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Editorial

Air pollution is often called a “silent killer” because its effects are not always immediately visible, yet they are widespread and long-lasting.

On the human health side, polluted air contains harmful substances like fine particulate matter (PM2.5), nitrogen dioxide, sulfur dioxide, and ozone. These tiny particles can penetrate deep into the lungs and even enter the bloodstream. Over time, this leads to inflammation and damage to vital organs. Environmental side of air pollution disrupts natural systems in several ways. Pollutants like sulfur dioxide and nitrogen oxides can lead to acid rain, which damages forests, crops, and aquatic ecosystems by altering soil chemistry and water quality. Excess nitrogen in the air can settle into ecosystems, causing nutrient imbalances that favor certain plant species over others, reducing biodiversity. Additionally, air pollutants such as black carbon and greenhouse gases contribute to Climate Change, accelerating global warming and affecting weather patterns, glaciers, and sea levels.

Overall, air pollution is a complex global issue that connects public health, environmental stability, and climate systems. Addressing it requires coordinated efforts such as reducing emissions from vehicles and industries, promoting clean energy, and increasing public awareness.

This issue highlights the ambient air quality level for the year 2025 and 3 (three) years comparison of 11 (Eleven) manual monitoring stations in two districts of Nagaland i.e. 7 (seven) stations at Dimapur and 4 (Four) stations at Kohima, as monitored and compiled under the National Air Monitoring Programme (NAMP) by the host organization.



Air Pollution and it's Impacts on Human Health

Air pollution affects the human body primarily through the inhalation of fine particulate matter and harmful gases that penetrate deep into the lungs and pass into the bloodstream. Once inside the body, these pollutants trigger inflammation and oxidative stress, which can damage tissues and organs over time. Prolonged exposure significantly increases the risk of respiratory diseases such as asthma, chronic bronchitis, and lung cancer, while also contributing to cardiovascular conditions including heart attacks and strokes. Air pollution can elevate blood pressure, thicken the blood, and promote the buildup of plaque in arteries, all of which strain the heart and circulatory system.

Certain populations are especially vulnerable to these harmful effects. Young children, particularly those under five years old, have developing lungs and immune systems, making them more susceptible to respiratory infections and long-term lung damage. Hundreds of thousands of child deaths each year are linked to poor air quality. Pregnant women exposed to polluted air face higher risks of complications such as low birth weight, premature birth, and impaired fetal development. Older adults and individuals with pre-existing health conditions are also at increased risk of severe outcomes

Beyond the lungs and heart, emerging scientific evidence shows that air pollution may affect the brain and metabolic system. Long-term exposure has been associated with cognitive decline, dementia, Alzheimer's disease, and even mental health disorders. Studies also suggest a link between air pollution and metabolic diseases such as diabetes, likely due to chronic inflammation and hormonal disruption.

Ambient Air Quality Monitoring for the Year 2025

Under the National Air Quality Monitoring Programme (NAMP), there are 11 (Eleven) MANUAL monitoring stations in Nagaland i.e. 7 (seven) stations at Dimapur and 4 (Four) stations at Kohima with a 1 (one) Continuous Ambient Air Quality Monitoring Station (CAAQMS) at Kohima.

Under this programme, three air pollutants are monitored and analyzed viz., Nitrogen dioxide (NO₂), Sulphur dioxide (SO₂) and Respirable Suspended Particulate Matter (RSPM). The monitoring of air pollutants is carried out for 24 hours (4 hourly sampling for gaseous pollutants (NO₂ & SO₂) and 8hourly sampling for Particulate Matter (RSPM) twice or thrice a week.

Ambient Air Quality of Dimapur City

Under the National Air Monitoring Programme (NAMP) there are 7 (seven) monitoring stations at Dimapur.

The Board has been regularly monitoring the air quality of Dimapur city under NAMP at 7 stations.

Table: Monitoring stations under the NAMP programme in Dimapur city.

| Sl. No. | Station Name | Station Code | Station Type |
|---------|------------------|--------------|--------------|
| 1. | Bank Colony (BC) | 317 | Residential |
| 2. | Dhobinala (Db) | 448 | Commercial |
| 3. | NPCB Office | 1003 | Residential |
| 4. | Tenyiphe | 1004 | Commercial |
| 5. | Nagarjan | 1005 | Residential |
| 6. | Viola Colony | 1006 | Residential |
| 7. | Burma Camp (BRC) | 1007 | Commercial |

Table: The Monthly Average Concentration and Annual Average concentration of Particulate Matter (RSPM) for all the stations in Dimapur for the year 2025

| Sl. No | Month of the year 2025 | Name of NAMP Station with Code (<i>values in $\mu\text{g}/\text{m}^3$</i>) | | | | | | |
|--------|------------------------|---|------------|--------------------|-----------------|-----------------|--------------|-------------------|
| | | BC (317) | Db (448) | NPCB Office (1003) | Tenyiphe (1004) | Nagarjan (1005) | Viola (1006) | Burma Camp (1007) |
| 1. | January | 181 | 236 | 192 | 137 | 186 | 155 | 222 |
| 2. | February | 160 | 229 | 156 | 117 | 169 | 127 | 222 |
| 3. | March | 152 | 188 | 154 | 111 | 151 | 121 | 171 |
| 4. | April | 132 | 146 | 113 | 99 | 118 | 94 | 145 |
| 5. | May | 88 | 87 | 68 | 59 | 66 | 48 | 78 |
| 6. | June | 72 | 100 | 51 | 48 | 62 | 38 | 96 |
| 7. | July | 55 | 83 | 40 | 54 | 53 | 32 | 78 |
| 8. | August | 37 | 56 | 30 | 40 | 34 | 26 | 62 |
| 9. | September | 50 | 86 | 37 | 48 | 42 | 42 | 76 |
| 10. | October | 79 | 122 | 67 | 61 | 85 | 74 | 106 |
| 11. | November | 109 | 144 | 106 | 86 | 119 | 101 | 156 |
| 12. | December | 170 | 190 | 177 | 122 | 161 | 164 | 222 |
| | Annual Average | 107 | 139 | 99 | 82 | 104 | 85 | 136 |

Monthly Comparison of PM2.5 Data in Dimapur City

| Sl. | Months | Bank Colony | Dhobinala | NPCB Office | Tenyiphe | Nagarjan | Viola | Burma Camp | |
|-----|---|-------------|-----------|-------------|----------|----------|-------|------------|---------|
| 1. | PM 2.5 Data for the month of October, 2025 (values in $\mu\text{g}/\text{m}^3$) | 41 | 46 | 38 | 33 | 48 | 33 | 48 | 41 |
| 2. | PM 2.5 Data for the month of November, 2025 (values in $\mu\text{g}/\text{m}^3$) | 63 | 63 | 49 | 40 | 59 | 36 | 66 | 53.7143 |
| 3. | PM 2.5 Data for the month of December, 2025 (values in $\mu\text{g}/\text{m}^3$) | 62 | 73 | 69 | 53 | 58 | 54 | 73 | 63.1429 |

Monthly Comparison of PM2.5 Data in Dimapur City

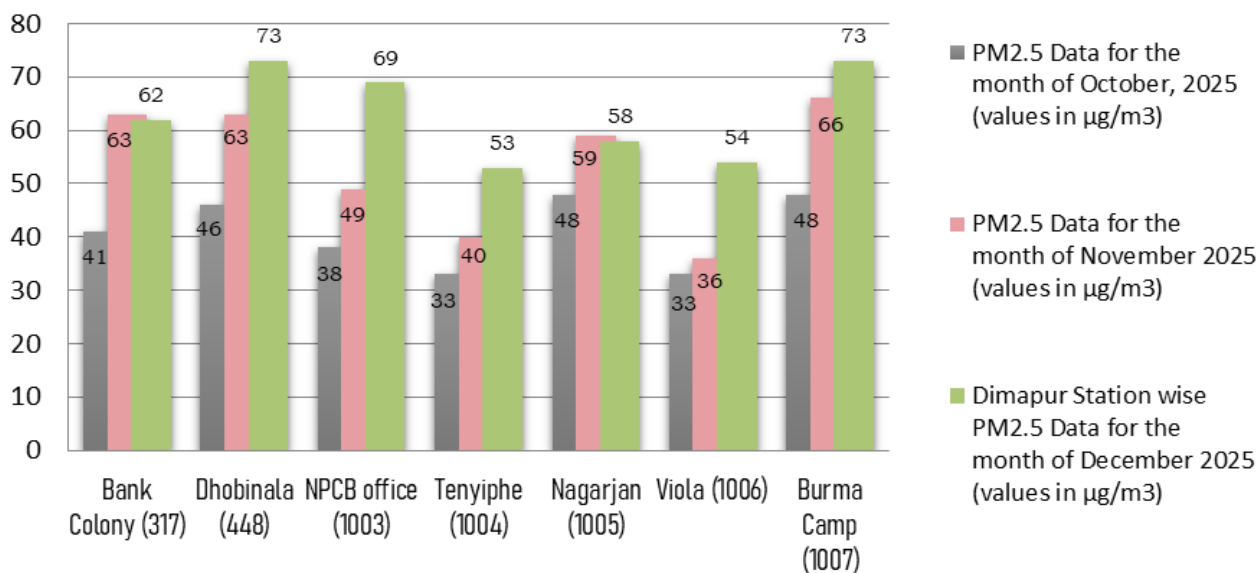


Table: Comparison values of Annual Average Concentration of Particulate Matter (RSPM) for all the stations for the consecutive years from 2023- 2025

| Years | BC (317) | Db (448) | NPCB Office (1003) | Tenyiphe (1004) | Nagarjan (1005) | Viola (1006) | Burma Camp (1007) |
|-------|----------|----------|--------------------|-----------------|-----------------|--------------|-------------------|
| 2023 | 95 | 130 | 89 | 86 | 89 | 81 | 114 |
| 2024 | 102 | 153 | 101 | 80 | 98 | 78 | 127 |
| 2025 | 107 | 139 | 99 | 82 | 104 | 85 | 136 |

Graph: Annual Average Concentration of Particular Matter (RSPM) for all the 7 stations for the consecutive years 2023 to 2025

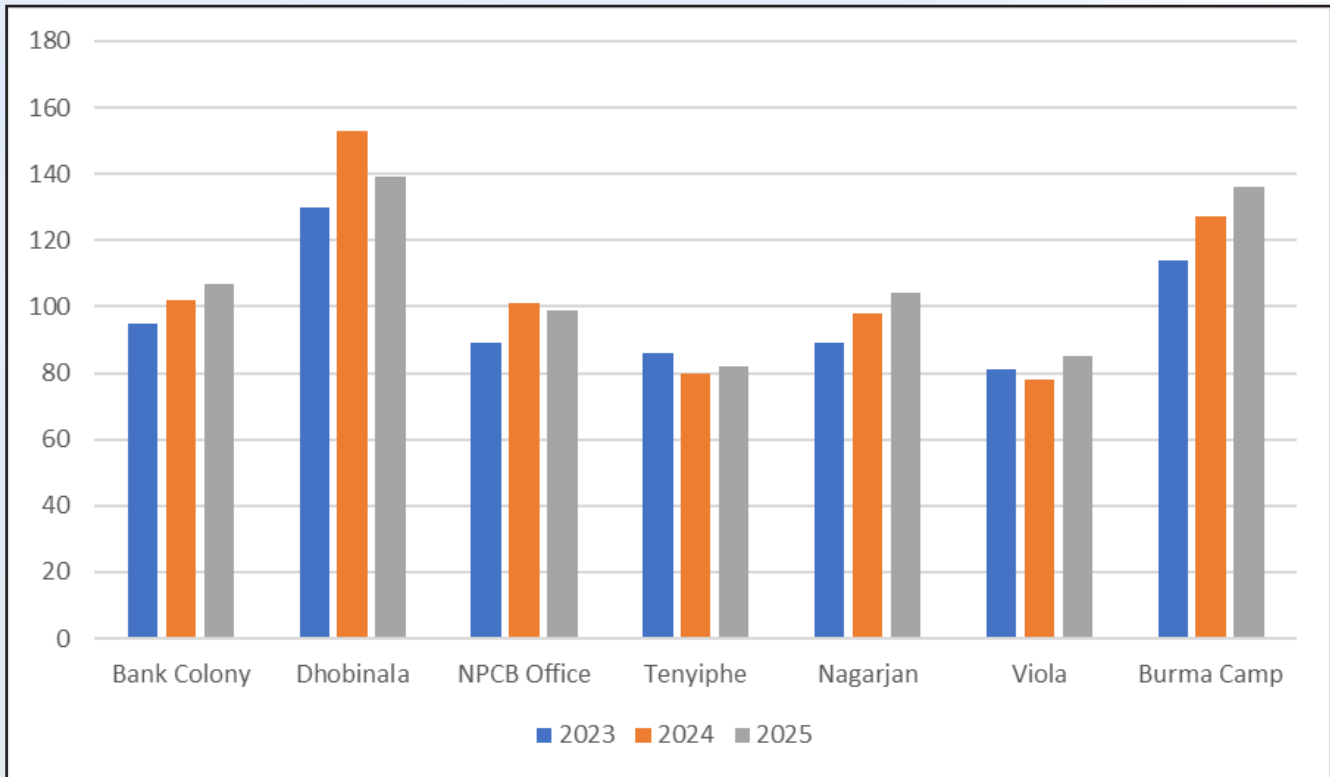


Table: Monitoring stations under the NAMP programme in Kohima city.

| Sl. No | Station Name | Station Code | Station Type |
|--------|----------------------|--------------|--------------|
| 1. | Opp. NST Office | 317 | Residential |
| 2. | PWD Junction | 610 | Commercial |
| 3. | Upper Midland | - | Residential |
| 4. | High School Junction | 1089 | Commercial |

Table: The Monthly Average Concentration and Annual Average concentration of Particulate Matter (RSPM) for all the stations in Kohima for the year 2025

| Sl. No | Month of the year 2025 | Name of the Station Code (Values in $\mu\text{g}/\text{m}^3$) | | | |
|--------|------------------------|--|--------------------|---------------|-----------------------|
| | | Opp. NST Office (609) | PWD junction (610) | Upper Midland | High school Jn (1089) |
| 1. | January | 70 | 112 | 95 | 144 |
| 2. | February | 76 | 134 | 104 | 187 |
| 3. | March | 83 | 131 | 101 | 170 |
| 4. | April | 71 | 98 | 96 | 145 |
| 5. | May | 43 | 51 | 49 | 69 |
| 6. | June | 34 | 40 | 39 | 62 |
| 7. | July | 29 | 35 | 33 | 51 |

| | | | | | |
|-----|-----------------------|-----------|-----------|-----------|------------|
| 8. | August | 26 | 34 | 25 | 44 |
| 9. | September | 32 | 49 | 31 | 59 |
| 10. | October | 51 | 68 | 52 | 92 |
| 11. | November | 69 | 100 | 54 | 112 |
| 12. | December | 70 | 83 | 58 | 116 |
| | Annual Average | 55 | 78 | 61 | 104 |

Monthly Comparison of PM2.5 Data in Kohima City

| Sl. | Months | Opp. NST Office | PWD junction | Upper Midland | High school Jn | |
|-----|---|-----------------|--------------|---------------|----------------|-------|
| 1. | PM 2.5 Data for the month of October, 2025 (values in µg/m3) | 25 | 26 | 42 | 30 | 30.75 |
| 2. | PM 2.5 Data for the month of November, 2025 (values in µg/m3) | 34 | 29 | 45 | 33 | 35.25 |
| 3. | PM 2.5 Data for the month of December, 2025 (values in µg/m3) | 38 | 36 | 56 | 34 | 41 |

Monthly Comparison of PM2.5 Data in Kohima City

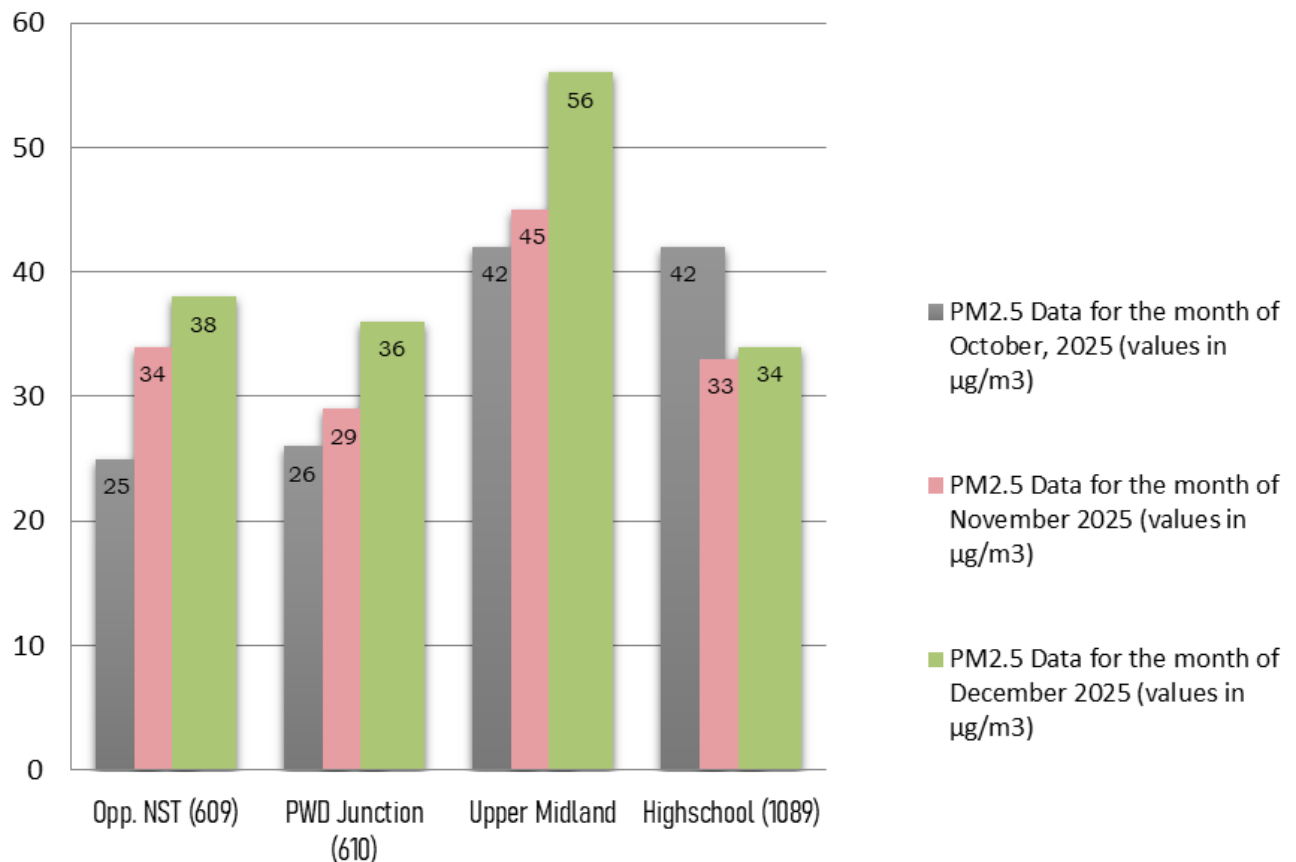
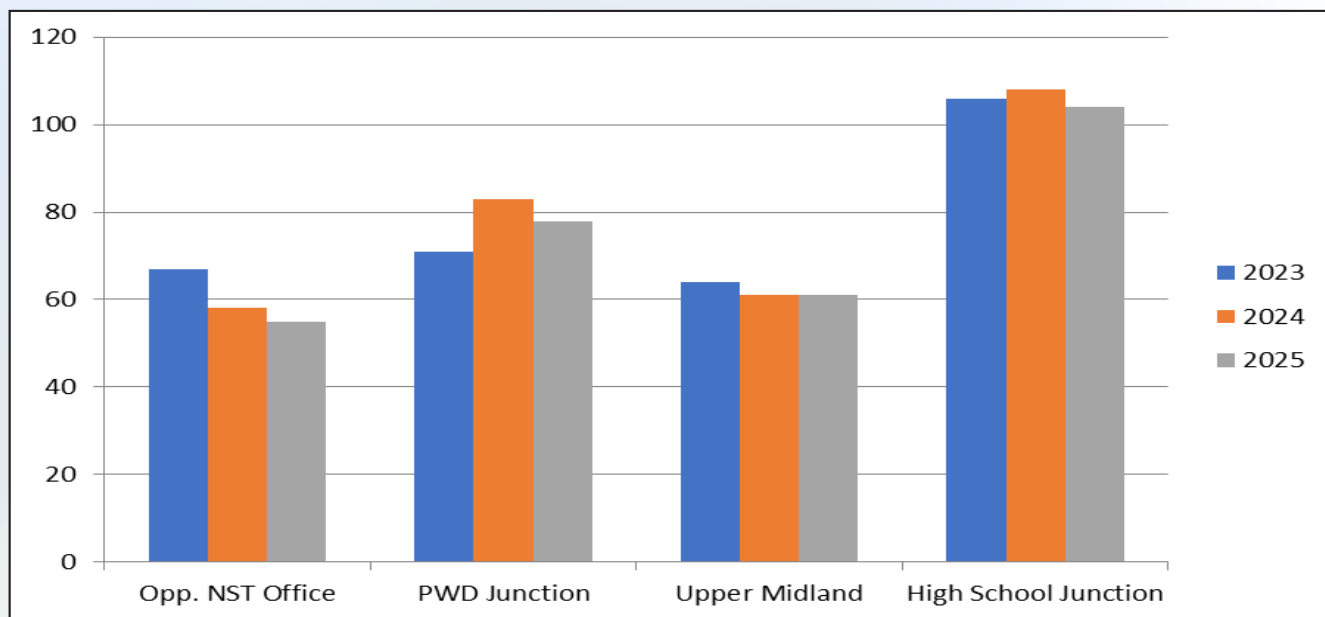


Table: Comparison values of Annual Average Concentration of Particulate Matter (RSPM) for all the stations for the consecutive years from 2023- 2025

| Years | Opp. NST Office (609) | PWD junction (610) | Upper Midland | High school Jn (1089) |
|-------|-----------------------|--------------------|---------------|-----------------------|
| 2023 | 67 | 71 | 64 | 106 |
| 2024 | 58 | 83 | 61 | 108 |
| 2025 | 55 | 78 | 61 | 104 |

Graph: Annual Average Concentration of Particulate Matter (RSPM) for all the 7 stations for the consecutive years 2023 to 2025



Executive Summary

This report summarizes the ambient air quality data for the year 2025 in Kohima and Dimapur, based on Respirable Suspended Particulate Matter (RSPM) measurements recorded at various National Air Monitoring Programme (NAMP) stations. The data indicates seasonal variations in pollution levels, with higher concentrations generally observed during the winter months and lower levels during the monsoon period.

Key Observations for Dimapur District

- Highest annual pollution levels were recorded at Burma Camp (1007), with peak values in January (222 µg/m³) and December (222 µg/m³)
- Lowest annual levels were observed at Viola (1006), particularly in June (48 µg/m³)

Seasonal Trend

- Winter months (Dec–Feb) showed elevated RSPM levels across all stations.
- Monsoon months (Jun–Sep) recorded the lowest pollution levels.
- Annual Range: RSPM values varied from 48 µg/m³ (Jun, Viola) to 222 µg/m³ (Jan/Dec, Burma Camp)

Key Observations for Kohima District

- Highest pollution levels were consistently recorded at PWD Junction (610) peaking in February (187 $\mu\text{g}/\text{m}^3$).
- Lowest levels were noted at Opp. NST Office (609) in August (26 $\mu\text{g}/\text{m}^3$)

Seasonal Trend

- Winter and post-monsoon months showed higher pollution.
- Annual Range: RSPM values ranged from 26 $\mu\text{g}/\text{m}^3$ (Aug, Opp. NST Office) to 187 $\mu\text{g}/\text{m}^3$ (Feb, PWD Junction).

Comparative Summary: Kohima vs Dimapur

Dimapur stations generally reported higher RSPM concentrations compared to Kohima with Dimapur recording at 222 $\mu\text{g}/\text{m}^3$ at Burma Camp and Kohima with 187 $\mu\text{g}/\text{m}^3$ at PWD Junction.

The ambient air quality in Kohima and Dimapur during 2025 exhibited clear seasonal trends, with winter months experiencing higher particulate pollution. While Kohima generally reported lower RSPM levels than Dimapur, both cities require sustained efforts to improve air quality, particularly in identified high-risk zones.

Ambient Air Quality of Eight Districts and Rural Stations

The ambient air quality monitoring in Nagaland was expanded to include eight additional districts—Kiphire, Mokokchung, Mon, Peren, Phek, Tuensang, Wokha, and Zunheboto—along with rural monitoring stations. These stations were newly added in 2024 to improve the spatial coverage of air quality assessment. The table below presents the annual average air quality of these eight districts and the rural monitoring stations for the year 2024- 2025.

Table: The Monthly Average Concentration and Annual Average of Particulate Matter (RSPM) for all the stations in Rural for the year 2025

| Sl. no | Month | Name of NAMP Station with code (values in $\mu\text{g}/\text{m}^3$) | | |
|--------|-----------|--|---------------------------------|-----------------------------------|
| | | Yikhum (Residential) (1311) | Toulazouma (Residential) (1312) | Padampukhuri (Residential) (1313) |
| 1. | January | 78 | 150 | 144 |
| 2. | February | 83 | 212 | 166 |
| 3. | March | 78 | 173 | 191 |
| 4. | April | 59 | 78 | 69 |
| 5. | May | 62 | 85 | 65 |
| 6. | June | 71 | 67 | 51 |
| 7. | July | 44 | 70 | 63 |
| 8. | August | 48 | 81 | 72 |
| 9. | September | 50 | 77 | 64 |

| | | | | |
|---|----------|----------------------------|-----------------------------|----------------------------|
| 10. | October | 34 | 89 | 77 |
| 11. | November | 32 | 112 | 104 |
| 12. | December | 31 | 163 | 160 |
| Annual Average | | 56 µg/m³ | 113 µg/m³ | 102µg/m³ |
| Annual Average of Rural Stations | | 90 µg/m³ | | |

Table: Comparison values of Annual Average Concentration of Particulate Matter (RSPM) for all the stations in Rural for the consecutive years from 2024- 2025

| Years | Yikhum (1311) | Toulazouma (1312) | Padampukhuri (1313) | Annual Average |
|-------|---------------|-------------------|---------------------|-----------------------|
| 2024 | 40 | 68 | 65 | 57.6 g/m ³ |
| 2025 | 56 | 113 | 102 | 90 µg/m ³ |

Table: The Monthly Average Concentration and Annual Average concentration of Particulate Matter (RSPM) for all the stations in Kiphire for the year 2025

| Sl. no | Month | Name of NAMP Station with code (<i>values in µg/m³</i>) | | |
|---------------------------------------|-----------|--|-------------------------------|-------------------------------|
| | | Rest House Ward (Residential) (1290) | Main Town (Commercial) (1291) | GHS Ward (Residential) (1292) |
| 1. | January | 47 | 94 | 84 |
| 2. | February | 87 | 94 | 97 |
| 3. | March | 118 | 124 | 132 |
| 4. | April | 48 | 36 | 41 |
| 5. | May | 52 | 40 | 50 |
| 6. | June | 51 | 58 | 54 |
| 7. | July | 38 | 47 | 43 |
| 8. | August | 40 | 42 | 33 |
| 9. | September | 50 | 47 | 36 |
| 10. | October | 39 | 33 | 39 |
| 11. | November | 52 | 56 | 44 |
| 12. | December | 57 | 71 | 46 |
| Annual Average | | 57 µg/m³ | 62 µg/m³ | 58 µg/m³ |
| Annual Average of Kiphire Town | | 59 µg/m³ | | |

Table: Comparison values of Annual Average Concentration of Particulate Matter (RSPM) for all the stations in Kiphire for the consecutive years from 2024- 2025

| Years | Rest House Ward (1290) | Main Town (1291) | Main Town (1292) | Annual Average |
|-------------|------------------------|------------------|------------------|----------------------------|
| 2024 | 41 | 59 | 48 | 49 µg/m³ |
| 2025 | 57 | 62 | 58 | 59 µg/m³ |

Table: The Monthly Average Concentration and Annual Average concentration of Particulate Matter (RSPM) for all the stations in Mokokchung for the year 2025

| Sl.no | Month | Name of NAMP Station with code (<i>values in µg/m³</i>) | | |
|--|-----------|---|------------------------------|-----------------------------|
| | | Kumlong (Residential) (1308) | Kapayong (Commercial) (1309) | Artang (Residential) (1310) |
| 1. | January | 75 | 93 | 59 |
| 2. | February | 103 | 118 | 92 |
| 3. | March | 84 | 108 | 108 |
| 4. | April | 66 | 41 | 80 |
| 5. | May | 41 | 54 | 37 |
| 6. | June | 35 | 44 | 36 |
| 7. | July | 25 | 35 | 28 |
| 8. | August | 22 | 28 | 20 |
| 9. | September | 28 | 37 | 29 |
| 10. | October | 39 | 57 | 40 |
| 11. | November | 49 | 58 | 38 |
| 12. | December | 59 | 78 | 46 |
| Annual Average | | 52 µg/m3 | 63 µg/m3 | 51 µg/m3 |
| Annual Average of Mokokchung Town | | 55 µg/m3 | | |

Table: Comparison values of Annual Average Concentration of Particulate Matter (RSPM) for all the stations in Mokokchung for the consecutive years from 2024- 2025

| Years | Kumlong (1308) | Kapayong (1309) | Artang (1310) | Annual Average |
|-------------|----------------|-----------------|---------------|-----------------|
| 2024 | 48 | 58 | 43 | 50 µg/m3 |
| 2025 | 52 | 63 | 51 | 55 µg/m3 |

Table: The Monthly Average Concentration and Annual Average concentration of Particulate Matter (RSPM) for all the stations in MON for the year 2025

| Sl.no | Month | Name of NAMP Station with code (<i>values in µg/m³</i>) | | |
|-------|----------|---|-----------------------------|-----------------------------|
| | | Papong (Residential) (1299) | Chingai (Commercial) (1300) | Jahjon (Residential) (1301) |
| 1. | January | 85 | 175 | 139 |
| 2. | February | 101 | 214 | 144 |
| 3. | March | 96 | 211 | 114 |
| 4. | April | 78 | 161 | 100 |
| 5. | May | 34 | 123 | 95 |
| 6. | June | 36 | 113 | 51 |
| 7. | July | 25 | 97 | 46 |
| 8. | August | 28 | 86 | 49 |

| | | | | |
|-----------------------------------|-----------|----------------------------|-----------------------------|----------------------------|
| 9. | September | 42 | 90 | 48 |
| 10. | October | 42 | 110 | 50 |
| 11. | November | 31 | 118 | 52 |
| 12. | December | 28 | 132 | 78 |
| Annual Average | | 52 µg/m³ | 136 µg/m³ | 81 µg/m³ |
| Annual Average of MON Town | | 90 µg/m³ | | |

Table: Comparison values of Annual Average Concentration of Particulate Matter (RSPM) for all the stations in MON for the consecutive years from 2024- 2025

| Years | Papong (1299) | Chingai (1300) | Jahjon (1301) | Annual Average |
|-------------|---------------|----------------|---------------|------------------------------|
| 2024 | 41 | 79 | 47 | 55.6 µg/m³ |
| 2025 | 52 | 136 | 81 | 90 µg/m³ |

Table: The Monthly Average Concentration and Annual Average concentration of Particulate Matter (RSPM) for all the stations in Peren for the year 2025

| Sl. no | Month | Name of NAMP Station with code (<i>values in µg/m³</i>) | | |
|-------------------------------------|-----------|--|---|---|
| | | Stadium Colony (Commercial) (1287) | Jalukie B, C Block (Residential) (1288) | Keleilwa Colony, Ward- 6 (Residential) (1289) |
| 1. | January | 237 | 115 | 166 |
| 2. | February | 213 | 134 | 187 |
| 3. | March | 211 | 128 | 156 |
| 4. | April | 127 | 78 | 99 |
| 5. | May | 61 | 29 | 43 |
| 6. | June | 60 | 25 | 39 |
| 7. | July | 53 | 21 | 39 |
| 8. | August | 45 | 23 | 36 |
| 9. | September | 42 | 23 | 40 |
| 10. | October | 77 | 33 | 52 |
| 11. | November | 105 | 44 | 67 |
| 12. | December | 157 | 65 | 93 |
| Annual Average | | 116 µg/m³ | 60 µg/m³ | 85 µg/m³ |
| Annual Average of Peren Town | | 87 µg/m³ | | |

Table: Comparison values of Annual Average Concentration of Particulate Matter (RSPM) for all the stations in Peren for the consecutive years from 2024- 2025

| Years | Stadium Colony (1287) | Jalukie B, C Block (1288) | Keleilwa Colony (1289) | Annual Average |
|-------------|-----------------------|---------------------------|------------------------|----------------------------|
| 2024 | 89 | 47 | 69 | 68 µg/m³ |
| 2025 | 116 | 60 | 85 | 87 µg/m³ |

Table: The Monthly Average Concentration and Annual Average concentration of Particulate Matter (RSPM) for all the stations in Phek for the year 2025

| Sl. no | Month | Name of NAMP Station with code (<i>values in µg/m³</i>) | | |
|------------------------------------|-----------|--|---------------------------------------|--|
| | | Bethel Colony (Residential) (1305) | Jericho II Colony (Commercial) (1306) | Bible Hill Colony (Residential) (1307) |
| 1. | January | 62 | 118 | 89 |
| 2. | February | 92 | 121 | 90 |
| 3. | March | 101 | 142 | 90 |
| 4. | April | 57 | 90 | 68 |
| 5. | May | 35 | 68 | 43 |
| 6. | June | 28 | 57 | 29 |
| 7. | July | 23 | 40 | 30 |
| 8. | August | 19 | 29 | 24 |
| 9. | September | 26 | 38 | 33 |
| 10. | October | 41 | 54 | 37 |
| 11. | November | 50 | 66 | 45 |
| 12. | December | 46 | 93 | 49 |
| Annual Average | | 48 µg/m³ | 76 µg/m³ | 52 µg/m³ |
| Annual Average of Phek Town | | 59 µg/m³ | | |

Table: Comparison values of Annual Average Concentration of Particulate Matter (RSPM) for all the stations in Phek for the consecutive years from 2024- 2025

| Years | Bethel Colony (1305) | Jericho II Colony (1306) | Bible Hill Colony (1307) | Annual Average |
|-------------|----------------------|--------------------------|--------------------------|----------------------------|
| 2024 | 39 | 66 | 51 | 52 µg/m³ |
| 2025 | 48 | 76 | 52 | 59 µg/m³ |

Table: The Monthly Average Concentration and Annual Average concentration of Particulate Matter (RSPM) for all the stations in Tuensang for the year 2025

| Sl.no | Month | Name of NAMP Station with code (<i>values in µg/m³</i>) | | |
|-------|----------|--|--------------------------|------------------------------|
| | | Officers Ward (Residential) (1296) | NST (Residential) (1297) | Bazaar A (Commercial) (1298) |
| 1. | January | 128 | 117 | 103 |
| 2. | February | 140 | 150 | 120 |
| 3. | March | 147 | 136 | 110 |
| 4. | April | 74 | 71 | 66 |
| 5. | May | 82 | 85 | 72 |
| 6. | June | 81 | 73 | 74 |
| 7. | July | 76 | 66 | 68 |

| | | | | |
|--|-----------|----------------------------|----------------------------|----------------------------|
| 8. | August | 65 | 62 | 69 |
| 9. | September | 62 | 54 | 51 |
| 10. | October | 50 | 56 | 39 |
| 11. | November | 72 | 61 | 49 |
| 12. | December | 101 | 102 | 66 |
| Annual Average | | 90 µg/m³ | 86 µg/m³ | 74 µg/m³ |
| Annual Average of Tuensang Town | | 83 µg/m³ | | |

Table: Comparison values of Annual Average Concentration of Particulate Matter (RSPM) for all the stations in Tuensang for the consecutive years from 2024- 2025

| Years | Officers Ward (1296) | NST (1297) | Bazaar A (1298) | Annual Average |
|-------|----------------------|------------|-----------------|----------------------------|
| 2024 | 60 | 59 | 61 | 60 µg/m³ |
| 2025 | 90 | 86 | 74 | 83 µg/m³ |

Table: The Monthly Average Concentration and Annual Average concentration of Particulate Matter (RSPM) for all the stations in Wokha for the year 2025

| Sl.no | Month | Name of NAMP Station with code (<i>values in µg/m³</i>) | | |
|-------------------------------------|-----------|--|---------------------------|-------------------------------|
| | | Forest Colony (Residential) (1293) | NST (Residential) (1294) | Main Town (Commercial) (1295) |
| 1. | January | 66 | 58 | 86 |
| 2. | February | 87 | 94 | 104 |
| 3. | March | 98 | 95 | 114 |
| 4. | April | 74 | 87 | 93 |
| 5. | May | 53 | 49 | 62 |
| 6. | June | 38 | 38 | 48 |
| 7. | July | 27 | 29 | 44 |
| 8. | August | 23 | 25 | 39 |
| 9. | September | 30 | 31 | 44 |
| 10. | October | 35 | 36 | 54 |
| 11. | November | 33 | 43 | 54 |
| 12. | December | 33 | 56 | 75 |
| Annual Average | | 50 µg/m³ | 53µg/m³ | 68 µg/m³ |
| Annual Average of Wokha Town | | 57 µg/m³ | | |

Table: Comparison values of Annual Average Concentration of Particulate Matter (RSPM) for all the stations in Wokha for the consecutive years from 2024- 2025

| Years | Forest Colony (1293) | NST (1294) | Main Town (1295) | Annual Average |
|-------|----------------------|------------|------------------|------------------------------|
| 2024 | 42 | 42 | 71 | 51.6 µg/m³ |
| 2025 | 50 | 53 | 68 | 57 µg/m³ |

Table: The Monthly Average Concentration and Annual Average concentration of Particulate Matter (RSPM) for all the stations in Zunheboto for the year 2025

| Sl. no | Month | Name of NAMP Station with code (values in $\mu\text{g}/\text{m}^3$) | | |
|---|-----------|--|---|---|
| | | Project Colony (Commercial) (1302) | Old Town Colony (Residential) (1303) | D.C. Hill Colony (Residential) (1304) |
| 1. | January | 98 | 80 | 63 |
| 2. | February | 113 | 110 | 93 |
| 3. | March | 125 | 72 | 119 |
| 4. | April | 87 | 102 | 81 |
| 5. | May | 66 | 66 | 46 |
| 6. | June | 52 | 41 | 32 |
| 7. | July | 38 | 35 | 25 |
| 8. | August | 28 | 30 | 22 |
| 9. | September | 37 | 41 | 31 |
| 10. | October | 59 | 48 | 38 |
| 11. | November | 81 | 63 | 46 |
| 12. | December | 91 | 75 | 51 |
| Annual Average | | 73 $\mu\text{g}/\text{m}^3$ | 64 $\mu\text{g}/\text{m}^3$ | 54 $\mu\text{g}/\text{m}^3$ |
| Annual Average of Zunheboto Town | | 63 $\mu\text{g}/\text{m}^3$ | | |

Table: Comparison values of Annual Average Concentration of Particulate Matter (RSPM) for all the stations in Zunheboto for the consecutive years from 2024- 2025

| Years | Project Colony (1302) | Old Town Colony (1303) | D.C. Hill Colony (1304) | Annual Average |
|-------------|-----------------------|------------------------|-------------------------|---|
| 2024 | 70 | 65 | 55 | 64 $\mu\text{g}/\text{m}^3$ |
| 2025 | 73 | 64 | 54 | 63 $\mu\text{g}/\text{m}^3$ |

CONCLUSION

Air quality levels above **60 $\mu\text{g}/\text{m}^3$** are not considered ideal for the environment and may lead to long-term health effects. Prolonged exposure to such levels can result in various health issues. Therefore, the permissible air quality level should ideally remain below **60 $\mu\text{g}/\text{m}^3$** .

During monitoring conducted in 2024, districts such as Peren, Tuensang, and Zunheboto recorded levels above **60 $\mu\text{g}/\text{m}^3$** , exceeding the permissible limit. In contrast, districts like Kiphire, Mokokchung, Mon, Phek, and Wokha, along with rural monitoring stations, were found to be within the permissible limit. In 2025, rural stations and the districts of Mon, Peren, Tuensang, and Zunheboto exceeded the permissible limit. Meanwhile, Mokokchung, Kiphire, Phek, and Wokha remained within the acceptable range. These findings highlight the need for continued monitoring and targeted interventions to maintain air quality within safe limits for both the environment and public health.

Celebration of Environment Days

NATIONAL CLEANLINESS DAY

National Cleanliness Day in India is observed every year on 30th January to honour the martyrdom of Mahatma Gandhi and to highlight his lifelong commitment to cleanliness, hygiene, and disciplined living. In essence, National Cleanliness Day serves as a reminder that honouring Mahatma Gandhi also means practising the values he stood for, especially cleanliness, discipline, and social responsibility.

EIACP Hub, Nagaland Pollution Control Board, observed National Cleanliness Day and conducted Drawing Competition on 30th January 2026, under the theme, “Setting the Cleanliness tone for 2026: A Shared National Responsibility” with Patkai Christian College (Autonomous) students at Gwizan Resource Centre, Khonoma Village, Kohima District.

As part of the observance of National Cleanliness Day, Ms. Khriehunuo Rutsa, Programme Officer, EIACP, delivered a brief presentation highlighting the origin of the day and its connection to Mahatma Gandhi, who firmly believed that cleanliness is next only to godliness. She emphasized Gandhiji’s belief that cleanliness is essential to a healthy and disciplined society and that it begins at the individual level. The presentation reinforced the importance of maintaining clean surroundings as a collective responsibility and a way to uphold Mahatma Gandhi’s vision of a clean and healthy nation.

A drawing competition under the theme “Setting the Cleanliness tone for 2026: A Shared National Responsibility” was conducted.



The winners of the Drawing Competition were presented with cash prizes along with certificates. They are as follows:

- 1st Ms. Chingri Rainan, 4th Semester
- 2nd Mr. Igumlui Hegeu, 6th Semester
- 3rd Mr. Bendangsunep Sor, 4th Semester

WORLD WETLANDS DAY

A wetland is a land area that is either permanently or seasonally saturated with water, where water is the primary factor influencing the soil, plants, and animals. Wetlands include ecosystems such as marshes, swamps, bogs, mangroves, estuaries, and floodplains, and they provide vital ecological, social, and economic benefits.

Wetlands are not just natural ecosystems; they are deeply connected to the cultural identity and traditional knowledge of communities around the world. For centuries, Indigenous peoples and local communities have lived in harmony with wetlands, developing knowledge systems that help conserve water, protect biodiversity, and sustain livelihoods.



On February 4, 2026, the Wokha Forest Division and Doyang Plantation Division, in collaboration with EIACP PC Hub, Nagaland Pollution Control Board, celebrated World Wetlands Day at Multipurpose Hall, Tourist Lodge, Doyang under Wokha District with stakeholders from 20 villages, students and teachers from VKV, DHEP, NEEPCO, officers and staffs from various departments, under the theme “Wetlands and traditional knowledge: Celebrating cultural heritage”.

Shri Suman W M Sivachar, DFO Wokha Forest Division & Doyang Plantation Division, highlighted the importance of wetlands and traditional conservation practices in his keynote address. Ms Khriehunuo Rutsa, PO, EIACP gave a PPT on Mission LIFE, covering its seven themes and encouraging attendees to adopt eco-friendly habits. Mission LIFE pledge was also undertaken by the participants. Pamphlets on importance of wetlands were also distributed among the participants.

An online open poem composition and recitation competition was held for students across four categories: class 5-7, class 8-10, class 11-12, and undergraduate. Participants showcased their talents in the Lotha local dialect, celebrating World Wetlands Day. The winners were awarded with certificates and cash prize during the programme.

All queries and feedback regarding this newsletter can be sent to:

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