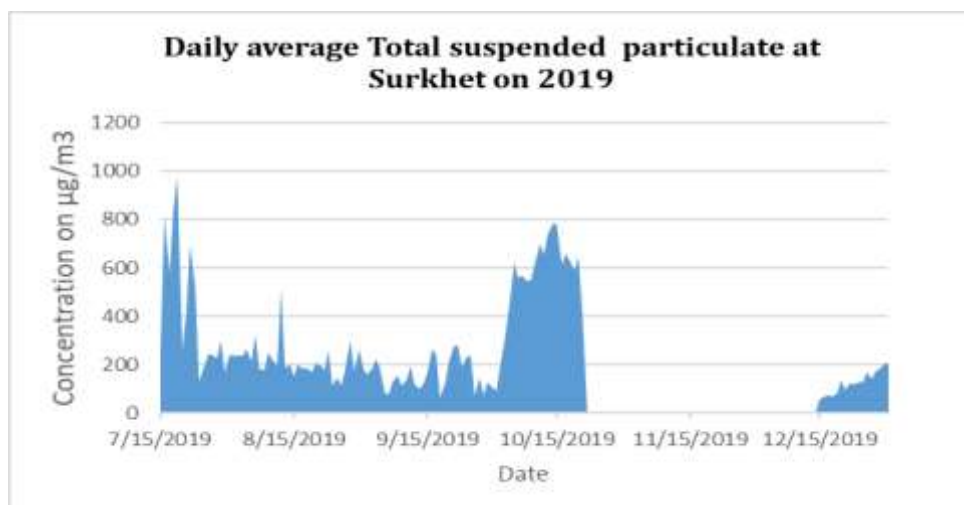


Figure 18: Daily average of TSP

### Monthly average of TSP

The highest and the lowest monthly average of TSP was found during October (559.91  $\mu\text{g}/\text{m}^3$ ) and December (127.55  $\mu\text{g}/\text{m}^3$ ) respectively.

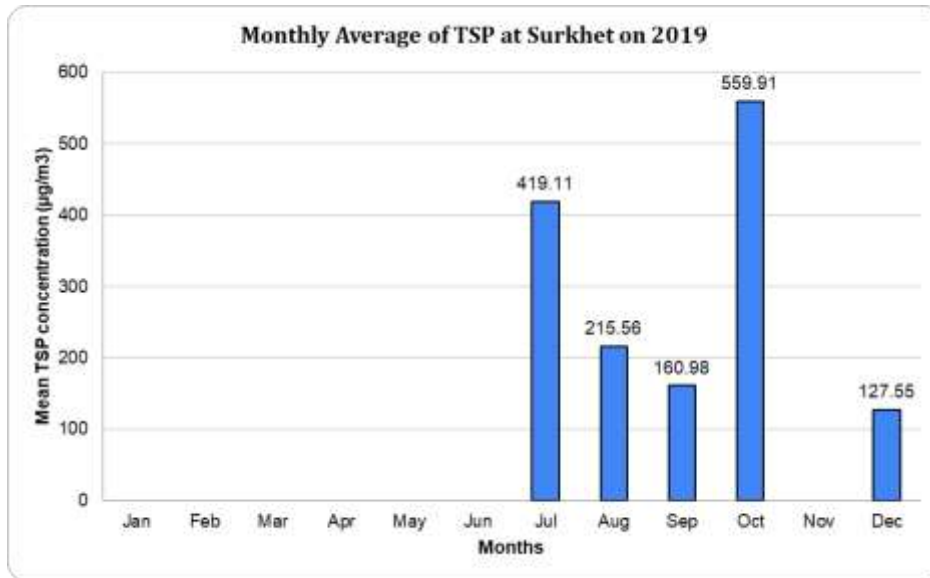


Figure 19: Monthly average of TSP

### Monthly variation of TSP

Variation in concentration of TSP was found more in October and low in September.

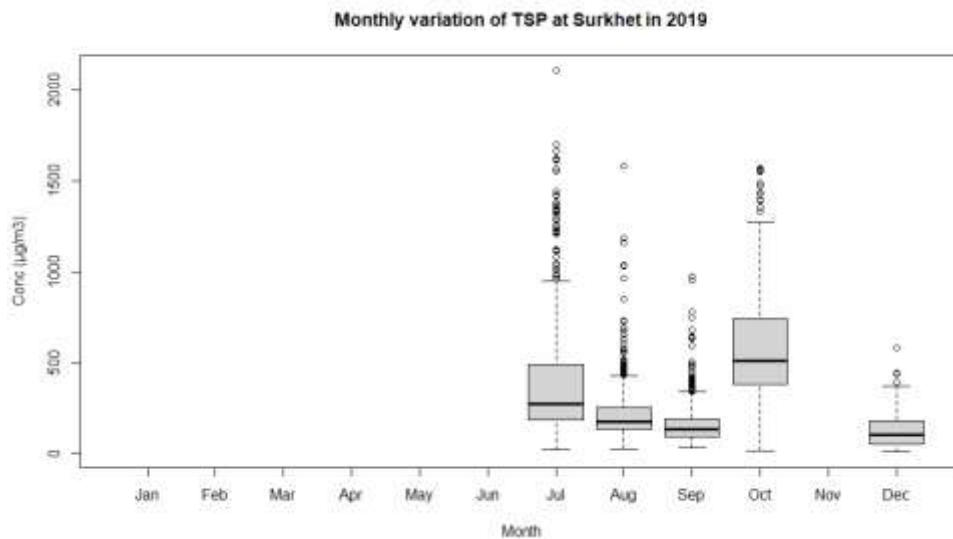


Figure 20: Monthly Variation of TSP



### Seasonal variation of TSP

Ambient concentration of average TSP during Monsoon (June-September), and Post-monsoon (October-November) can be shown in the figure below. The concentration of TSP was found higher during Post-monsoon ( $360.44 \mu\text{g}/\text{m}^3$ ) than Monsoon season ( $317.34 \mu\text{g}/\text{m}^3$ ).

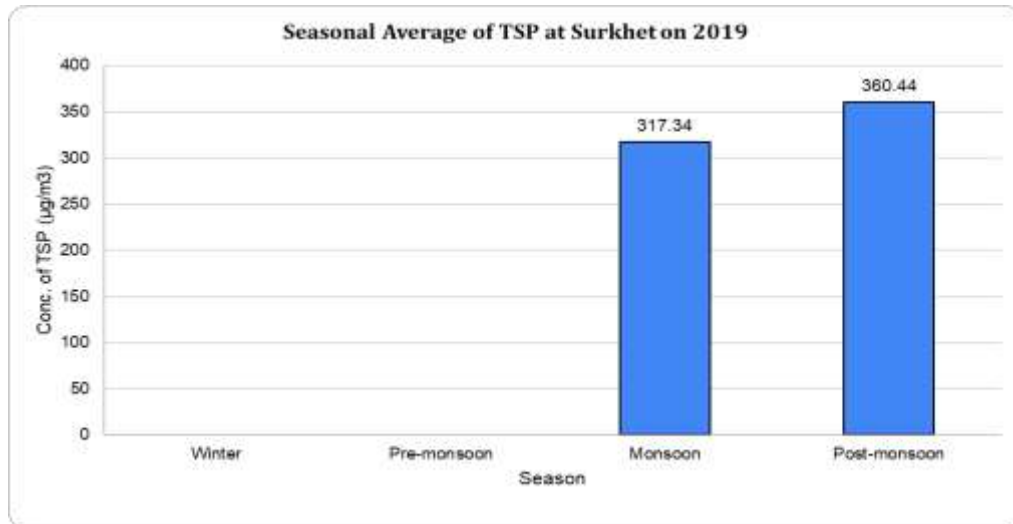


Figure 21: Seasonal Average of TSP

### Diurnal variation of TSP

The diurnal variation of average TSP concentrations can be shown in the figure below. The variation in TSP concentration was high at around 10 am and low at 2 am and 4 am.

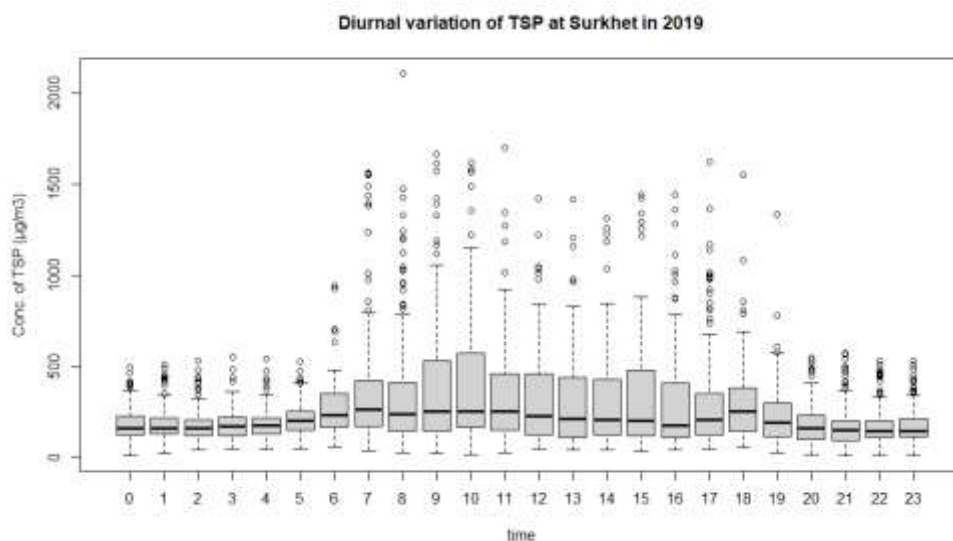


Figure 22: Diurnal Variation of TSP

## Compliance status of TSP

The total days of TSP monitored in the year 2020 counts 116 of which 48 days exceed the NAAQS guideline.

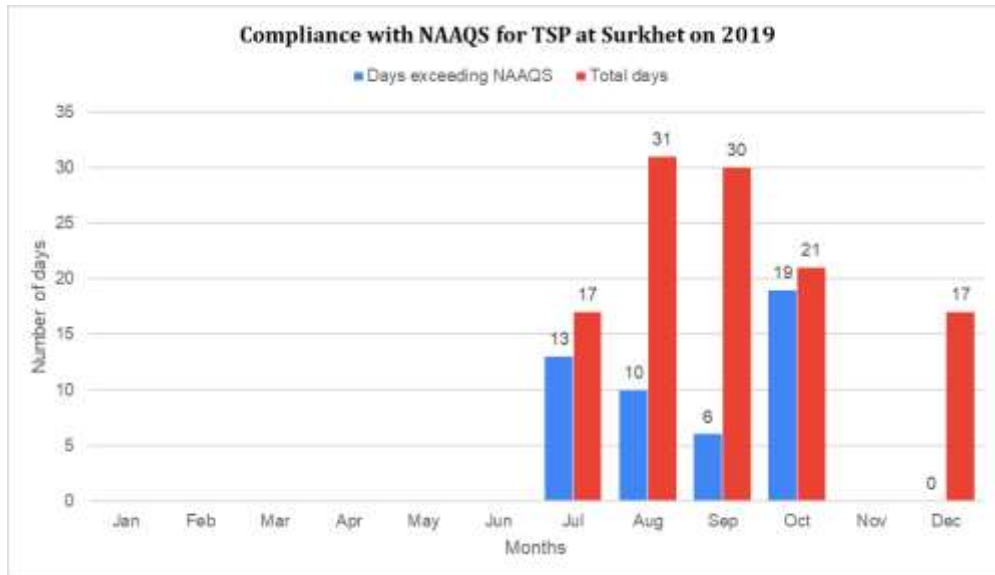


Figure 23: Compliance Status of TSP

## 2.2 Air Quality Status, 2020

### 2.2.1 Annual average of PM<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>10</sub> and TSP

Due to the availability of four-months data, the annual average of PM<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>10</sub> and TSP for the Surkhet station could not be calculated.

### 2.2.2 Temporal variation of PM<sub>1</sub>

#### Annual average of PM<sub>1</sub>

The annual average for PM<sub>1</sub> for Surkhet Station could not be calculated. However, the four-months average of PM<sub>1</sub> was found to be 34.08 µg/m<sup>3</sup>.

#### Daily average of PM<sub>1</sub>

Daily average concentration of PM<sub>1</sub> was high during February and low during March as shown in the figure below.

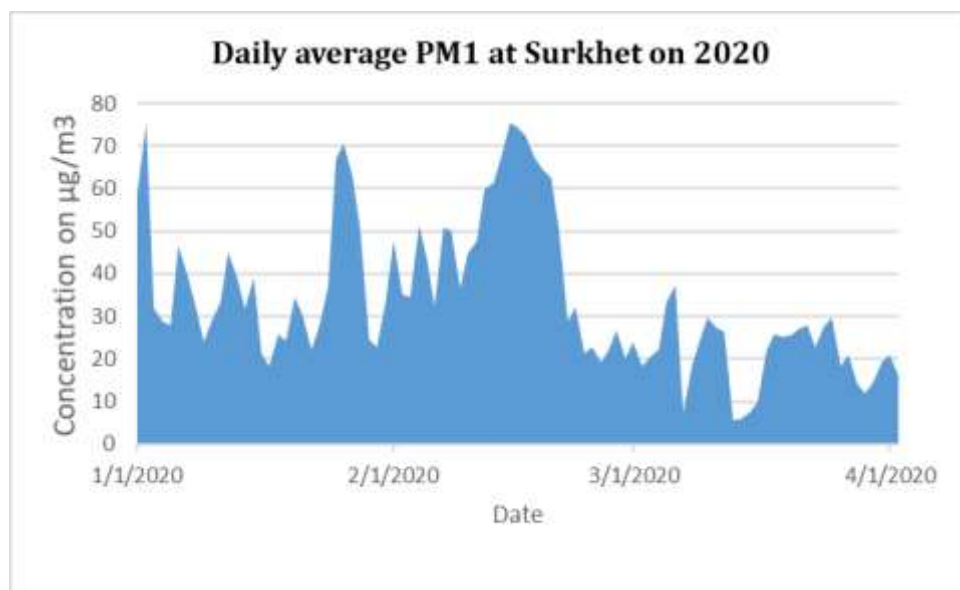


Figure 24: Daily Average of PM<sub>1</sub>

#### Monthly average of PM<sub>1</sub>

The highest and the lowest monthly average of PM<sub>1</sub> was found during February (45.68 µg/m<sup>3</sup>) and March (21.03 µg/m<sup>3</sup>) respectively. It is to be noted that the two-day data of April was excluded from the consideration.

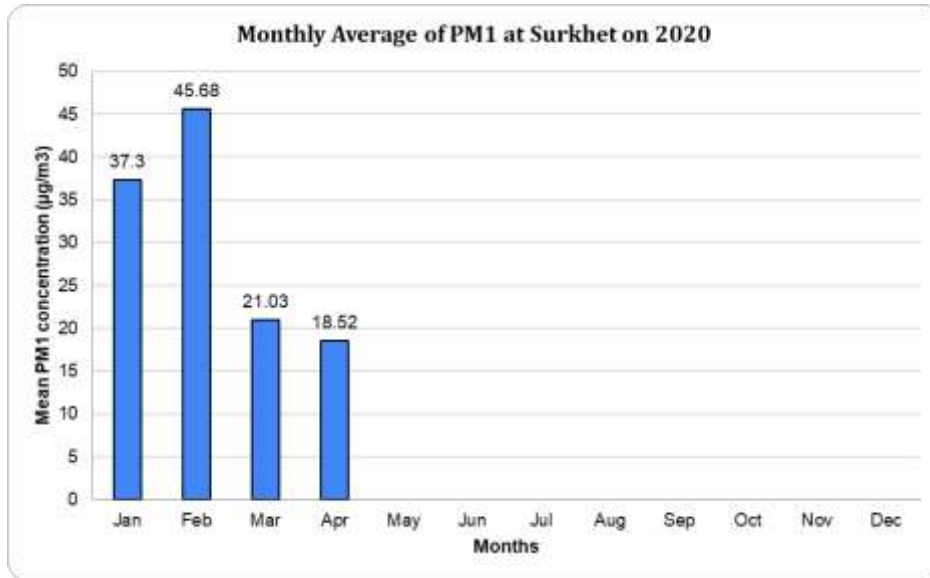


Figure 25: Monthly Average PM<sub>1</sub>

### Monthly Variation of PM<sub>1</sub>

Variation in concentration of PM<sub>1</sub> was found more in February and low in March as shown in the figure below.

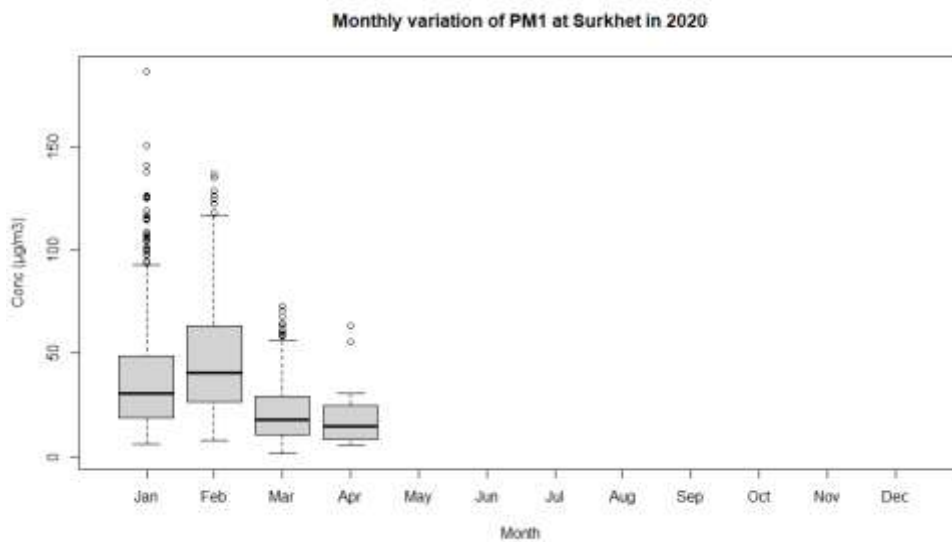


Figure 26: Monthly Variation of PM<sub>1</sub>

### Seasonal variation of PM<sub>1</sub>

Ambient concentration of average PM<sub>1</sub> during Winter (December-February), and Pre-monsoon (March-May) can be shown in the **Error! Reference source not found.** figure below. The concentration of PM<sub>1</sub> was found higher during Winter (40.42 µg/m<sup>3</sup>) than Pre-monsoon season (13.18 µg/m<sup>3</sup>).

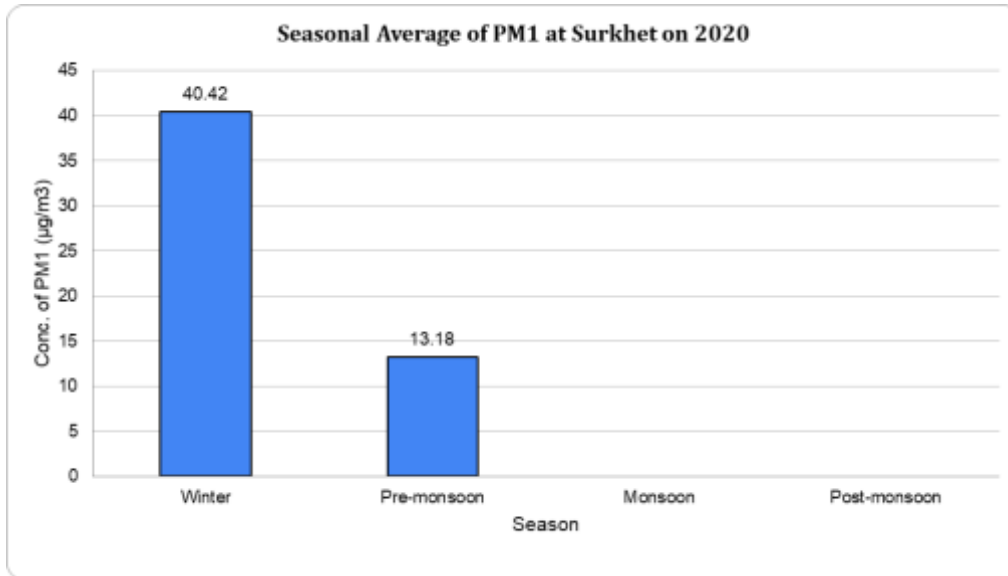


Figure 27: Seasonal Variation of PM<sub>1</sub>

### Diurnal variation of PM<sub>1</sub>

The diurnal variation of average PM<sub>1</sub> concentration can be shown in the figure below. The variation in PM<sub>1</sub> concentration was high at around 7 am and low at 2 am.

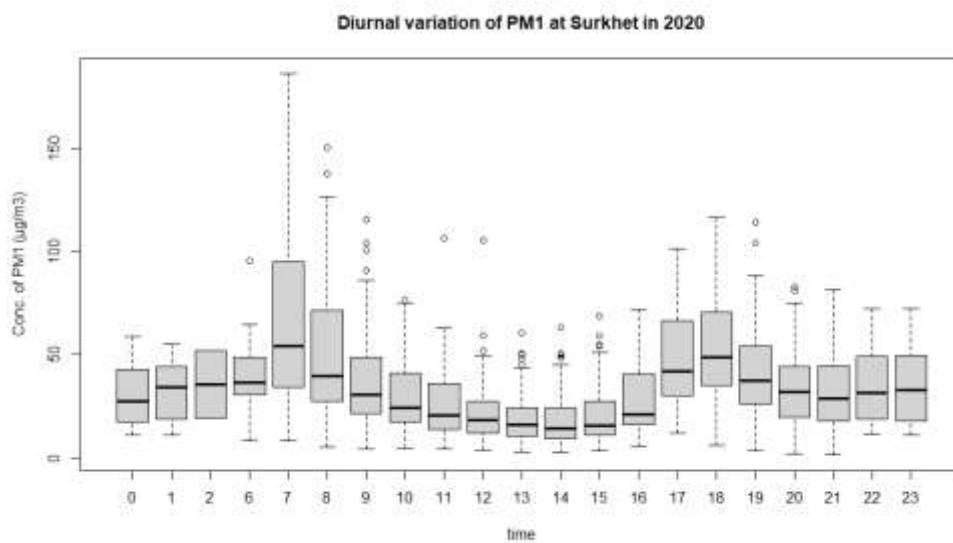


Figure 28: Diurnal Variation of PM<sub>1</sub>

### 2.2.3 Temporal variation of PM<sub>2.5</sub>

#### Annual average of PM<sub>2.5</sub>

Due to lack of data, annual average of PM<sub>2.5</sub> could not be calculated. However, the five-months average of PM<sub>2.5</sub> was calculated as 39.67  $\mu\text{g}/\text{m}^3$ .

### Daily average of PM<sub>2.5</sub>

Daily average concentration of PM<sub>2.5</sub> was high during February and was found low during March.

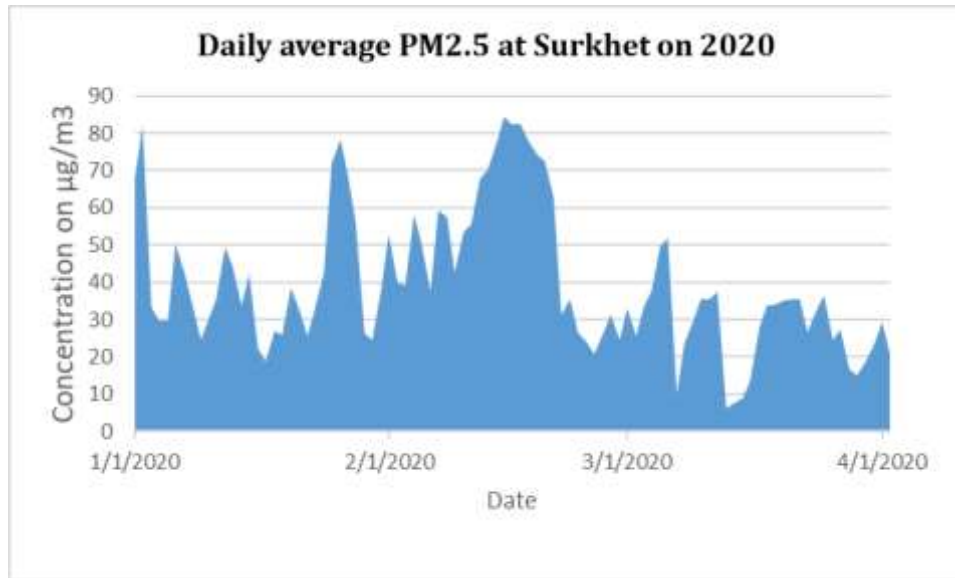


Figure 29: Daily Average of PM<sub>2.5</sub>

### Monthly average of PM<sub>2.5</sub>

The highest and the lowest monthly average of PM<sub>2.5</sub> was found during February (52.35 µg/m<sup>3</sup>) and March (27.79 µg/m<sup>3</sup>) respectively. It is to be noted that the two-day data of April was excluded from the consideration.

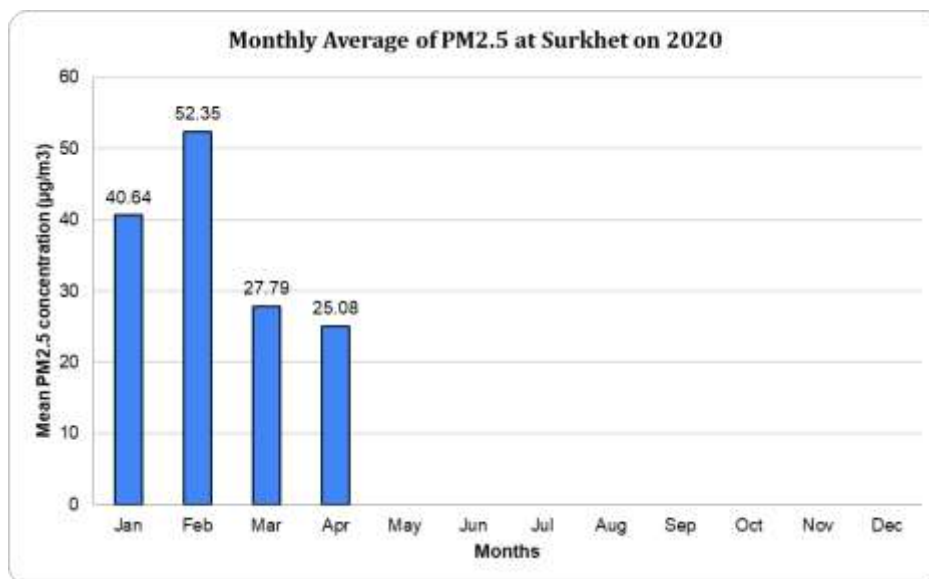


Figure 30: Monthly Average of PM<sub>2.5</sub>

## Monthly Variation of PM<sub>2.5</sub>

Variation in concentration of PM<sub>2.5</sub> was found more during February and low during March.

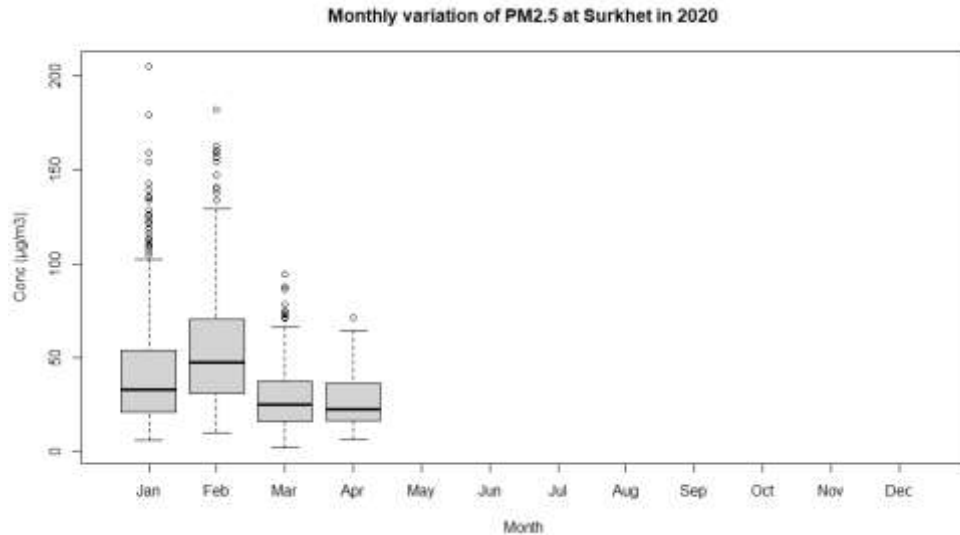


Figure 31: Monthly Variation of PM<sub>2.5</sub>

## Seasonal variation of PM<sub>2.5</sub>

Ambient concentration of average PM<sub>2.5</sub> during Winter (December-February), and Pre-monsoon (March-May) can be shown in the figure below. The concentration of PM<sub>2.5</sub> was found higher during Winter (45.47 µg/m<sup>3</sup>) than Pre-monsoon season (17.62 µg/m<sup>3</sup>).

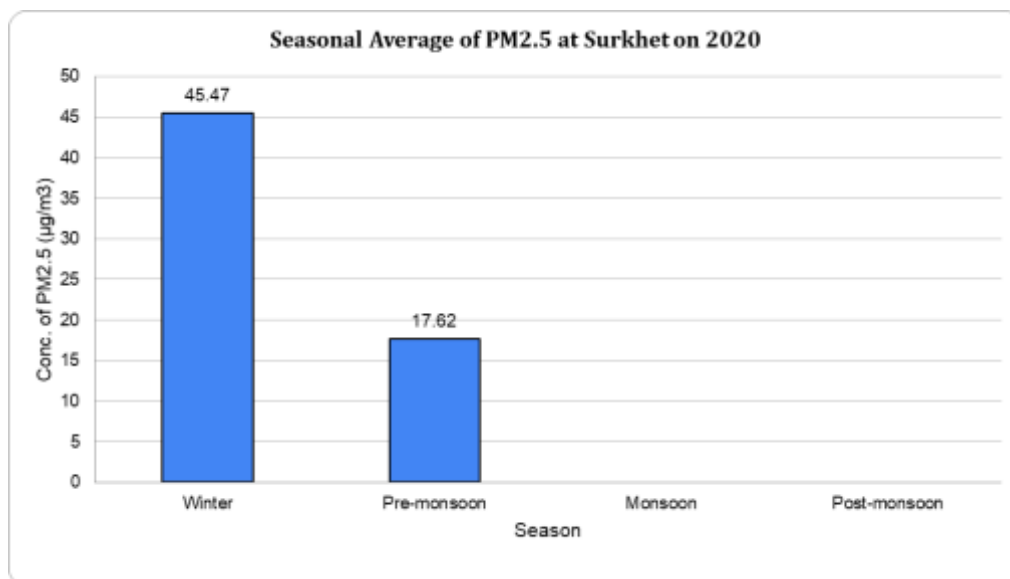


Figure 32: Seasonal Variation of PM<sub>2.5</sub>

### Diurnal variation of PM<sub>2.5</sub>

The diurnal variation of average PM<sub>2.5</sub> concentrations can be shown in the figure below. The variation in PM<sub>2.5</sub> concentration was high at around 7 am and low at 1pm.

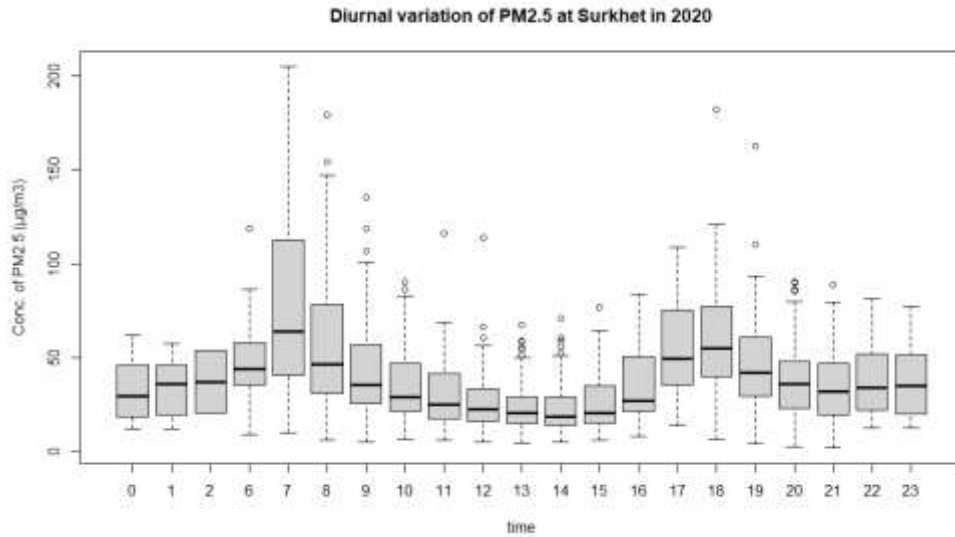


Figure 33: Diurnal Variation of PM<sub>2.5</sub>

### Compliance status of PM<sub>2.5</sub>

The total days of PM<sub>2.5</sub> monitored in the year 2020 counts 93, of which 32 days exceeded the NAAQS guideline.

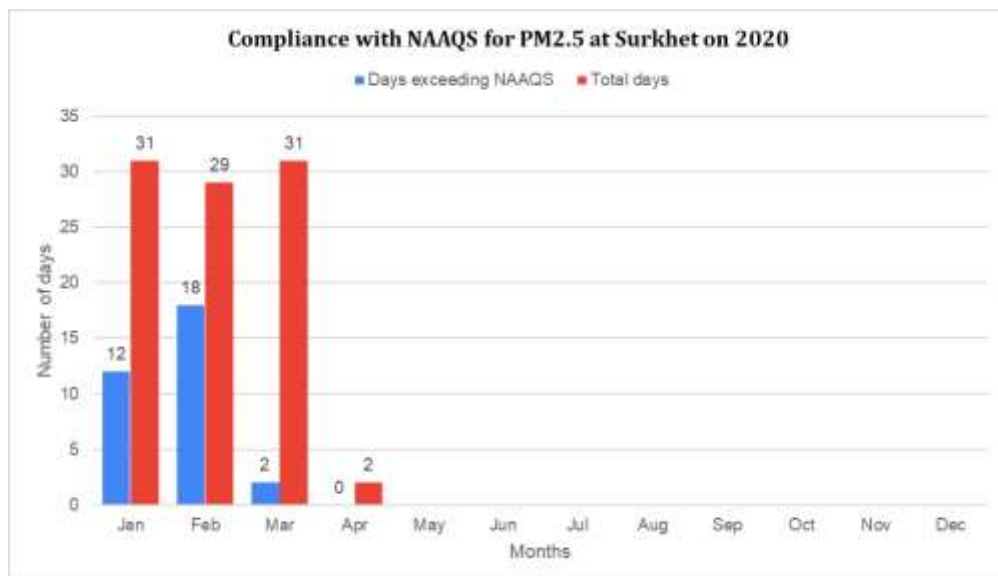


Figure 34: Compliance Status of PM<sub>2.5</sub>



## 2.2.4 Temporal variation of PM<sub>10</sub>

### Annual average of PM<sub>10</sub>

Due to lack of data, annual average of PM<sub>10</sub> could not be calculated. However, the four-months average of PM<sub>10</sub> was calculated as 65.23 µg/m<sup>3</sup>.

### Daily average of PM<sub>10</sub>

Daily average concentration of PM<sub>10</sub> was high during December and low during August.

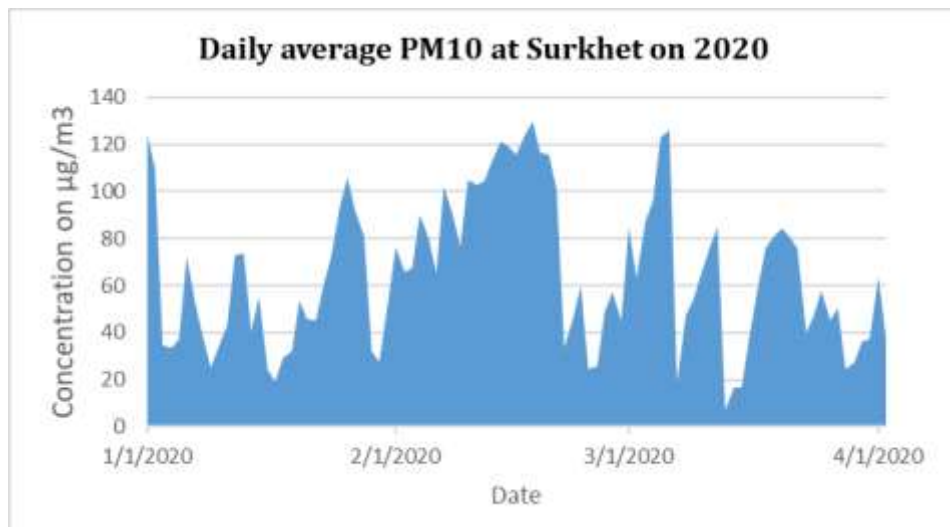


Figure 35: Daily Average of PM<sub>10</sub>

### Monthly average of PM<sub>10</sub>

The highest and the lowest monthly average of PM<sub>10</sub> was found during February (83.61 µg/m<sup>3</sup>) and January (55.27 µg/m<sup>3</sup>) respectively. It is to be noted that the two-day data of April was excluded from the consideration.

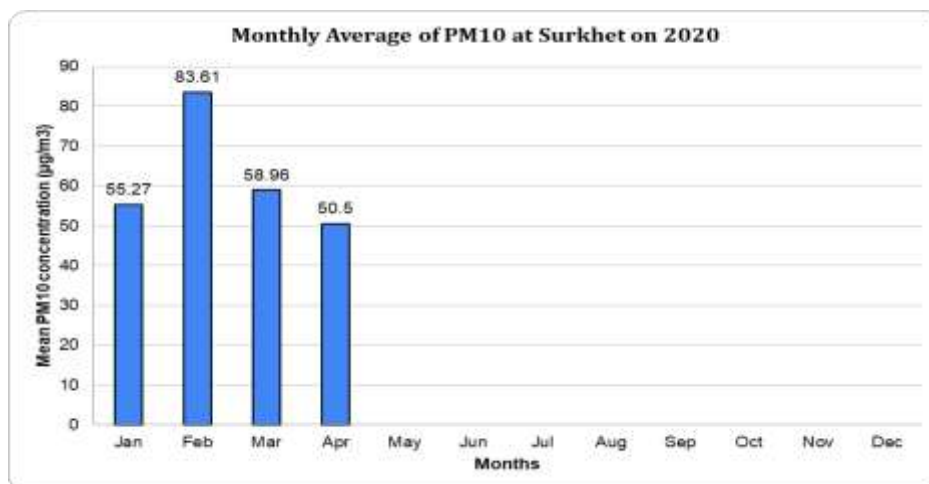


Figure 36: Monthly Average of PM<sub>10</sub>

## Monthly Variation of PM<sub>10</sub>

Variation in concentration of PM<sub>10</sub> was found high in February and low in January.

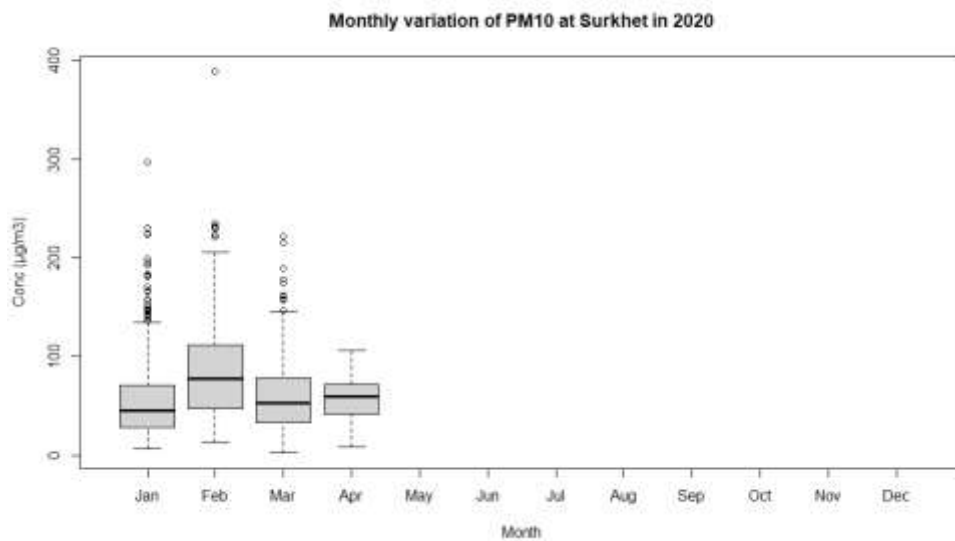


Figure 37: Monthly Variation of PM<sub>10</sub>

## Seasonal variation of PM<sub>10</sub>

Ambient concentration of average PM<sub>10</sub> during Winter (December-February), and Pre-monsoon (March-May), can be shown in the figure below. The concentration of PM<sub>10</sub> was found higher during Winter (70.44 µg/m<sup>3</sup>) than Pre-monsoon season (54.73 µg/m<sup>3</sup>).

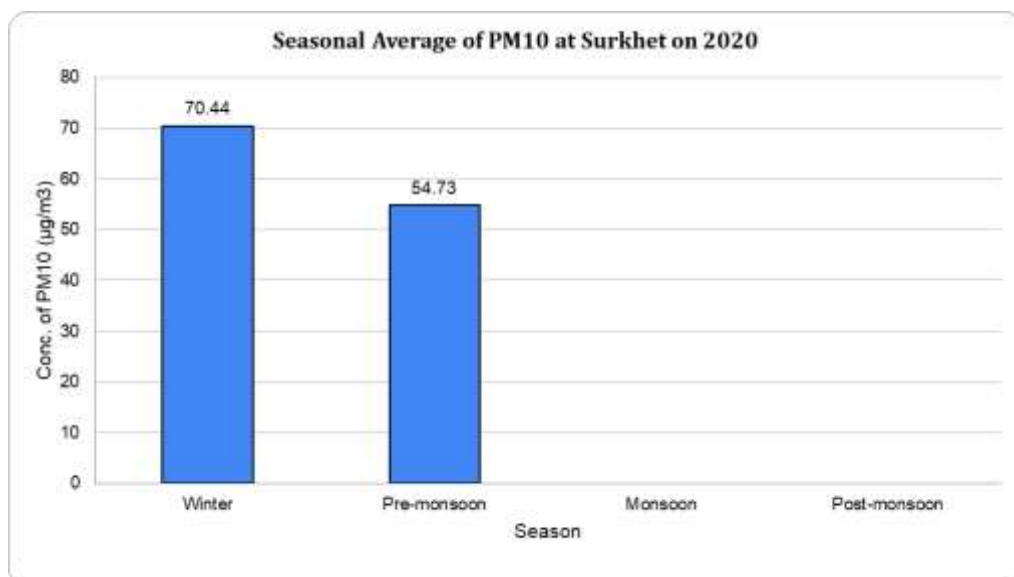


Figure 38: Seasonal Average of PM<sub>10</sub>

### Diurnal variation of PM<sub>10</sub>

The diurnal variation of average PM<sub>10</sub> concentrations can be shown in the figure below. The variation in PM<sub>10</sub> concentration was high at around 7 am and low at 2 am.

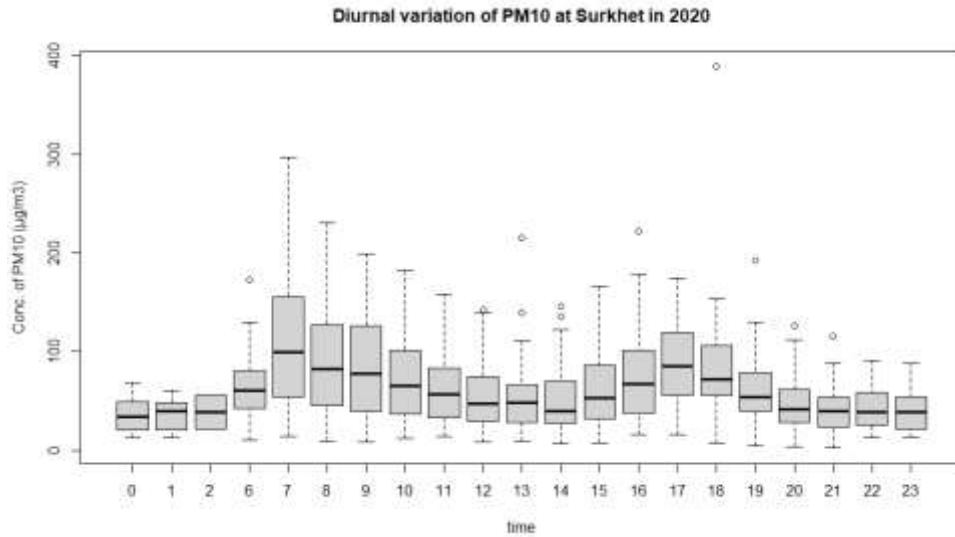


Figure 39: Diurnal Variation of PM<sub>10</sub>

### Compliance status of PM<sub>10</sub>

The total days of PM<sub>10</sub> monitored in the year 2020 counts 93 of which 6 days exceed the NAAQS guideline.

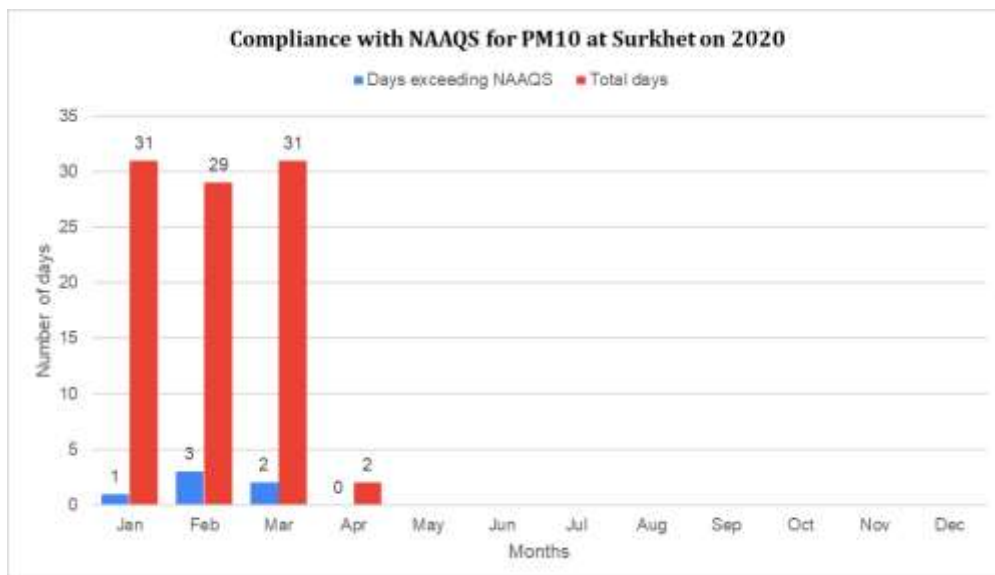


Figure 40: Compliance Status of PM<sub>10</sub>

## 2.2.5 Temporal variation of TSP

### Annual average of TSP

Due to lack of data, annual average of TSP could not be calculated. However, the four-months average of TSP was calculated as  $120.02 \mu\text{g}/\text{m}^3$ .

### Daily average of TSP

Daily average concentration of TSP was high during March and low during January.

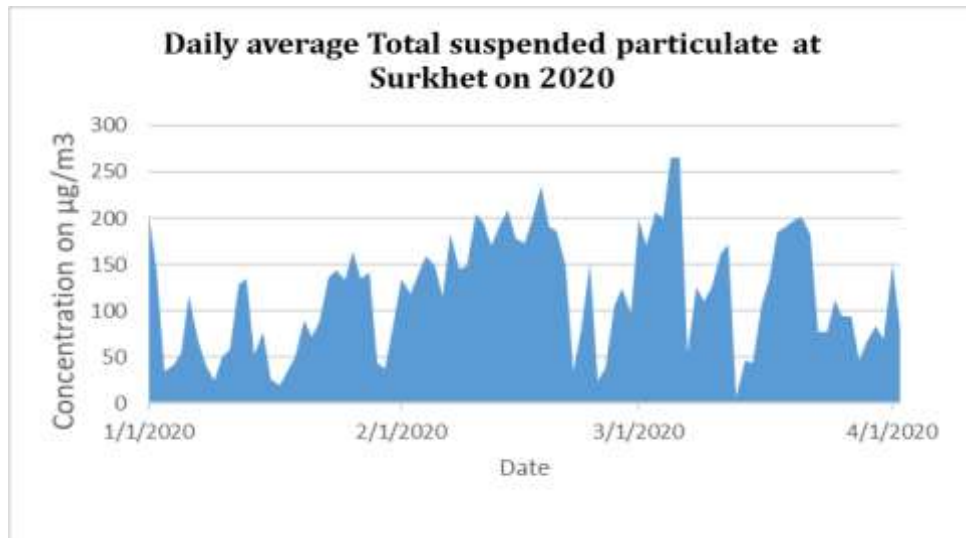


Figure 41: Daily Average of TSP

### Monthly average of TSP

The highest and the lowest monthly average of TSP was found during February ( $145.89 \mu\text{g}/\text{m}^3$ ) and January ( $84.91 \mu\text{g}/\text{m}^3$ ) respectively.

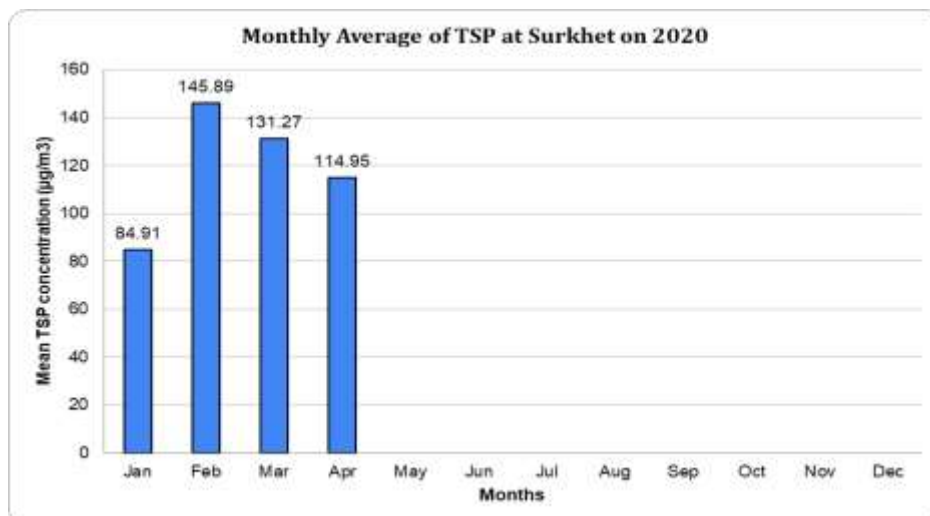


Figure 42: Monthly Average of TSP

### Monthly Variation of TSP

Variation in concentration of TSP was found more in February and March and low in January.

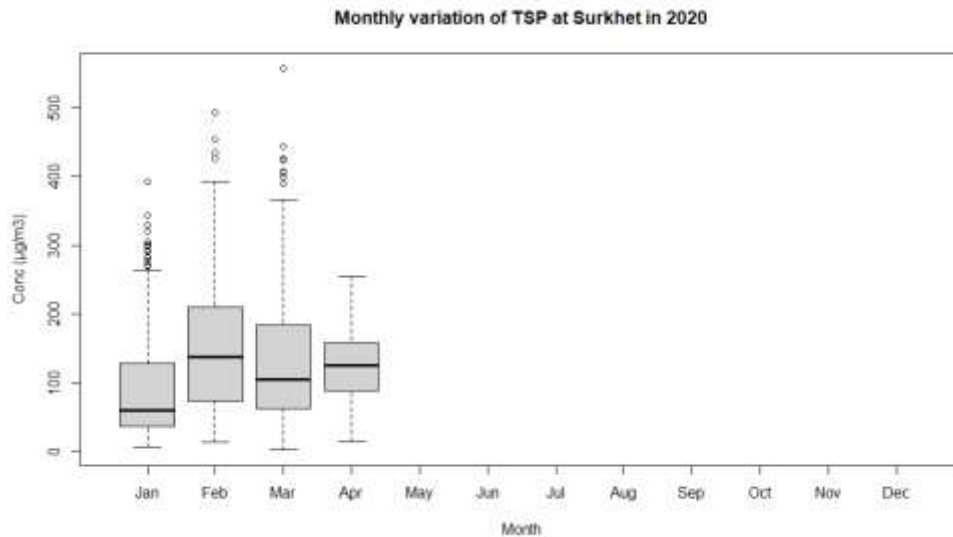


Figure 43: Monthly Variation of TSP

### Seasonal variation of TSP

Ambient concentration of average TSP during Winter (December-February), and Pre-monsoon (March-May) can be shown in the figure below. The concentration of TSP was found higher during Pre-monsoon ( $123.11 \mu\text{g}/\text{m}^3$ ) than Winter season ( $119.45 \mu\text{g}/\text{m}^3$ ).

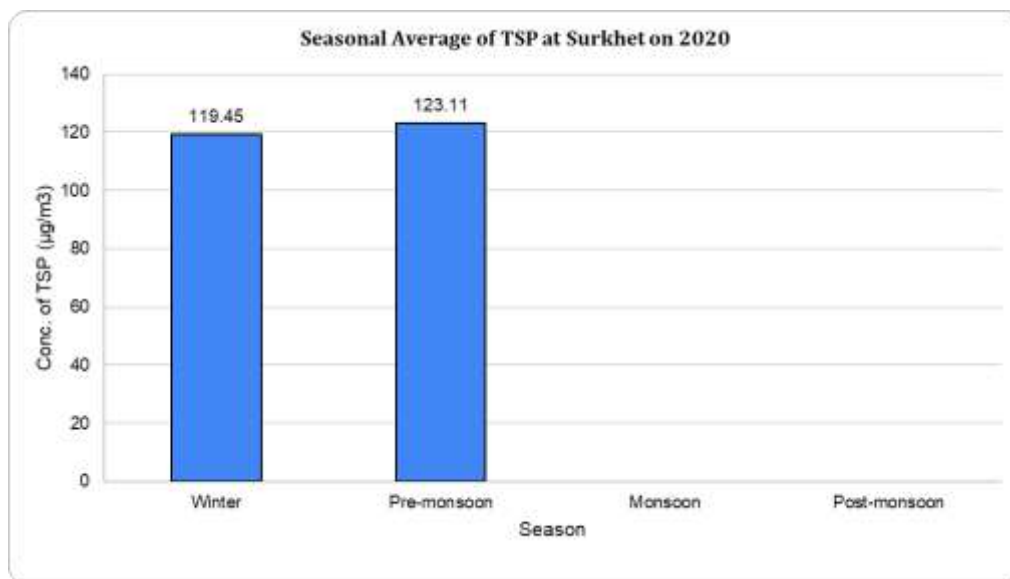


Figure 44: Seasonal Average of TSP

### Diurnal variation of TSP

The diurnal variation of average TSP concentrations can be shown in the figure below. The variation in TSP concentration was high at around 4 pm and low at 2 am.

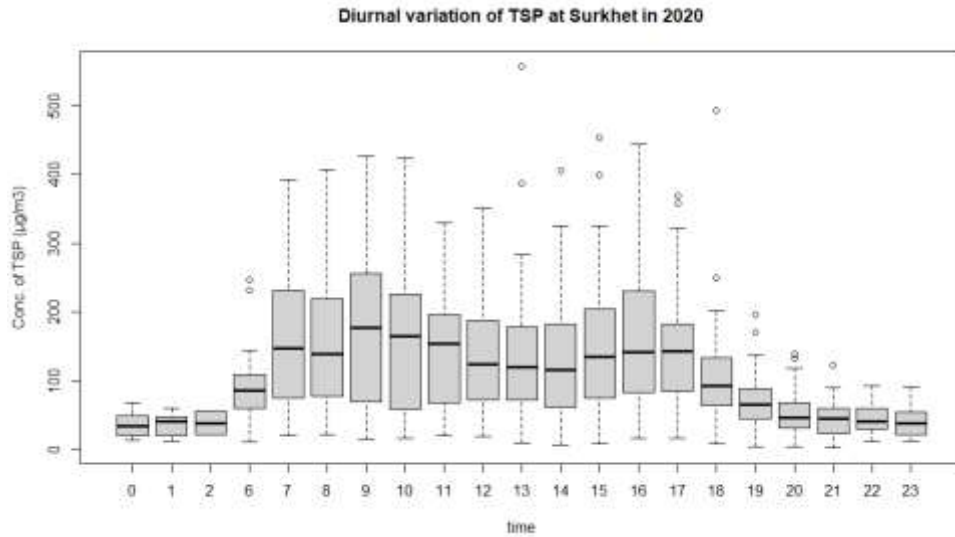


Figure 45: Diurnal Variation of TSP

### Compliance status of TSP

The total days of TSP monitored in the year 2020 counts 93 of which three (3) days exceed the NAAQS guideline.

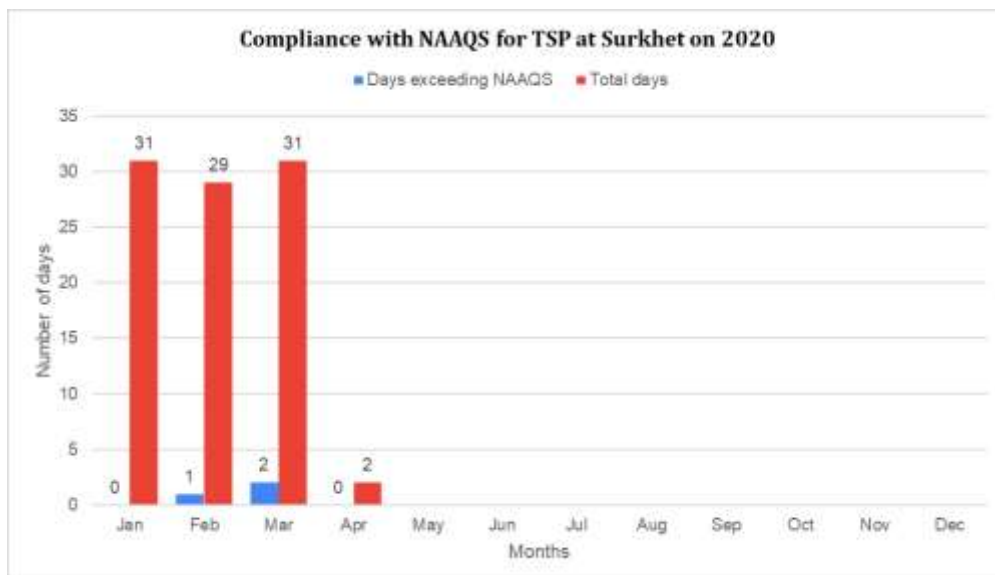


Figure 46: Compliance Status of TSP

## Annex

### PM<sub>1</sub> daily

Date	Value	Date	Value
1/1/2019		1/1/2020	59.0126
1/2/2019		1/2/2020	75.21548
1/3/2019		1/3/2020	31.80345
1/4/2019		1/4/2020	28.7002
1/5/2019		1/5/2020	27.92201
1/6/2019		1/6/2020	46.50425
1/7/2019		1/7/2020	40.0401
1/8/2019		1/8/2020	33.19
1/9/2019		1/9/2020	23.98428
1/10/2019		1/10/2020	28.77447
1/11/2019		1/11/2020	33.47274
1/12/2019		1/12/2020	45.09677
1/13/2019		1/13/2020	38.94059
1/14/2019		1/14/2020	31.72191
1/15/2019		1/15/2020	39.09087
1/16/2019		1/16/2020	21.26677
1/17/2019		1/17/2020	18.29479
1/18/2019		1/18/2020	25.70696
1/19/2019		1/19/2020	24.28136
1/20/2019		1/20/2020	34.663
1/21/2019		1/21/2020	30.304
1/22/2019		1/22/2020	22.16669
1/23/2019		1/23/2020	27.75519
1/24/2019		1/24/2020	37.00006
1/25/2019		1/25/2020	66.62229
1/26/2019		1/26/2020	70.60184
1/27/2019		1/27/2020	62.92831
1/28/2019		1/28/2020	50.43434
1/29/2019		1/29/2020	24.5065
1/30/2019		1/30/2020	22.89178
1/31/2019		1/31/2020	33.54576
2/1/2019		2/1/2020	47.89247
2/2/2019		2/2/2020	35.0732
2/3/2019		2/3/2020	34.59699
2/4/2019		2/4/2020	51.44098
2/5/2019		2/5/2020	43.70708
2/6/2019		2/6/2020	32.51417
2/7/2019		2/7/2020	50.6626
2/8/2019		2/8/2020	50.27905
2/9/2019		2/9/2020	36.80209

2/10/2019		2/10/2020	44.82347
2/11/2019		2/11/2020	47.84051
2/12/2019		2/12/2020	59.87312
2/13/2019		2/13/2020	61.44253
2/14/2019		2/14/2020	67.23473
2/15/2019		2/15/2020	75.53765
2/16/2019		2/16/2020	74.18514
2/17/2019		2/17/2020	72.54657
2/18/2019		2/18/2020	67.23204
2/19/2019		2/19/2020	64.74128
2/20/2019		2/20/2020	62.39827
2/21/2019		2/21/2020	50.48857
2/22/2019		2/22/2020	28.74269
2/23/2019		2/23/2020	32.14609
2/24/2019		2/24/2020	21.18414
2/25/2019		2/25/2020	22.72009
2/26/2019		2/26/2020	19.34219
2/27/2019		2/27/2020	22.33509
2/28/2019		2/28/2020	26.77323
3/1/2019		2/29/2020	20.06103
3/2/2019		3/1/2020	23.93416
3/3/2019		3/2/2020	18.36688
3/4/2019		3/3/2020	20.57277
3/5/2019		3/4/2020	22.33871
3/6/2019		3/5/2020	33.24032
3/7/2019		3/6/2020	37.12896
3/8/2019		3/7/2020	7.528649
3/9/2019		3/8/2020	18.55953
3/10/2019		3/9/2020	24.26651
3/11/2019		3/10/2020	29.6933
3/12/2019		3/11/2020	27.28647
3/13/2019		3/12/2020	26.5774
3/14/2019		3/13/2020	5.566415
3/15/2019		3/14/2020	5.941992
3/16/2019		3/15/2020	7.518963
3/17/2019		3/16/2020	10.02917
3/18/2019		3/17/2020	22.03628
3/19/2019		3/18/2020	25.98014
3/20/2019		3/19/2020	25.15269
3/21/2019		3/20/2020	25.61723
3/22/2019		3/21/2020	27.0161
3/23/2019		3/22/2020	27.88591
3/24/2019		3/23/2020	22.87029
3/25/2019		3/24/2020	27.55276



3/26/2019		3/25/2020	29.79971
3/27/2019		3/26/2020	18.29542
3/28/2019		3/27/2020	21.07512
3/29/2019		3/28/2020	14.17043
3/30/2019		3/29/2020	12.02098
3/31/2019		3/30/2020	14.54429
4/1/2019		3/31/2020	19.22171
4/2/2019		4/1/2020	20.89102
4/3/2019		4/2/2020	16.14754
4/4/2019		4/3/2020	
4/5/2019		4/4/2020	
4/6/2019		4/5/2020	
4/7/2019		4/6/2020	
4/8/2019		4/7/2020	
4/9/2019		4/8/2020	
4/10/2019		4/9/2020	
4/11/2019		4/10/2020	
4/12/2019		4/11/2020	
4/13/2019		4/12/2020	
4/14/2019		4/13/2020	
4/15/2019		4/14/2020	
4/16/2019		4/15/2020	
4/17/2019		4/16/2020	
4/18/2019		4/17/2020	
4/19/2019		4/18/2020	
4/20/2019		4/19/2020	
4/21/2019		4/20/2020	
4/22/2019		4/21/2020	
4/23/2019		4/22/2020	
4/24/2019		4/23/2020	
4/25/2019		4/24/2020	
4/26/2019		4/25/2020	
4/27/2019		4/26/2020	
4/28/2019		4/27/2020	
4/29/2019		4/28/2020	
4/30/2019		4/29/2020	
5/1/2019		4/30/2020	
5/2/2019		5/1/2020	
5/3/2019		5/2/2020	
5/4/2019		5/3/2020	
5/5/2019		5/4/2020	
5/6/2019		5/5/2020	
5/7/2019		5/6/2020	
5/8/2019		5/7/2020	

5/9/2019		5/8/2020	
5/10/2019		5/9/2020	
5/11/2019		5/10/2020	
5/12/2019		5/11/2020	
5/13/2019		5/12/2020	
5/14/2019		5/13/2020	
5/15/2019		5/14/2020	
5/16/2019		5/15/2020	
5/17/2019		5/16/2020	
5/18/2019		5/17/2020	
5/19/2019		5/18/2020	
5/20/2019		5/19/2020	
5/21/2019		5/20/2020	
5/22/2019		5/21/2020	
5/23/2019		5/22/2020	
5/24/2019		5/23/2020	
5/25/2019		5/24/2020	
5/26/2019		5/25/2020	
5/27/2019		5/26/2020	
5/28/2019		5/27/2020	
5/29/2019		5/28/2020	
5/30/2019		5/29/2020	
5/31/2019		5/30/2020	
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6/2/2019		6/1/2020	
6/3/2019		6/2/2020	
6/4/2019		6/3/2020	
6/5/2019		6/4/2020	
6/6/2019		6/5/2020	
6/7/2019		6/6/2020	
6/8/2019		6/7/2020	
6/9/2019		6/8/2020	
6/10/2019		6/9/2020	
6/11/2019		6/10/2020	
6/12/2019		6/11/2020	
6/13/2019		6/12/2020	
6/14/2019		6/13/2020	
6/15/2019		6/14/2020	
6/16/2019		6/15/2020	
6/17/2019		6/16/2020	
6/18/2019		6/17/2020	
6/19/2019		6/18/2020	
6/20/2019		6/19/2020	
6/21/2019		6/20/2020	

6/22/2019		6/21/2020	
6/23/2019		6/22/2020	
6/24/2019		6/23/2020	
6/25/2019		6/24/2020	
6/26/2019		6/25/2020	
6/27/2019		6/26/2020	
6/28/2019		6/27/2020	
6/29/2019		6/28/2020	
6/30/2019		6/29/2020	
7/1/2019		6/30/2020	
7/2/2019		7/1/2020	
7/3/2019		7/2/2020	
7/4/2019		7/3/2020	
7/5/2019		7/4/2020	
7/6/2019		7/5/2020	
7/7/2019		7/6/2020	
7/8/2019		7/7/2020	
7/9/2019		7/8/2020	
7/10/2019		7/9/2020	
7/11/2019		7/10/2020	
7/12/2019		7/11/2020	
7/13/2019		7/12/2020	
7/14/2019		7/13/2020	
7/15/2019	10.83844	7/14/2020	
7/16/2019	10.98046	7/15/2020	
7/17/2019	13.35279	7/16/2020	
7/18/2019	13.09736	7/17/2020	
7/19/2019	12.79514	7/18/2020	
7/20/2019	7.63625	7/19/2020	
7/21/2019	11.67757	7/20/2020	
7/22/2019	13.55361	7/21/2020	
7/23/2019	17.16458	7/22/2020	
7/24/2019	9.270556	7/23/2020	
7/25/2019	6.011806	7/24/2020	
7/26/2019	5.632292	7/25/2020	
7/27/2019	6.485833	7/26/2020	
7/28/2019	5.620972	7/27/2020	
7/29/2019	6.108472	7/28/2020	
7/30/2019	5.294861	7/29/2020	
7/31/2019	7.365625	7/30/2020	
8/1/2019	9.259888	7/31/2020	
8/2/2019	13.55778	8/1/2020	
8/3/2019	7.837439	8/2/2020	
8/4/2019	9.407547	8/3/2020	

8/5/2019	10.70285	8/4/2020	
8/6/2019	8.678249	8/5/2020	
8/7/2019	5.211111	8/6/2020	
8/8/2019	4.215657	8/7/2020	
8/9/2019	5.777038	8/8/2020	
8/10/2019	6.478958	8/9/2020	
8/11/2019	8.961918	8/10/2020	
8/12/2019	12.25046	8/11/2020	
8/13/2019	8.617445	8/12/2020	
8/14/2019	6.546945	8/13/2020	
8/15/2019	6.714306	8/14/2020	
8/16/2019	9.433618	8/15/2020	
8/17/2019	8.998195	8/16/2020	
8/18/2019	9.234653	8/17/2020	
8/19/2019	6.810972	8/18/2020	
8/20/2019	8.385118	8/19/2020	
8/21/2019	12.58806	8/20/2020	
8/22/2019	9.302778	8/21/2020	
8/23/2019	9.734183	8/22/2020	
8/24/2019	6.753333	8/23/2020	
8/25/2019	6.964722	8/24/2020	
8/26/2019	4.163889	8/25/2020	
8/27/2019	6.575625	8/26/2020	
8/28/2019	10.6875	8/27/2020	
8/29/2019	9.700725	8/28/2020	
8/30/2019	10.45722	8/29/2020	
8/31/2019	12.78152	8/30/2020	
9/1/2019	10.37986	8/31/2020	
9/2/2019	9.489306	9/1/2020	
9/3/2019	8.778403	9/2/2020	
9/4/2019	7.779722	9/3/2020	
9/5/2019	3.752222	9/4/2020	
9/6/2019	4.283066	9/5/2020	
9/7/2019	6.800379	9/6/2020	
9/8/2019	7.043542	9/7/2020	
9/9/2019	6.747083	9/8/2020	
9/10/2019	6.447536	9/9/2020	
9/11/2019	9.030686	9/10/2020	
9/12/2019	8.050927	9/11/2020	
9/13/2019	4.298528	9/12/2020	
9/14/2019	7.103401	9/13/2020	
9/15/2019	8.987907	9/14/2020	
9/16/2019	12.63665	9/15/2020	
9/17/2019	8.867672	9/16/2020	

9/18/2019	5.341453	9/17/2020	
9/19/2019	5.940586	9/18/2020	
9/20/2019	6.848432	9/19/2020	
9/21/2019	9.105661	9/20/2020	
9/22/2019	9.478842	9/21/2020	
9/23/2019	9.840146	9/22/2020	
9/24/2019	11.6287	9/23/2020	
9/25/2019	10.99808	9/24/2020	
9/26/2019	3.653738	9/25/2020	
9/27/2019	8.922769	9/26/2020	
9/28/2019	3.14585	9/27/2020	
9/29/2019	4.535098	9/28/2020	
9/30/2019	4.63994	9/29/2020	
10/1/2019	4.959523	9/30/2020	
10/2/2019	11.16896	10/1/2020	
10/3/2019	10.15384	10/2/2020	
10/4/2019	14.56229	10/3/2020	
10/5/2019	26.24195	10/4/2020	
10/6/2019	23.77205	10/5/2020	
10/7/2019	23.88983	10/6/2020	
10/8/2019	25.05534	10/7/2020	
10/9/2019	25.95254	10/8/2020	
10/10/2019	28.00336	10/9/2020	
10/11/2019	29.32292	10/10/2020	
10/12/2019	32.1727	10/11/2020	
10/13/2019	37.89165	10/12/2020	
10/14/2019	41.88213	10/13/2020	
10/15/2019	38.44095	10/14/2020	
10/16/2019	30.505	10/15/2020	
10/17/2019	26.98361	10/16/2020	
10/18/2019	33.73565	10/17/2020	
10/19/2019	31.81711	10/18/2020	
10/20/2019	35.02396	10/19/2020	
10/21/2019	33.4	10/20/2020	
10/22/2019		10/21/2020	
10/23/2019		10/22/2020	
10/24/2019		10/23/2020	
10/25/2019		10/24/2020	
10/26/2019		10/25/2020	
10/27/2019		10/26/2020	
10/28/2019		10/27/2020	
10/29/2019		10/28/2020	
10/30/2019		10/29/2020	
10/31/2019		10/30/2020	

11/1/2019		10/31/2020	
11/2/2019		11/1/2020	
11/3/2019		11/2/2020	
11/4/2019		11/3/2020	
11/5/2019		11/4/2020	
11/6/2019		11/5/2020	
11/7/2019		11/6/2020	
11/8/2019		11/7/2020	
11/9/2019		11/8/2020	
11/10/2019		11/9/2020	
11/11/2019		11/10/2020	
11/12/2019		11/11/2020	
11/13/2019		11/12/2020	
11/14/2019		11/13/2020	
11/15/2019		11/14/2020	
11/16/2019		11/15/2020	
11/17/2019		11/16/2020	
11/18/2019		11/17/2020	
11/19/2019		11/18/2020	
11/20/2019		11/19/2020	
11/21/2019		11/20/2020	
11/22/2019		11/21/2020	
11/23/2019		11/22/2020	
11/24/2019		11/23/2020	
11/25/2019		11/24/2020	
11/26/2019		11/25/2020	
11/27/2019		11/26/2020	
11/28/2019		11/27/2020	
11/29/2019		11/28/2020	
11/30/2019		11/29/2020	
12/1/2019		11/30/2020	
12/2/2019		12/1/2020	
12/3/2019		12/2/2020	
12/4/2019		12/3/2020	
12/5/2019		12/4/2020	
12/6/2019		12/5/2020	
12/7/2019		12/6/2020	
12/8/2019		12/7/2020	
12/9/2019		12/8/2020	
12/10/2019		12/9/2020	
12/11/2019		12/10/2020	
12/12/2019		12/11/2020	
12/13/2019		12/12/2020	
12/14/2019		12/13/2020	

12/15/2019	24.22038	12/14/2020	
12/16/2019	29.22032	12/15/2020	
12/17/2019	29.93151	12/16/2020	
12/18/2019	43.64747	12/17/2020	
12/19/2019	32.99501	12/18/2020	
12/20/2019	39.11052	12/19/2020	
12/21/2019	33.5727	12/20/2020	
12/22/2019	26.65031	12/21/2020	
12/23/2019	27.20018	12/22/2020	
12/24/2019	33.70411	12/23/2020	
12/25/2019	35.06148	12/24/2020	
12/26/2019	43.05388	12/25/2020	
12/27/2019	57.79272	12/26/2020	
12/28/2019	46.21181	12/27/2020	
12/29/2019	51.29524	12/28/2020	
12/30/2019	48.51538	12/29/2020	
12/31/2019	48.58493	12/30/2020	
		12/31/2020	

**For PM2.5**

Date	Value	Date	Value
1/1/2019		1/1/2020	68.23772
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7/31/2019	242.6326	7/30/2020	
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8/2/2019	236.057	8/1/2020	
8/3/2019	238.3437	8/2/2020	
8/4/2019	266.3055	8/3/2020	
8/5/2019	213.6174	8/4/2020	
8/6/2019	325.9574	8/5/2020	
8/7/2019	181.4049	8/6/2020	
8/8/2019	177.2684	8/7/2020	
8/9/2019	249.4232	8/8/2020	
8/10/2019	222.1694	8/9/2020	
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8/17/2019	182.9847	8/16/2020	
8/18/2019	189.7181	8/17/2020	
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8/28/2019	300.2914	8/27/2020	
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9/8/2019	154.5961	9/7/2020	
9/9/2019	114.0937	9/8/2020	

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9/11/2019	196.8336	9/10/2020	
9/12/2019	118.8132	9/11/2020	
9/13/2019	100.9353	9/12/2020	
9/14/2019	118.1717	9/13/2020	
9/15/2019	165.1607	9/14/2020	
9/16/2019	267.1371	9/15/2020	
9/17/2019	241.9471	9/16/2020	
9/18/2019	64.85149	9/17/2020	
9/19/2019	126.0885	9/18/2020	
9/20/2019	216.9545	9/19/2020	
9/21/2019	277.7734	9/20/2020	
9/22/2019	277.297	9/21/2020	
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12/15/2019	56.09389	12/14/2020	
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12/18/2019	68.85489	12/17/2020	
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12/20/2019	135.8912	12/19/2020	
12/21/2019	97.56178	12/20/2020	
12/22/2019	122.6553	12/21/2020	
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12/24/2019	129.2423	12/23/2020	
12/25/2019	130.2376	12/24/2020	
12/26/2019	168.4033	12/25/2020	
12/27/2019	143.5492	12/26/2020	
12/28/2019	174.6782	12/27/2020	
12/29/2019	181.2917	12/28/2020	
12/30/2019	205.2907	12/29/2020	
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