

**STATE POLLUTION CONTROL BOARD-SIKKIM**  
**AMBIENT AIR QUALITY MONITORING REPORT FOR THE**  
**MONTH OF JANUARY 2023**

| SN | LOCATION                 | AIR QUALITY INDEX    |                      |                      |                      |                      |                      |                      |                      |                      |
|----|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|    | NAME OF STATION          | 03.01.2023           | 05.01.2023           | 10.01.2023           | 12.01.2023           | 17.01.2023           | 19.01.2023           | 24.01.2023           | 27.01.2023           | 31.01.2023           |
| 1  | RANGPO, East Sikkim      | 64<br>(Satisfactory) | 67<br>(Satisfactory) | 72<br>(Satisfactory) | 73<br>(Satisfactory) | 86<br>(Satisfactory) | 70<br>(Satisfactory) | 67<br>(Satisfactory) | 77<br>(Satisfactory) | 80<br>(Satisfactory) |
| 2  | SINGTAM, East Sikkim     | 63<br>(Satisfactory) | 58<br>(Satisfactory) | 58<br>(Satisfactory) | 61<br>(Satisfactory) | 70<br>(Satisfactory) | 61<br>(Satisfactory) | 66<br>(Satisfactory) | 61<br>(Satisfactory) | 66<br>(Satisfactory) |
| 3  | DEORALI, East Sikkim     | 72<br>(Satisfactory) | 62<br>(Satisfactory) | 40<br>(Good)         | 70<br>(Satisfactory) | 77<br>(Satisfactory) | 64<br>(Satisfactory) | 71<br>(Satisfactory) | 73<br>(Satisfactory) | 74<br>(Satisfactory) |
| 4  | RAVANGLA, South Sikkim   | 25<br>(Good)         | 26<br>(Good)         | 26<br>(Good)         | 28<br>(Good)         | 17<br>(Good)         | 20<br>(Good)         | 17<br>(Good)         | 22<br>(Good)         | 25<br>(Good)         |
| 5  | NAMCHI, South Sikkim     | 34<br>(Good)         | 30<br>(Good)         | 29<br>(Good)         | 32<br>(Good)         | 31<br>(Good)         | 35<br>(Good)         | 31<br>(Good)         | 34<br>(Good)         | 31<br>(Good)         |
| 6  | PELLING, West Sikkim     | 28<br>(Good)         | 28<br>(Good)         | 24<br>(Good)         | 28<br>(Good)         | 31<br>(Good)         | 35<br>(Good)         | 32<br>(Good)         | 37<br>(Good)         | 36<br>(Good)         |
| 7  | MANGAN, North Sikkim     | 22<br>(Good)         | 19<br>(Good)         | 22<br>(Good)         | 21<br>(Good)         | 40<br>(Good)         | 41<br>(Good)         | 44<br>(Good)         | 44<br>(Good)         | 43<br>(Good)         |
| 8  | CHUNGTHANG, North Sikkim | 22<br>(Good)         | 23<br>(Good)         | 23<br>(Good)         | 24<br>(Good)         | 26<br>(Good)         | 26<br>(Good)         | 25<br>(Good)         | 26<br>(Good)         | 26<br>(Good)         |

|                                 |  |                               |   |
|---------------------------------|--|-------------------------------|---|
| <b>Good</b><br>(0–50)           | Minimal Impact   | <b>Poor</b><br>(201–300)      | Breathing discomfort to people on prolonged exposure    |
| <b>Satisfactory</b><br>(51–100) | Minor breathing discomfort to sensitive people   | <b>Very Poor</b><br>(301–400) | Respiratory illness to the people on prolonged exposure |
| <b>Moderate</b><br>(101–200)    | Breathing discomfort to the people with lung, heart disease, children and older adults | <b>Severe</b><br>(>401)       | Respiratory effects even on healthy people              |

**STATE POLLUTION CONTROL BOARD, SIKKIM AMBIENT AIR QUALITY DATA OF EIGHT STATIONS UNDER NAMP FOR THE MONTH OF JANUARY 2023**

| Station         | Sampling Date | STANDARD OF PARAMETERS BY C.P.C.B    |                                      |                                       |                   |            |
|-----------------|---------------|--------------------------------------|--------------------------------------|---------------------------------------|-------------------|------------|
|                 |               | SO <sub>2</sub> (µg/m <sup>3</sup> ) | NO <sub>2</sub> (µg/m <sup>3</sup> ) | PM <sub>10</sub> (µg/m <sup>3</sup> ) | AQI               |            |
| <b>RANGPO</b>   | 03-01-2023    | 5.78                                 | 7.07                                 | 64.36                                 | <b>64</b>         |            |
|                 | 05-01-2023    | 6.36                                 | 7.26                                 | 66.71                                 | <b>67</b>         |            |
|                 | 10-01-2023    | 5.72                                 | 8.22                                 | 72                                    | <b>72</b>         |            |
|                 | 12-01-2023    | 4.08                                 | 7.3                                  | 72.88                                 | <b>73</b>         |            |
|                 | 17-01-2023    | 4.89                                 | 9.75                                 | 86.39                                 | <b>86</b>         |            |
|                 | 19-01-2023    | 5.3                                  | 10.6                                 | 70.05                                 | <b>70</b>         |            |
|                 | 24-01-2023    | 7.34                                 | 8.59                                 | 67.37                                 | <b>67</b>         |            |
|                 | 27-01-2023    | 5.1                                  | 8.46                                 | 77.02                                 | <b>77</b>         |            |
|                 | 31-01-2023    | 4.89                                 | 8.64                                 | 80.01                                 | <b>80</b>         |            |
| <b>SINGTAM</b>  | 03-01-2023    | 5.87                                 | 10.01                                | 62.9                                  | <b>63</b>         |            |
|                 | 05-01-2023    | 5.92                                 | 8.89                                 | 58.04                                 | <b>58</b>         |            |
|                 | 10-01-2023    | 5.17                                 | 9.25                                 | 57.97                                 | <b>58</b>         |            |
|                 | 12-01-2023    | 6.19                                 | 9.8                                  | 61.38                                 | <b>61</b>         |            |
|                 | 17-01-2023    | 5.22                                 | 9.34                                 | 69.95                                 | <b>70</b>         |            |
|                 | 19-01-2023    | 6.21                                 | 10.08                                | 60.56                                 | <b>61</b>         |            |
|                 | 24-01-2023    | 5.91                                 | 9.62                                 | 65.85                                 | <b>66</b>         |            |
|                 | 27-01-2023    | 6.76                                 | 9.05                                 | 61.39                                 | <b>61</b>         |            |
|                 | 31-01-2023    | 6.94                                 | 9.07                                 | 66.28                                 | <b>66</b>         |            |
| Station         | Sampling Date | SO <sub>2</sub>                      | NO <sub>2</sub>                      | PM <sub>10</sub>                      | PM <sub>2.5</sub> | <b>AQI</b> |
| <b>Gangtok</b>  | 03-01-2023    | 8                                    | 11.22                                | 72.39                                 | 42.4              | <b>72</b>  |
|                 | 05-01-2023    | 6.2                                  | 10.56                                | 62.32                                 | 27.2              | <b>62</b>  |
|                 | 10-01-2023    | 5.4                                  | 9.03                                 | 39.56                                 | 13.3              | <b>40</b>  |
|                 | 12-01-2023    | 5.5                                  | 9.61                                 | 70.34                                 | 31.18             | <b>70</b>  |
|                 | 17-01-2023    | 4.9                                  | 7.79                                 | 76.86                                 | 40.72             | <b>77</b>  |
|                 | 19-01-2023    | 5                                    | 7.96                                 | 63.71                                 | 33.62             | <b>64</b>  |
|                 | 24-01-2023    | 5.4                                  | 8.76                                 | 65.23                                 | 42.4              | <b>71</b>  |
|                 | 27-01-2023    | 4.9                                  | 11.15                                | 73.02                                 | 34.92             | <b>73</b>  |
|                 | 31-01-2023    | 4.4                                  | 9.11                                 | 74.09                                 | 39.01             | <b>74</b>  |
| <b>Ravangla</b> | 03-01-2023    | 5.38                                 | 3.64                                 | 25.42                                 | <b>25</b>         |            |
|                 | 05-01-2023    | 3.96                                 | 4.28                                 | 26.37                                 | <b>26</b>         |            |
|                 | 10-01-2023    | 4.39                                 | 3.68                                 | 26.46                                 | <b>26</b>         |            |
|                 | 12-01-2023    | 3.07                                 | 3.17                                 | 27.65                                 | <b>28</b>         |            |
|                 | 17-01-2023    | 4.18                                 | 3.05                                 | 16.75                                 | <b>17</b>         |            |
|                 | 19-01-2023    | 4.43                                 | 3.86                                 | 20.19                                 | <b>20</b>         |            |
|                 | 24-01-2023    | 4.77                                 | 3.53                                 | 17.12                                 | <b>17</b>         |            |
|                 | 27-01-2023    | 2.71                                 | 3.16                                 | 21.61                                 | <b>22</b>         |            |
|                 | 31-01-2023    | 4.09                                 | 3.08                                 | 25.44                                 | <b>25</b>         |            |

| Station  | Sampling Date | STANDARD OF PARAMETERS BY C.P.C.B    |                                      |                                       |     |
|--|---------------|--------------------------------------|--------------------------------------|---------------------------------------|-----|
|  |               | SO <sub>2</sub> (µg/m <sup>3</sup> ) | NO <sub>2</sub> (µg/m <sup>3</sup> ) | PM <sub>10</sub> (µg/m <sup>3</sup> ) | AQI |
| Namchi   | 03-01-2023    | 2.77                                 | 4.54                                 | 33.97                                 | 34  |
|  | 05-01-2023    | 2.55                                 | 4.11                                 | 30.36                                 | 30  |
|  | 10-01-2023    | 3.44                                 | 5.11                                 | 28.89                                 | 29  |
|  | 12-01-2023    | 3.44                                 | 3.45                                 | 32.01                                 | 32  |
|  | 17-01-2023    | 3.36                                 | 4.83                                 | 31.24                                 | 31  |
|  | 19-01-2023    | 4.28                                 | 4.28                                 | 34.74                                 | 35  |
|  | 24-01-2023    | 4.49                                 | 5.69                                 | 31.15                                 | 31  |
|  | 27-01-2023    | 3.86                                 | 5.35                                 | 33.61                                 | 34  |
|  | 31-01-2023    | 3.42                                 | 3.87                                 | 31.13                                 | 31  |
| Pelling  | 03-01-2023    | 4.42                                 | 4.29                                 | 28.23                                 | 28  |
|  | 05-01-2023    | 3.1                                  | 3.55                                 | 28.47                                 | 28  |
|  | 10-01-2023    | 3.01                                 | 4.54                                 | 26.4                                  | 24  |
|  | 12-01-2023    | 3.2                                  | 4.29                                 | 28.37                                 | 28  |
|  | 17-01-2023    | 5.15                                 | 2.45                                 | 31.43                                 | 31  |
|  | 19-01-2023    | 4.65                                 | 2.16                                 | 34.87                                 | 35  |
|  | 24-01-2023    | 4.41                                 | 3.2                                  | 31.6                                  | 32  |
|  | 27-01-2023    | 5.76                                 | 3.01                                 | 37.07                                 | 37  |
|  | 31-01-2023    | 5.03                                 | 2.35                                 | 35.93                                 | 36  |
| Mangan   | 03-01-2023    | 2.9                                  | 5.67                                 | 22.34                                 | 22  |
|  | 05-01-2023    | 3.3                                  | 5.56                                 | 19.09                                 | 19  |
|  | 10-01-2023    | 3.1                                  | 5.11                                 | 21.99                                 | 22  |
|  | 12-01-2023    | 3.3                                  | 5.01                                 | 20.97                                 | 21  |
|  | 17-01-2023    | 4.83                                 | 3.36                                 | 39.71                                 | 40  |
|  | 19-01-2023    | 3.94                                 | 3.89                                 | 40.57                                 | 41  |
|  | 24-01-2023    | 5.74                                 | 3.93                                 | 43.73                                 | 44  |
|  | 27-01-2023    | 6.35                                 | 4.04                                 | 43.73                                 | 44  |
|  | 31-01-2023    | 6.02                                 | 2.22                                 | 43.07                                 | 43  |
| Chungthang   | 03-01-2023    | 2.08                                 | 1.12                                 | 21.97                                 | 22  |
|  | 05-01-2023    | 2.32                                 | 1.2                                  | 22.72                                 | 23  |
|  | 10-01-2023    | 1.62                                 | 1.16                                 | 22.85                                 | 23  |
|  | 12-01-2023    | 2.39                                 | 1.21                                 | 23.97                                 | 24  |
|  | 17-01-2023    | 2.85                                 | 1.98                                 | 25.61                                 | 26  |
|  | 19-01-2023    | 2.55                                 | 1.44                                 | 25.67                                 | 26  |
|  | 24-01-2023    | 2.09                                 | 1.3                                  | 24.79                                 | 25  |
|  | 27-01-2023    | 2.78                                 | 1.3                                  | 25.74                                 | 26  |
|  | 31-01-2023    | 2.32                                 | 1.21                                 | 26.05                                 | 26  |
| <b>National Ambient Air Quality Standard (NAAQS-24hrs)</b> |               | <b>100</b>                           | <b>80</b>                            | <b>80</b>                             |     |

**National Ambient Air Quality Standard (NAAQS-24hrs)**