

**Kerala State Pollution Control Board**  
Pattom P.O., Thiruvananthapuram - 695 004  
Head Office: 0471 - 2318153, 54, 55, 56, 2312910



## **Continuous Ambient Air Quality Monitoring Station**



**Quarterly Report (March to May 2023)**

# **CAAQMS**

**Operated and Maintained by:-**  
**Ecotech Monitoring Solutions P Ltd**





# Kerala State Pollution Control Board

## Continuous Ambient Air Quality Monitoring Station, Trivandrum

### Monthly Report on Criteria Pollutants

March 2023

Date/Day	CO (mg/m <sup>3</sup> )	Ozone (µg/m <sup>3</sup> )	NO (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>X</sub> (µg/m <sup>3</sup> )	NH <sub>3</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )
01/03/2023 Wed	0.91	25.1	0.9	6.7	7.7	9.0	8.2	40	65
02/03/2023 Thu	1.25	28.6	0.9	6.7	7.7	9.0	8.3	25	43
03/03/2023 Fri	0.78	30.1	0.9	6.7	7.6	9.1	6.9	35	57
04/03/2023 Sat	1.01	24.0	0.9	6.7	7.6	9.1	8.1	32	52
05/03/2023 Sun	0.67	21.2	0.9	6.7	7.6	9.1	7.3	30	51
06/03/2023 Mon	0.79	22.7	0.9	6.7	7.7	9.1	8.5	32	52
07/03/2023 Tue	0.74	23.7	0.9	6.7	7.7	9.1	12.7	43	68
08/03/2023 Wed	1.07	15.8	0.9	6.8	7.7	9.0	8.8	51	80
09/03/2023 Thu	1.03	17.2	0.9	6.7	7.6	9.1	10.6	36	58
10/03/2023 Fri	1.14	17.3	1.5	6.4	7.9	8.8	8.1	37	60
11/03/2023 Sat	0.95	23.2	1.5	6.6	8.1	8.8	8.2	39	63
12/03/2023 Sun	0.64	23.3	0.8	7.0	7.8	8.2	10.4	34	56
13/03/2023 Mon	0.91	19.1	0.8	6.6	7.4	8.8	8.0	28	47
14/03/2023 Tue	0.91	20.4	2.2	5.4	7.6	17.1	12.5	39	62
15/03/2023 Wed	0.85	17.0	1.9	5.3	7.2	15.9	9.4	42	72
16/03/2023 Thu	0.97	14.0	2.3	5.4	7.7	18.5	9.0	42	73
17/03/2023 Fri	0.94	15.6	1.2	6.4	7.6	5.9	10.3	27	53
18/03/2023 Sat	0.71	16.1	1.6	5.6	7.2	15.3	6.6	15	35
19/03/2023 Sun	0.49	15.1	2.3	5.7	8.0	16.0	11.1	11	23
20/03/2023 Mon	0.81	14.2	1.6	5.4	7.0	8.8	7.2	19	41
21/03/2023 Tue	0.55	15.7	1.9	5.3	7.2	5.7	14.8	20	43
22/03/2023 Wed	0.56	15.5	2.0	5.2	7.2	4.4	24.5	15	47
23/03/2023 Thu	1.41	14.9	2.0	5.2	7.2	4.4	8.8	17	35
24/03/2023 Fri	0.53	14.2	1.8	5.7	7.6	5.7	4.6	12	36
25/03/2023 Sat	0.52	14.0	1.1	8.6	9.7	4.1	6.6	11	36
26/03/2023 Sun	0.41	14.4	1.0	8.7	9.7	3.8	8.9	8	28
27/03/2023 Mon	0.42	16.2	1.0	8.7	9.7	3.8	8.7	11	44
28/03/2023 Tue	0.85	17.3	1.0	8.7	9.7	3.7	7.5	19	67
29/03/2023 Wed	0.73	15.7	1.0	8.8	9.7	3.7	8.8	21	59
30/03/2023 Thu	0.69	20.3	1.0	8.8	9.7	3.7	7.3	16	64
31/03/2023 Fri	0.45	13.1	1.0	8.7	9.7	3.8	9.3	13	40
<b>Average</b>	<b>0.80</b>	<b>18.5</b>	<b>1.3</b>	<b>6.7</b>	<b>8.0</b>	<b>8.4</b>	<b>9.4</b>	<b>26</b>	<b>52</b>
<b>Minimum</b>	<b>0.41</b>	<b>13.1</b>	<b>0.8</b>	<b>5.2</b>	<b>7.0</b>	<b>3.7</b>	<b>4.6</b>	<b>8</b>	<b>23</b>
<b>Maximum</b>	<b>1.41</b>	<b>30.1</b>	<b>2.3</b>	<b>8.8</b>	<b>9.7</b>	<b>18.5</b>	<b>24.5</b>	<b>51</b>	<b>80</b>
<b>Capture</b>	<b>94.8</b>	<b>99.6</b>	<b>99.6</b>	<b>99.6</b>	<b>99.6</b>	<b>99.6</b>	<b>99.5</b>	<b>99.5</b>	<b>99.5</b>



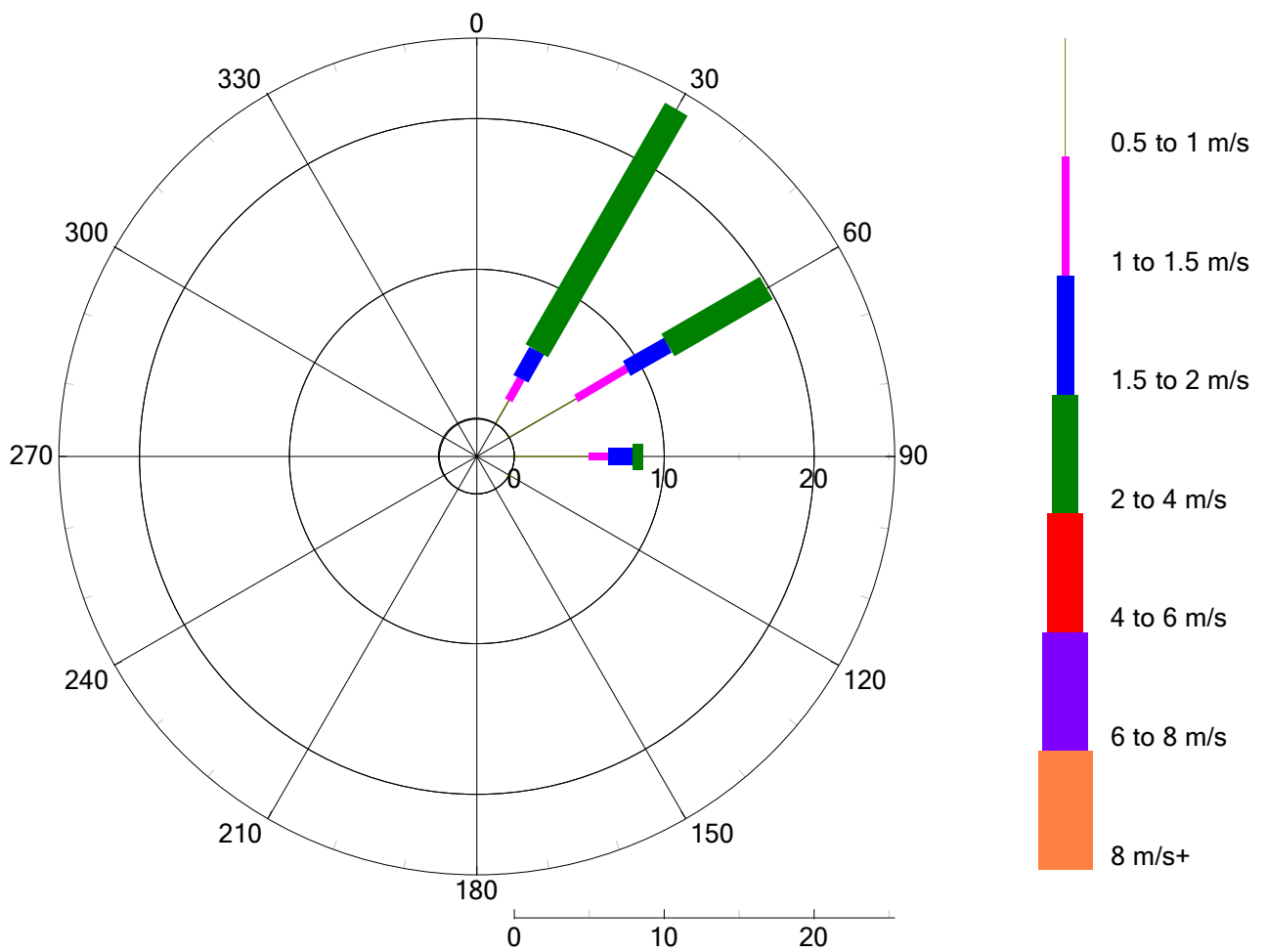


# Kerala State Pollution Control Board

Continuous Ambient Air Quality Monitoring Station, Trivandrum

Wind Rose

March 2023



47.1% calm  
99.1% valid data present





# Kerala State Pollution Control Board

## Continuous Ambient Air Quality Monitoring Station, Trivandrum

### Monthly Report on Meteorological Parameters

April 2023

Date/Day	AT (°C)	RH (%)	WS (m/s)	WD (deg.)	SR (W/m <sup>2</sup> )	BP (mmHg)	RF (mm)
01/04/2023 Sat	26.4	70	1.5	73	197	756	0.0
02/04/2023 Sun	26.4	69	1.5	65	182	755	0.0
03/04/2023 Mon	26.2	70	1.3	70	167	754	0.5
04/04/2023 Tue	25.2	73	1.0	78	137	753	9.0
05/04/2023 Wed	25.9	72	1.0	73	183	753	0.0
06/04/2023 Thu	26.1	73	1.2	73	201	756	83.0
07/04/2023 Fri	26.2	72	0.9	81	203	757	0.0
08/04/2023 Sat	26.6	71	1.0	81	176	757	0.0
09/04/2023 Sun	25.7	72	0.8	80	161	758	0.0
10/04/2023 Mon	26.1	73	1.2	71	203	758	0.0
11/04/2023 Tue	26.6	70	1.1	67	185	758	0.0
12/04/2023 Wed	26.9	70	1.1	67	179	758	0.0
13/04/2023 Thu	27.1	72	1.2	61	183	758	0.0
14/04/2023 Fri	27.4	72	1.3	64	189	758	0.0
15/04/2023 Sat	27.3	71	1.6	65	182	757	0.0
16/04/2023 Sun	27.2	71	1.4	63	183	757	0.0
17/04/2023 Mon	27.4	70	1.4	62	189	757	0.0
18/04/2023 Tue	27.4	72	1.3	69	194	757	1.5
19/04/2023 Wed	27.3	72	1.3	65	188	756	0.0
20/04/2023 Thu	27.3	73	1.4	68	176	755	3.0
21/04/2023 Fri	27.1	72	1.2	61	168	755	10.0
22/04/2023 Sat	27.6	68	1.6	67	195	755	0.0
23/04/2023 Sun	27.6	68	1.5	71	197	755	0.0
24/04/2023 Mon	27.6	67	1.1	73	196	756	0.0
25/04/2023 Tue	26.8	72	0.8	78	147	756	4.0
26/04/2023 Wed	25.6	75	0.8	88	130	756	46.0
27/04/2023 Thu	26.1	75	0.7	75	145	756	2.5
28/04/2023 Fri	25.8	76	0.7	79	131	757	2.0
29/04/2023 Sat	24.9	79	0.7	80	114	756	2.0
30/04/2023 Sun	25.8	76	0.7	85	145	755	49.0
<b>Average</b>	<b>26.6</b>	<b>72</b>	<b>1.1</b>	<b>72</b>	<b>174</b>	<b>756</b>	
<b>Minimum</b>	<b>24.9</b>	<b>67</b>	<b>0.7</b>	<b>61</b>	<b>114</b>	<b>753</b>	<b>0.0</b>
<b>Maximum</b>	<b>27.6</b>	<b>79</b>	<b>1.6</b>	<b>88</b>	<b>203</b>	<b>758</b>	<b>83.0</b>
<b>Total</b>							<b>212.5</b>
<b>Capture</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>99.9</b>	<b>100.0</b>

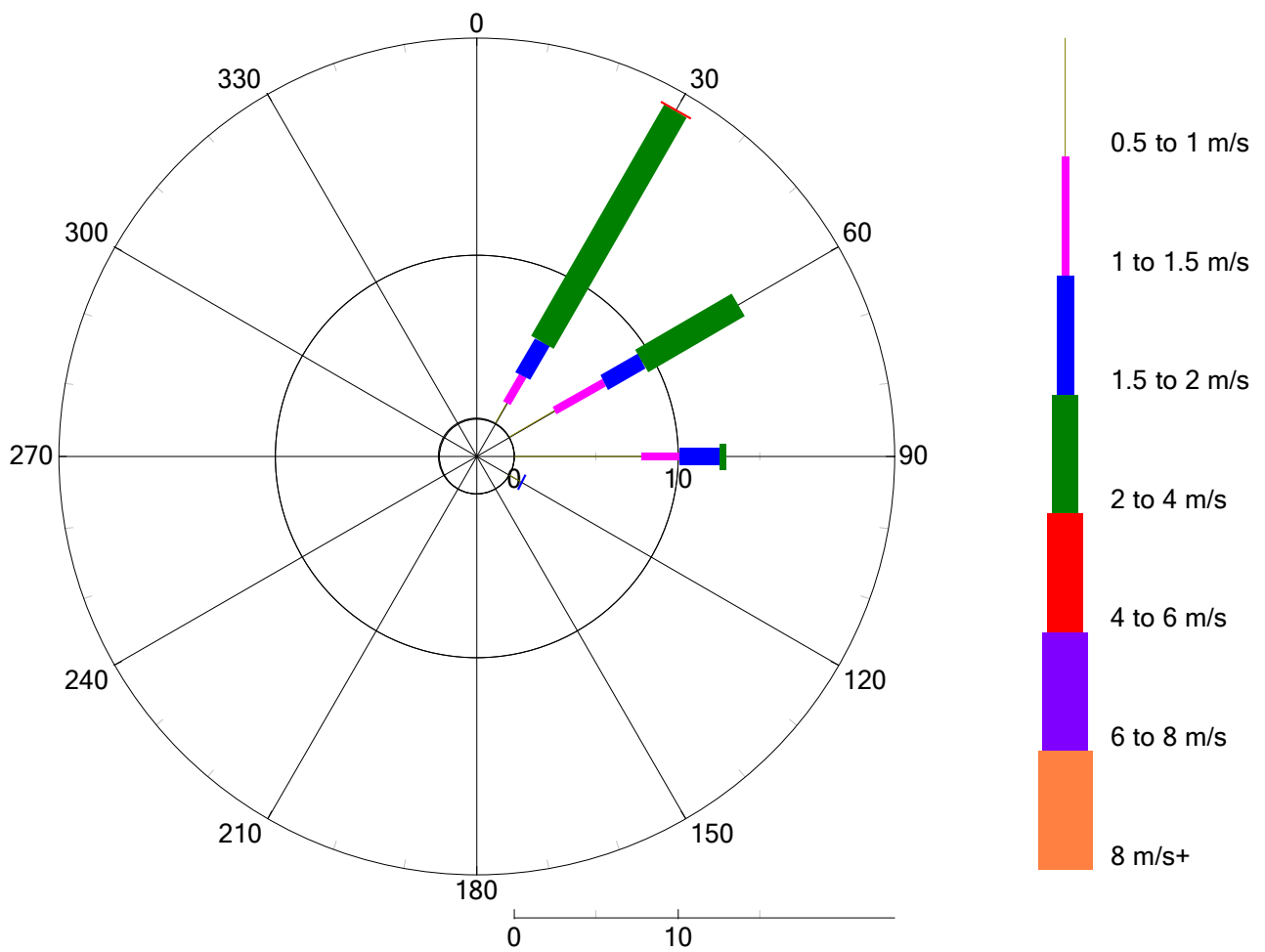


# Kerala State Pollution Control Board

Continuous Ambient Air Quality Monitoring Station, Trivandrum

Wind Rose

April 2023



47.9% calm  
100.0% valid data present







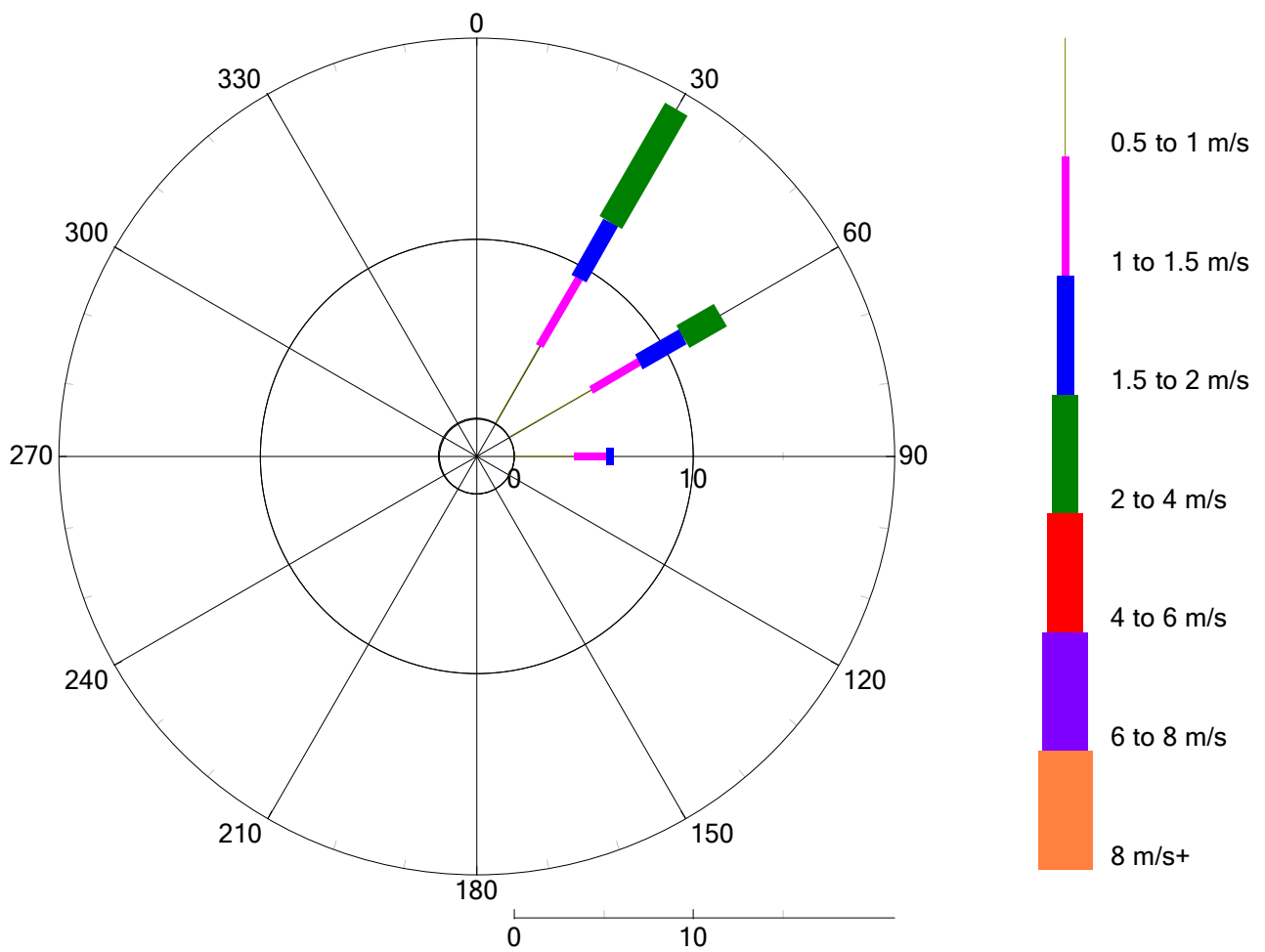


# Kerala State Pollution Control Board

Continuous Ambient Air Quality Monitoring Station, Trivandrum

Wind Rose

May 2023



60.6% calm  
99.9% valid data present



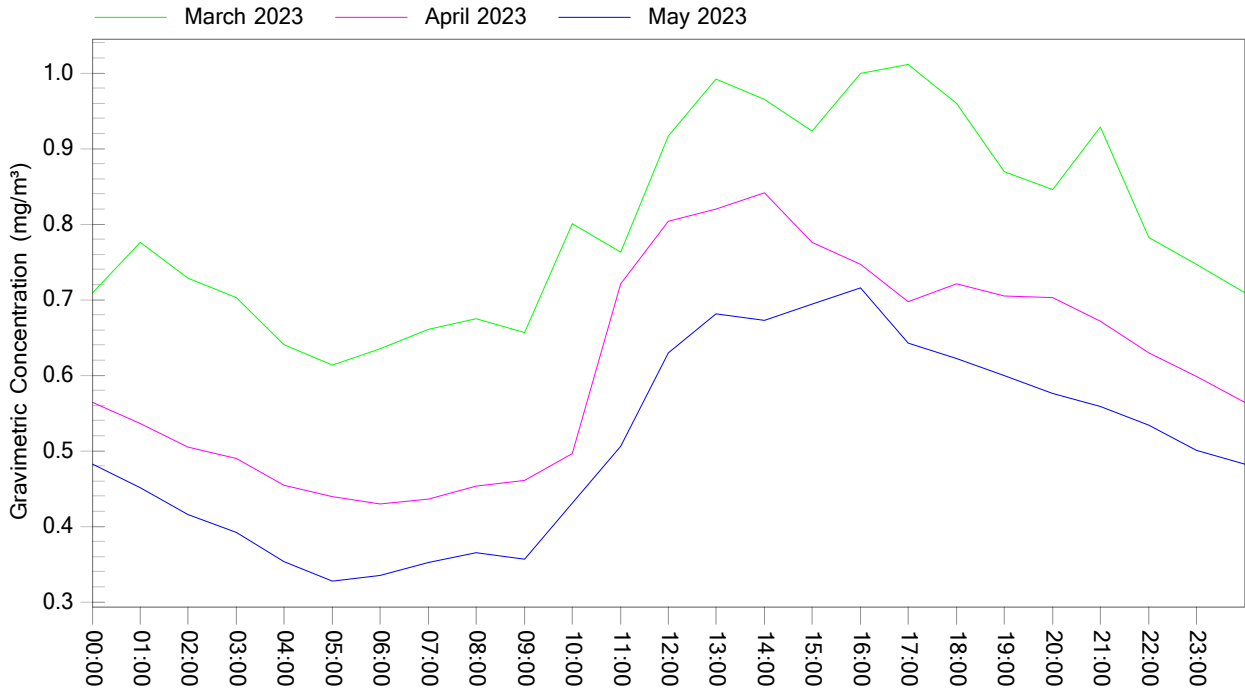
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## Continuous Ambient Air Quality Monitoring Station, Trivandrum

### Trend Gaps for CO

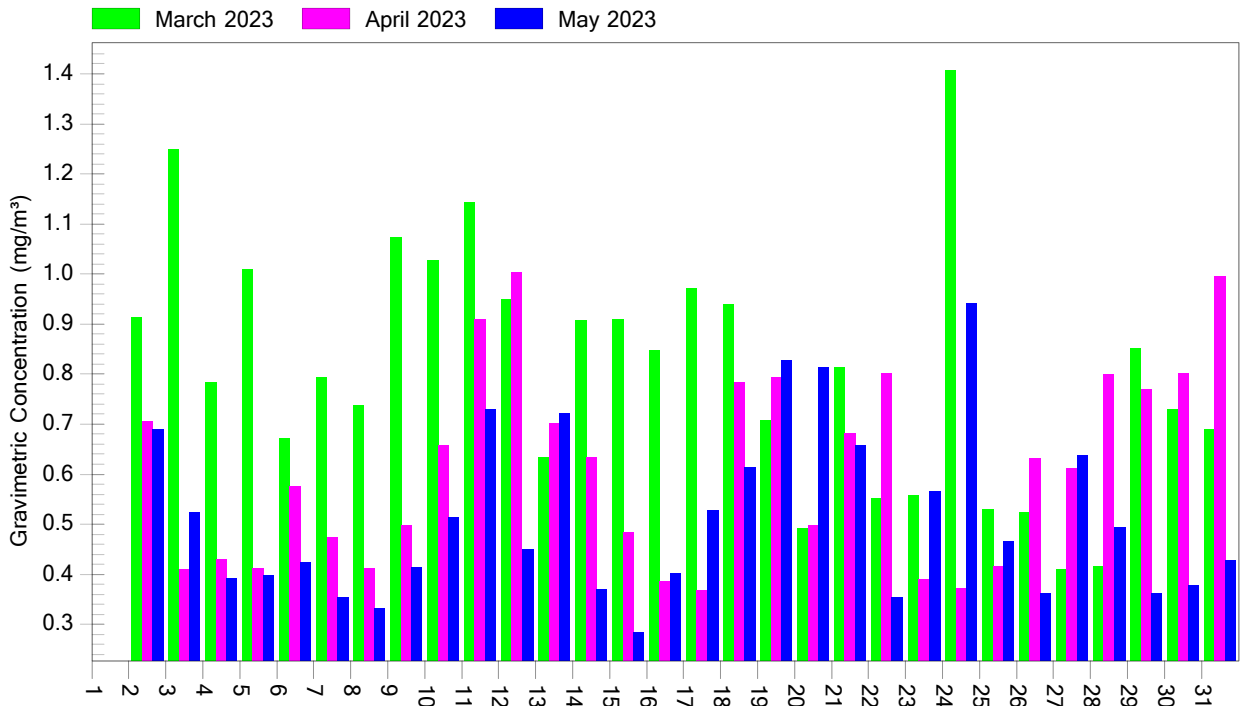
### CO(mg/m<sup>3</sup>) Line Graph

3/1/2023 to 5/31/2023



### CO(mg/m<sup>3</sup>) Bar Graph

3/1/2023 to 5/31/2023





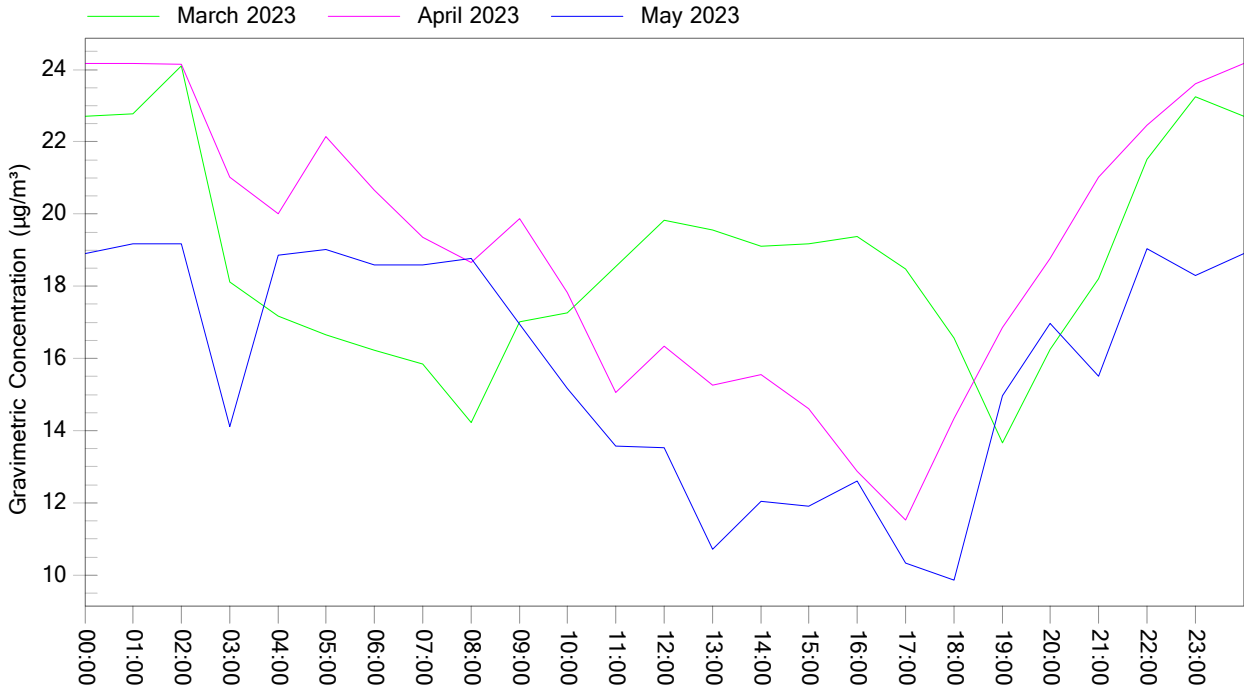
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## Continuous Ambient Air Quality Monitoring Station, Trivandrum

### Trend Gaphs for Ozone

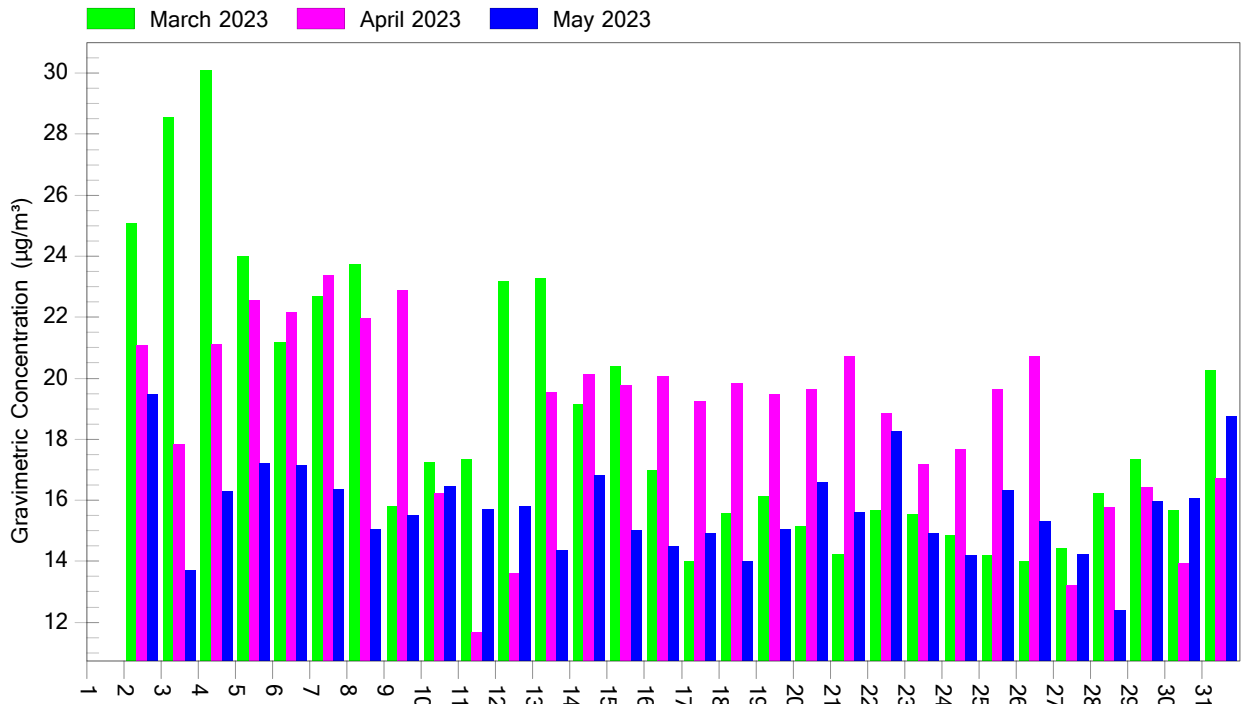
### O<sub>3</sub>( $\mu\text{g}/\text{m}^3$ ) Line Graph

3/1/2023 to 5/31/2023



### O<sub>3</sub>( $\mu\text{g}/\text{m}^3$ ) Bar Graph

3/1/2023 to 5/31/2023





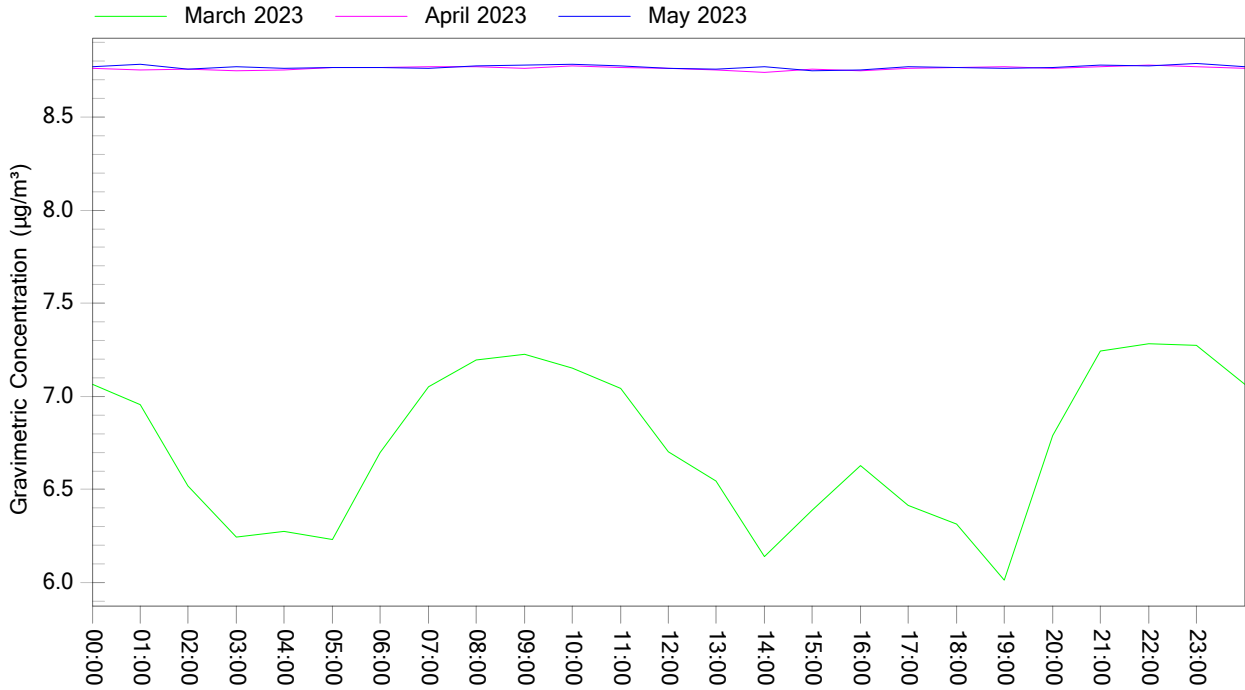
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## Continuous Ambient Air Quality Monitoring Station, Trivandrum

### Trend Gaphs for NO2

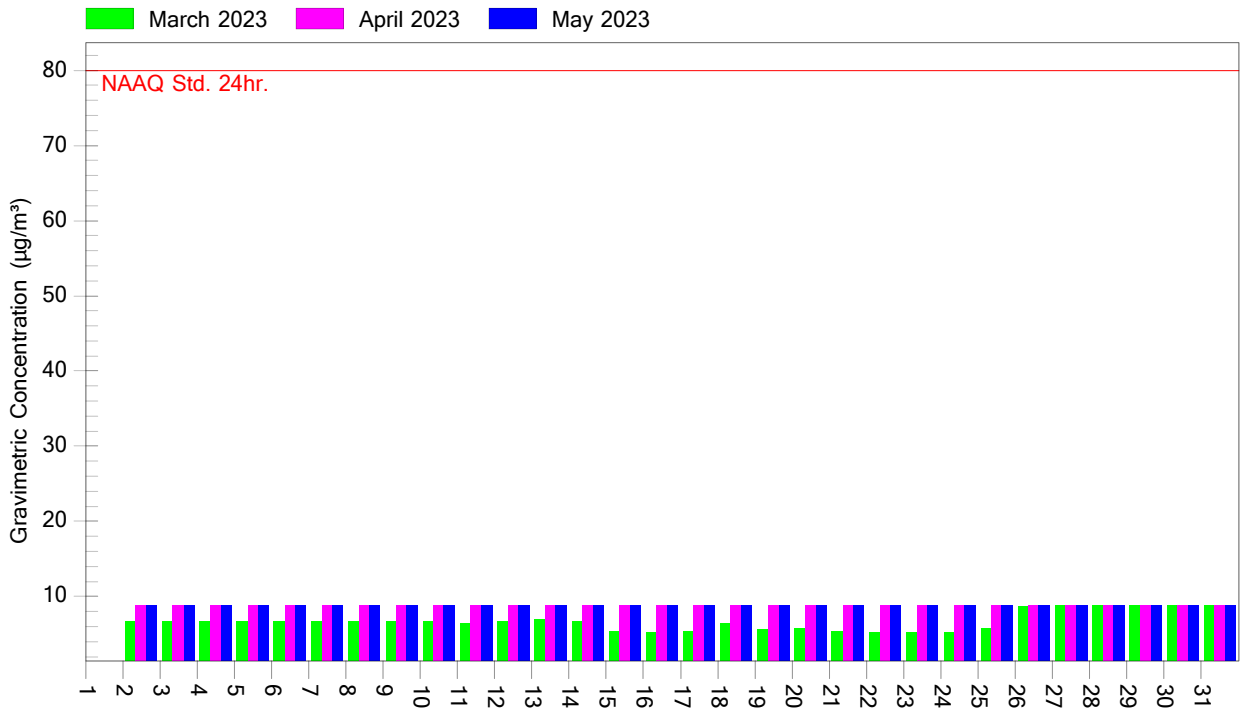
#### NO<sub>2</sub>( $\mu\text{g}/\text{m}^3$ ) Line Graph

3/1/2023 to 5/31/2023



#### NO<sub>2</sub>( $\mu\text{g}/\text{m}^3$ ) Bar Graph

3/1/2023 to 5/31/2023





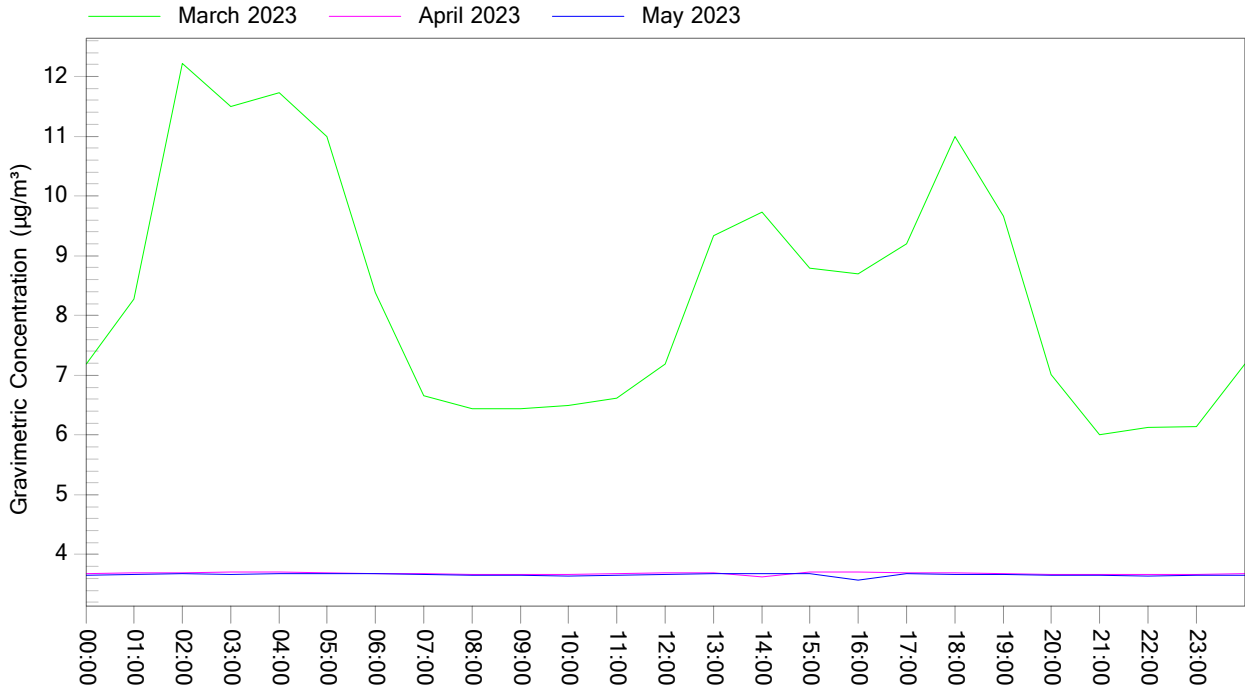
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## Continuous Ambient Air Quality Monitoring Station, Trivandrum

### Trend Gaphs for NH3

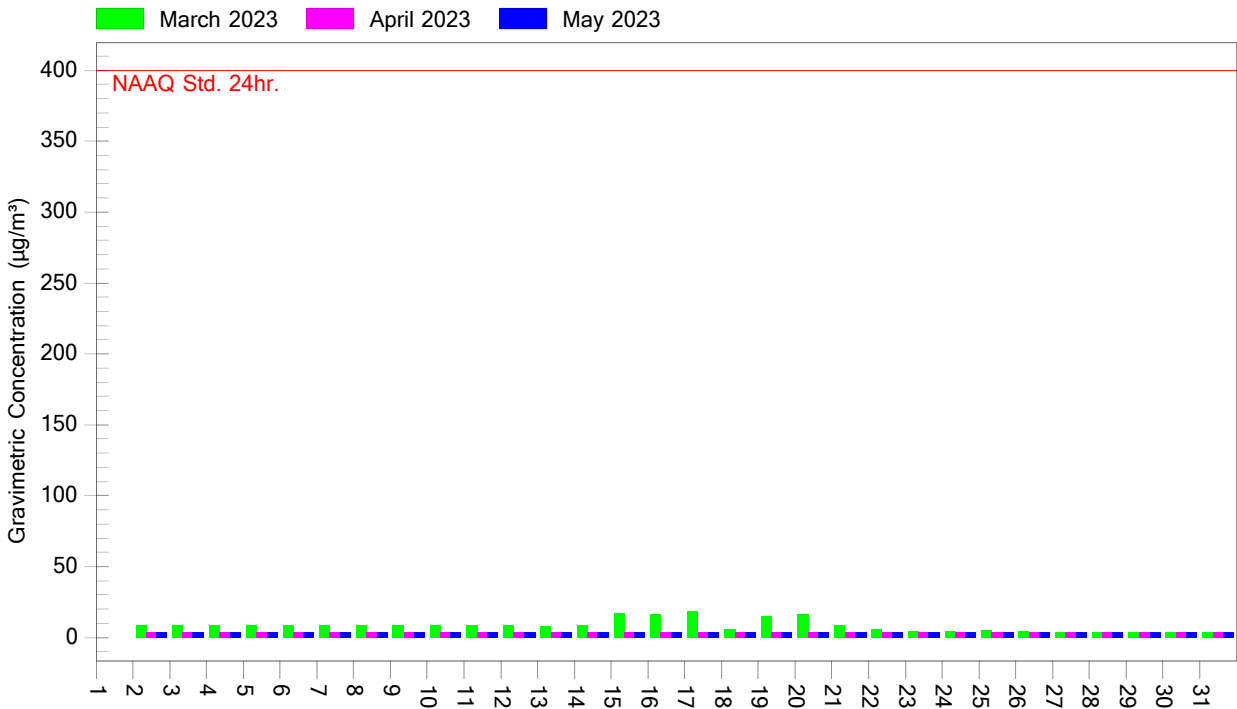
#### NH3( $\mu\text{g}/\text{m}^3$ ) Line Graph

3/1/2023 to 5/31/2023



#### NH3( $\mu\text{g}/\text{m}^3$ ) Bar Graph

3/1/2023 to 5/31/2023





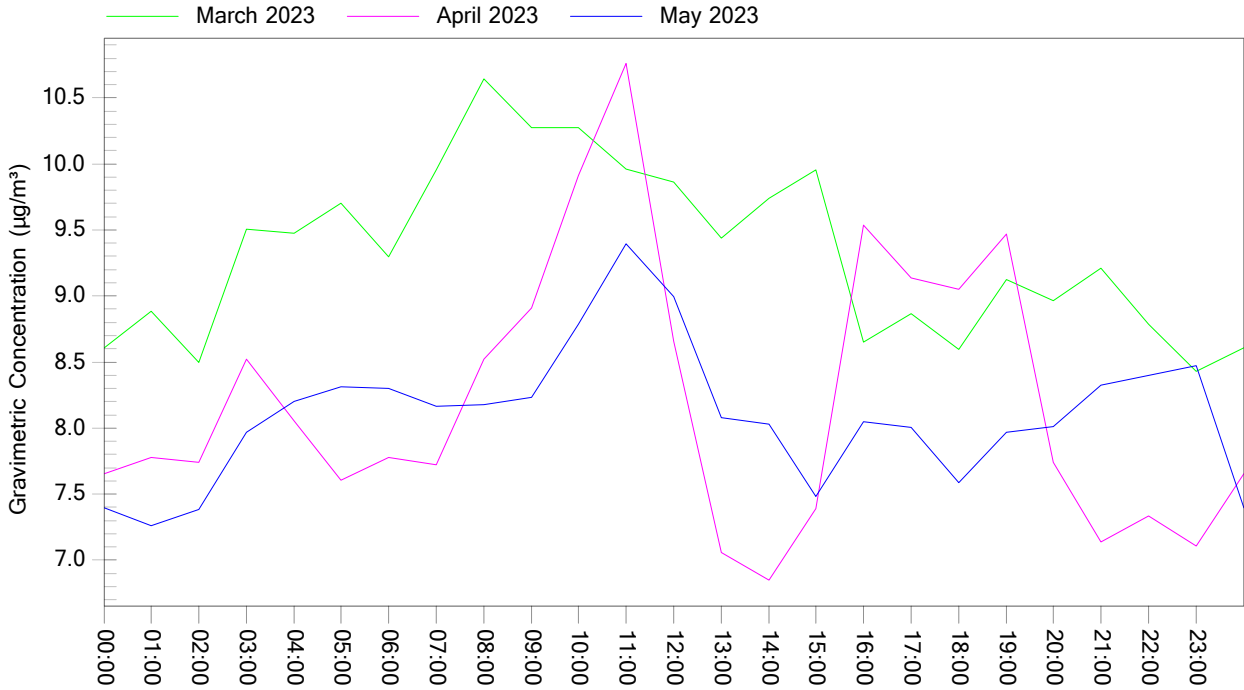
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## Continuous Ambient Air Quality Monitoring Station, Trivandrum

### Trend Gaphs for SO2

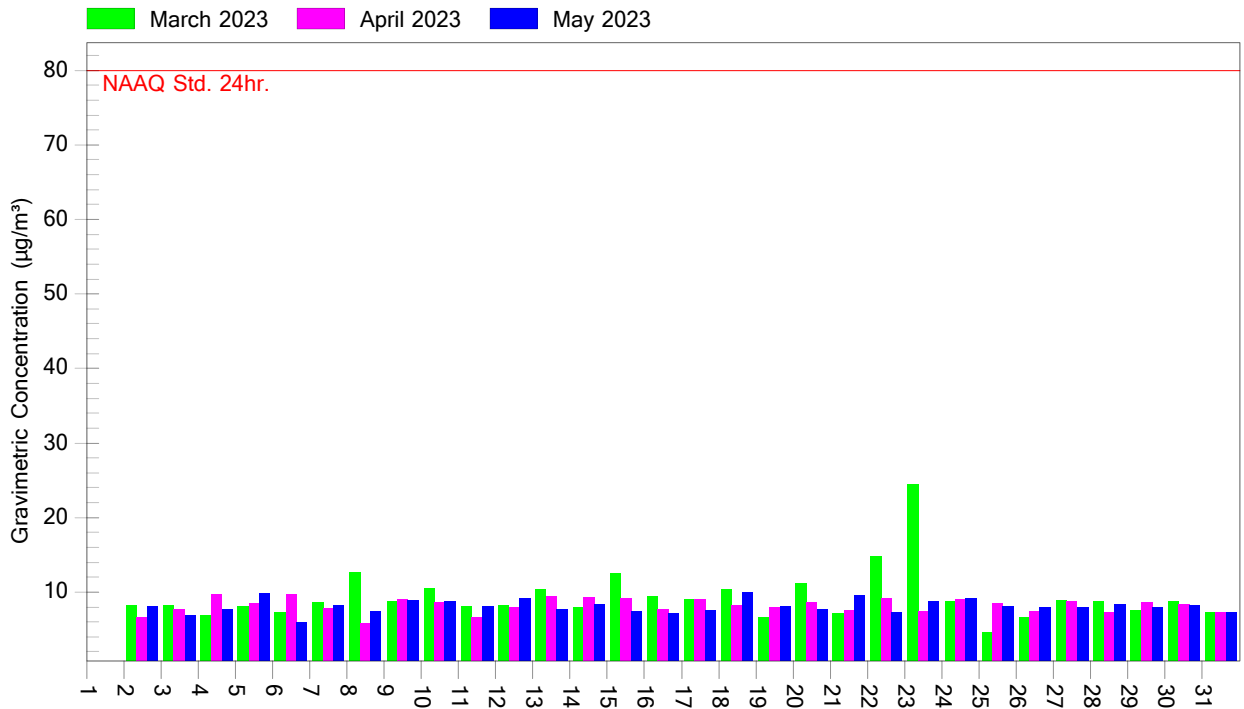
#### SO<sub>2</sub>( $\mu\text{g}/\text{m}^3$ ) Line Graph

3/1/2023 to 5/31/2023



#### SO<sub>2</sub>( $\mu\text{g}/\text{m}^3$ ) Bar Graph

3/1/2023 to 5/31/2023





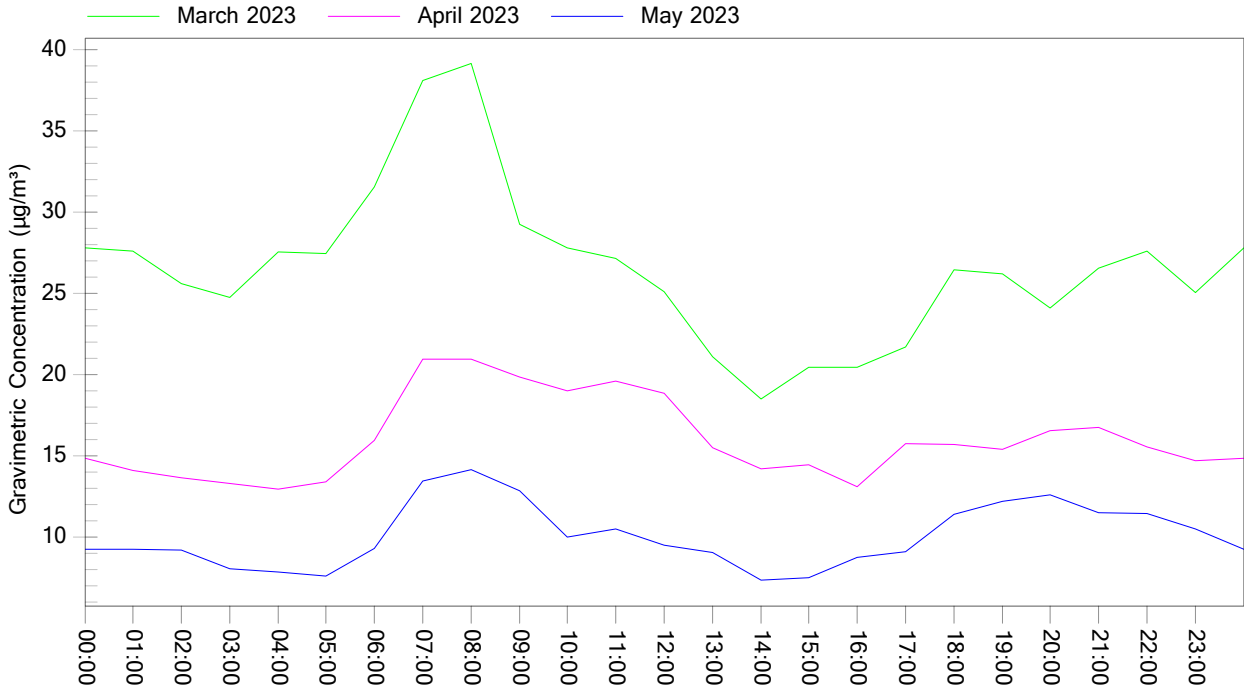
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## Continuous Ambient Air Quality Monitoring Station, Trivandrum

### Trend Gaphs for PM2.5

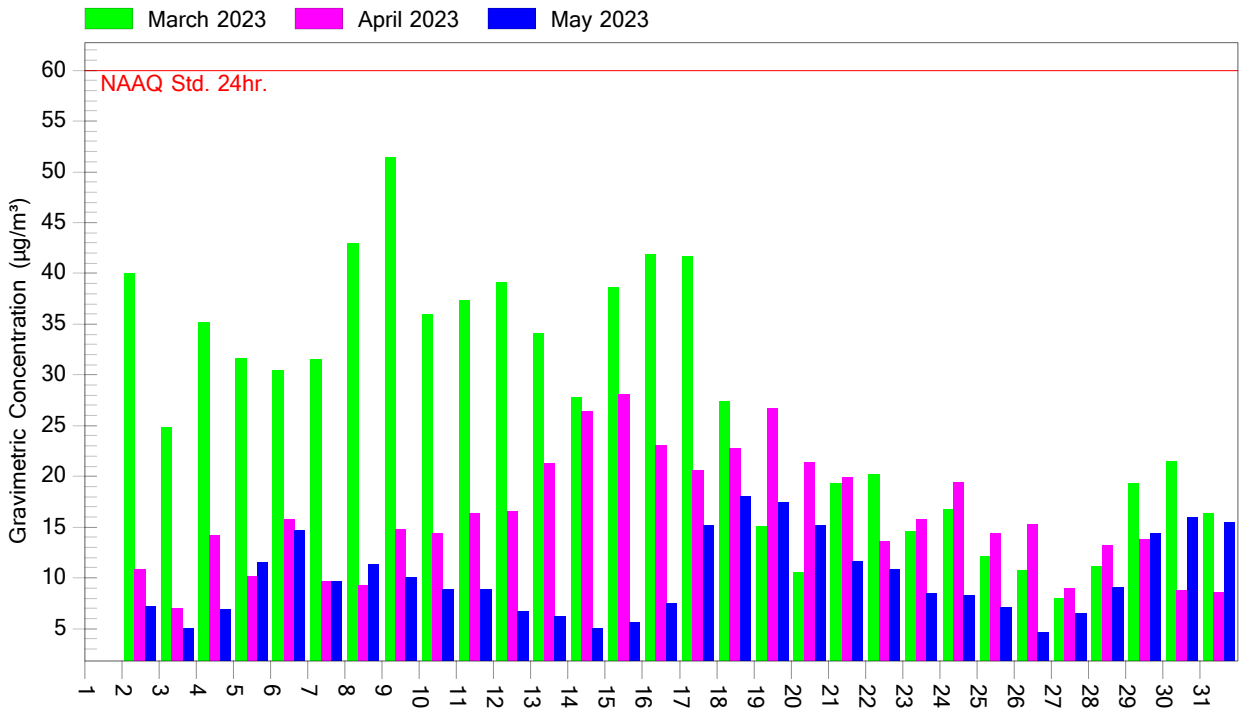
### PM2.5( $\mu\text{g}/\text{m}^3$ ) Line Graph

3/1/2023 to 5/31/2023



### PM2.5( $\mu\text{g}/\text{m}^3$ ) Bar Graph

3/1/2023 to 5/31/2023







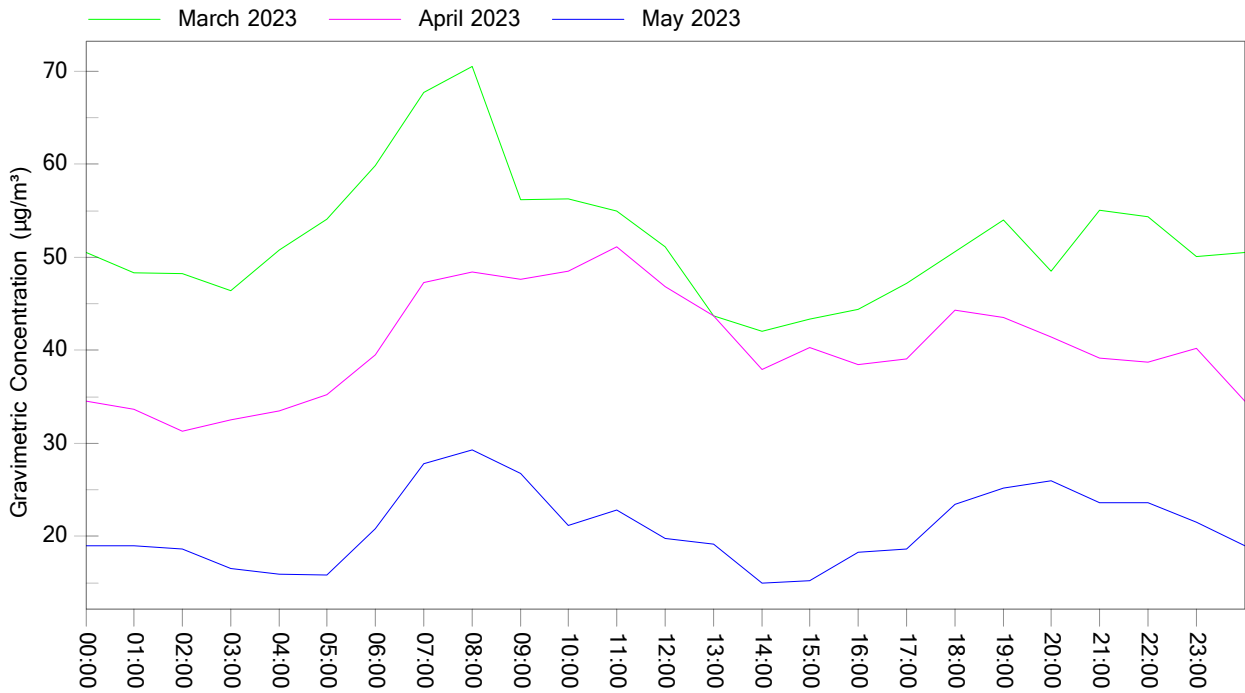
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## Continuous Ambient Air Quality Monitoring Station, Trivandrum

### Trend Gaphs for PM10

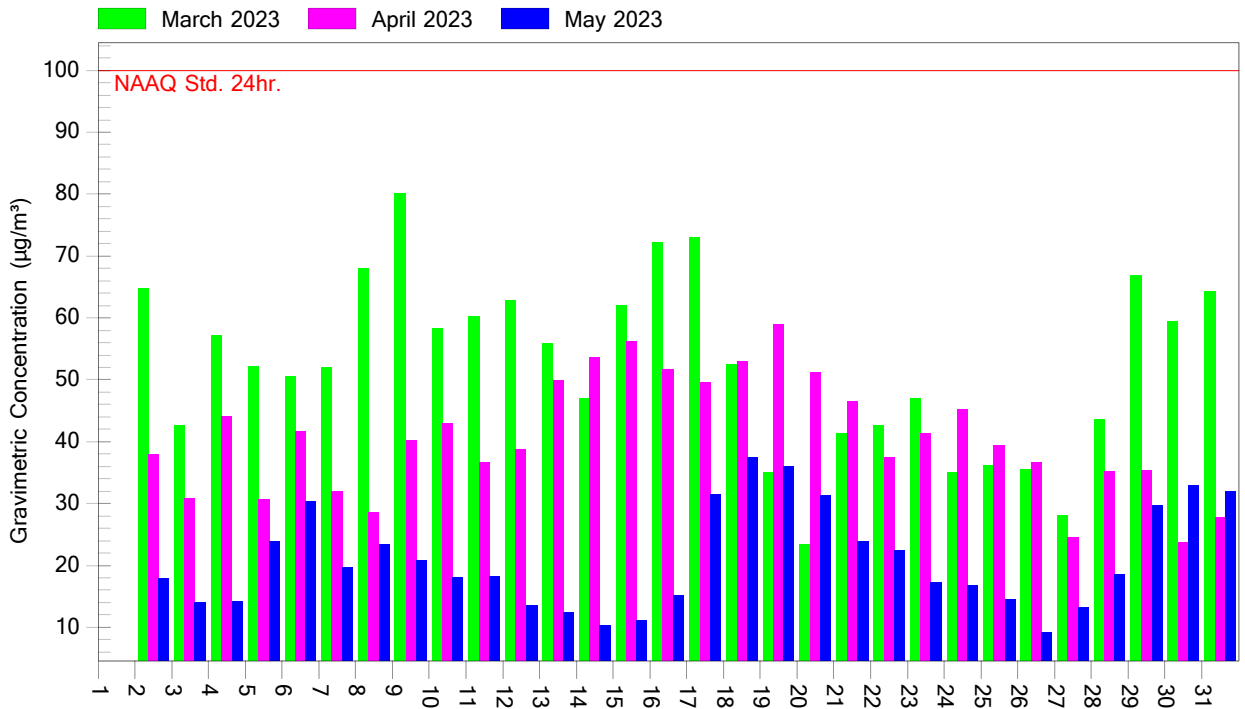
### PM10( $\mu\text{g}/\text{m}^3$ ) Line Graph

3/1/2023 to 5/31/2023



### PM10( $\mu\text{g}/\text{m}^3$ ) Bar Graph

3/1/2023 to 5/31/2023



**Prepared by: -**  
**Ecotech Monitoring Solutions P Ltd**

**ECOTECH Monitoring Solutions Pvt. Ltd.**

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