

# MONTHLY AAQM DATA ALONG WITH AQI FOR 18 NAMP STATION

## **FEBRUARY 2025**

### About National Air Quality Index

1. Air Quality Index is a tool for effective communication of air quality status to people in terms, which are easy to understand. It transforms complex air quality data of various pollutants into a single number (index value), nomenclature and color.

2. There are six AQI categories, namely Good, Satisfactory, Moderately polluted, Poor, Very Poor, and Severe. Each of these categories is decided based on ambient concentration values of air pollutants and their likely health impacts (known as health breakpoints). AQ sub-index and health breakpoints are evolved for eight pollutants (PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub>, SO<sub>2</sub>, CO, O<sub>3</sub>, NH<sub>3</sub>, and Pb) for which short-term (up to 24-hours) National Ambient Air Quality Standards are prescribed.

3. Based on the measured ambient concentrations of a pollutant, sub-index is calculated, which is a linear function of concentration (e.g. the sub-index for PM<sub>2.5</sub> will be 51 at concentration 31 µg/m<sup>3</sup>, 100 at concentration 60 µg/m<sup>3</sup>, and 75 at concentration of 45 µg/m<sup>3</sup>). The worst sub-index determines the overall AQI. AQI categories and health breakpoints for the eight pollutants are as follow:

| Table 1 : AQI Category, Pollutants and Health Breakpoints |                        |                         |                       |                     |                              |                       |                       |          |
|-----------------------------------------------------------|------------------------|-------------------------|-----------------------|---------------------|------------------------------|-----------------------|-----------------------|----------|
| AQI Category (Range)                                      | PM <sub>10</sub> 24-hr | PM <sub>2.5</sub> 24-hr | NO <sub>2</sub> 24-hr | O <sub>3</sub> 8-hr | CO 8-hr (mg/m <sup>3</sup> ) | SO <sub>2</sub> 24-hr | NH <sub>3</sub> 24-hr | Pb 24-hr |
| Good (0-50)                                               | 0-50                   | 0-30                    | 0-40                  | 0-50                | 0-1.0                        | 0-40                  | 0-200                 | 0-0.5    |
| Satisfactory (51-100)                                     | 51-100                 | 31-60                   | 41-80                 | 51-100              | 1.1-2.0                      | 41-80                 | 201-400               | 0.5 –1.0 |
| Moderate (101-200)                                        | 101-250                | 61-90                   | 81-180                | 101-168             | 2.1- 10                      | 81-380                | 401-800               | 1.1-2.0  |
| Poor (201-300)                                            | 251-350                | 91-120                  | 181-280               | 169-208             | 10-17                        | 381-800               | 801-1200              | 2.1-3.0  |
| Very poor (301-400)                                       | 351-430                | 121-250                 | 281-400               | 209-748*            | 17-34                        | 801-1600              | 1200-1800             | 3.1-3.5  |
| Severe (401-500)                                          | 430 +                  | 250+                    | 400+                  | 748+*               | 34+                          | 1600+                 | 1800+                 | 3.5+     |

| Table 2: AQI : Associated Health Impacts |                                                                                                                                                                |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AQI                                      | Associated Health Impacts                                                                                                                                      |
| Severe (401-500)                         | SEVERE : May cause respiratory effects even on healthy people and serious health effect on people with lung/heart diseases                                     |
| Very Poor (301-400)                      | VERY-POOR: May cause respiratory illness to the people on prolonged exposure. Effect may be more pronounced in people with lung and heart diseases             |
| Poor (201-300)                           | POOR : May cause breathing discomfort to people on prolonged exposure and discomfort to people with heart disease                                              |
| Moderate (101-200)                       | MODERATE : May cause breathing discomfort to the people with lung disease such as asthma and discomfort to people with heart disease Children and older adults |
| Satisfactory (51-100)                    | SATISFACTORY : May cause minor breathing discomfort to sensitive people                                                                                        |
| Good (0-50)                              | GOOD : Minimal impact                                                                                                                                          |

| Station: Near Old GSPCB office |            |                                                                         |                   |                 |                 |      |                |       | City :Panaji |              |
|--------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|--------------|--------------|
| Duration:-February - 2025      |            |                                                                         |                   |                 |                 |      |                |       |              |              |
| Sr.No                          |            | Time Weighted Average (TWA)                                             |                   |                 |                 |      |                |       | AQI          | AIR<br>QLTY  |
|                                |            | 24-Hr                                                                   | 24-Hr             | 24-Hr           | 24-Hr           | 1-Hr | 1-Hr           | 24-Hr |              |              |
|                                | Parameters | Pollutants concentration in µg/m3<br>(except for *CO which is in mg/m3) |                   |                 |                 |      |                |       |              |              |
|                                | Date       | PM <sub>10</sub>                                                        | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO  | O <sub>3</sub> | Pb    |              |              |
| 1                              | 04-02-2025 | 74                                                                      | 38                | 12              | 17              | 0.82 | 17.50          | 0.08  | 74           | Satisfactory |
| 2                              | 07-02-2025 | 69                                                                      | 36                | 11              | 15              | 1.12 | 18.73          | 0.03  | 69           | Satisfactory |
| 3                              | 11-02-2025 | 80                                                                      | 40                | 11              | 17              | 1.01 | 18.56          | 0.06  | 80           | Satisfactory |
| 4                              | 14-02-2025 | 77                                                                      | 37                | 11              | 17              | 0.97 | 17.32          | 0.05  | 77           | Satisfactory |
| 5                              | 18-02-2025 | 71                                                                      | 35                | 9               | 15              | 1.15 | 20.42          | 0.02  | 71           | Satisfactory |
| 6                              | 21-02-2025 | 78                                                                      | 40                | 12              | 16              | 0.93 | 19.80          | 0.03  | 78           | Satisfactory |
| 7                              | 25-02-2025 | 84                                                                      | 39                | 9               | 15              | 1.24 | 21.65          | 0.05  | 84           | Satisfactory |
| 8                              | 28-02-2025 | 72                                                                      | 35                | 11              | 16              | 1.19 | 22.58          | 0.04  | 72           | Satisfactory |

| Station: Within the premises of Municipality building |            |                                                                      |                   |                 |                 |      |                |       | City :Mapusa |              |
|-------------------------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|--------------|--------------|
| Duration:-February - 2025                             |            |                                                                      |                   |                 |                 |      |                |       |              |              |
| Sr.No                                                 |            | Time Weighted Average (TWA)                                          |                   |                 |                 |      |                |       | AQI          | AIR QLTY     |
|                                                       |            | 24-Hr                                                                | 24-Hr             | 24-Hr           | 24-Hr           | 1-Hr | 1-Hr           | 24-Hr |              |              |
|                                                       | Parameters | Pollutants concentration in µg/m3 (except for *CO which is in mg/m3) |                   |                 |                 |      |                |       |              |              |
|                                                       | Date       | PM <sub>10</sub>                                                     | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO  | O <sub>3</sub> | Pb    |              |              |
| 1                                                     | 01-02-2025 | 85                                                                   | 44                | 13              | 18              | 1.26 | 19             | 0.04  | 85           | Satisfactory |
| 2                                                     | 04-02-2025 | 77                                                                   | 39                | 12              | 17              | 1.14 | 18             | 0.05  | 77           | Satisfactory |
| 3                                                     | 08-02-2025 | 91                                                                   | 45                | 12              | 18              | 0.96 | 18             | 0.04  | 91           | Satisfactory |
| 4                                                     | 11-02-2025 | 81                                                                   | 41                | 12              | 16              | 1.3  | 19             | 0.06  | 81           | Satisfactory |
| 5                                                     | 15-02-2025 | 76                                                                   | 39                | 10              | 17              | 1.05 | 18             | 0.05  | 76           | Satisfactory |
| 6                                                     | 18-02-2025 | 84                                                                   | 43                | 11              | 17              | 0.87 | 19             | 0.08  | 84           | Satisfactory |
| 7                                                     | 22-02-2025 | 79                                                                   | 37                | 12              | 17              | 1.29 | 19             | 0.06  | 79           | Satisfactory |
| 8                                                     | 25-02-2025 | 72                                                                   | 35                | 12              | 17              | 1.18 | 20             | 0.05  | 72           | Satisfactory |

| Station: MPT Quarters    |            |                                   |                   |                 |                 |                 | City: Baina |              |
|--------------------------|------------|-----------------------------------|-------------------|-----------------|-----------------|-----------------|-------------|--------------|
| Duration:- February-2025 |            |                                   |                   |                 |                 |                 |             |              |
| Sr.No                    |            | Time Weighted Average (TWA)       |                   |                 |                 |                 | AQI         | AIR QLTY     |
|                          |            | 24-Hr                             | 24-Hr             | 24-Hr           | 24-Hr           | 24-Hr           |             |              |
|                          | Parameters | Pollutants concentration in µg/m3 |                   |                 |                 |                 |             |              |
|                          | Date       | PM <sub>10</sub>                  | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | NH <sub>3</sub> |             |              |
| 1                        | 05-02-2025 | 94                                | 48                | 2               | 5               | 22              | 94          | Satisfactory |
| 2                        | 07-02-2025 | 85                                | 45                | 2               | 10              | 10              | 85          | Satisfactory |
| 3                        | 12-02-2025 | 86                                | 50                | 2               | 11              | 10              | 86          | Satisfactory |
| 4                        | 14-02-2025 | 86                                | 45                | 2               | 13              | 10              | 86          | Satisfactory |
| 5                        | 19-02-2025 | 39                                | 23                | 2               | 5               | 10              | 39          | Good         |
| 6                        | 21-02-2025 | 70                                | 52                | 2               | 5               | 10              | 87          | Satisfactory |
| 7                        | 26-02-2025 | 116                               | 54                | 2               | 5               | 22              | 111         | Moderate     |
| 8                        | 28-02-2025 | 99                                | 47                | 2               | 16              | 10              | 99          | Satisfactory |

| Station: Roof top of Municipal market |            |                                                                         |                   |                 |                 |      |                |       | City: Ponda |              |
|---------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|-------------|--------------|
| Duration:-February - 2025             |            |                                                                         |                   |                 |                 |      |                |       |             |              |
| Sr.No                                 |            | Time Weighted Average (TWA)                                             |                   |                 |                 |      |                |       | AQI         | AIR<br>QLTY  |
|                                       |            | 24-Hr                                                                   | 24-Hr             | 24-Hr           | 24-Hr           | 1-Hr | 1-Hr           | 24-Hr |             |              |
|                                       | Parameters | Pollutants concentration in µg/m3<br>(except for *CO which is in mg/m3) |                   |                 |                 |      |                |       |             |              |
|                                       | Date       | PM <sub>10</sub>                                                        | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO  | O <sub>3</sub> | Pb    |             |              |
| 1                                     | 03-02-2025 | 85                                                                      | 40                | 13              | 18              | 1.28 | 18             | 0.03  | 85          | Satisfactory |
| 2                                     | 06-02-2025 | 74                                                                      | 38                | 12              | 18              | 0.96 | 18             | 0.04  | 74          | Satisfactory |
| 3                                     | 10-02-2025 | 80                                                                      | 39                | 11              | 16              | 1.13 | 18             | 0.06  | 80          | Satisfactory |
| 4                                     | 13-02-2025 | 72                                                                      | 36                | 12              | 17              | 1.02 | 18             | 0.04  | 72          | Satisfactory |
| 5                                     | 17-02-2025 | 80                                                                      | 38                | 12              | 17              | 0.69 | 19             | 0.02  | 80          | Satisfactory |
| 6                                     | 20-02-2025 | 86                                                                      | 43                | 11              | 17              | 0.84 | 19             | 0.04  | 86          | Satisfactory |
| 7                                     | 24-02-2025 | 76                                                                      | 36                | 13              | 17              | 1.17 | 20             | 0.05  | 76          | Satisfactory |
| 8                                     | 27-02-2025 | 81                                                                      | 41                | 11              | 16              | 0.93 | 20             | 0.03  | 81          | Satisfactory |

| Station: Rooftop of Ravindra Bhavan Building |            |                                                                      |                   |                 |                 |       |                | City:-Margao |     |              |
|----------------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|--------------|-----|--------------|
| Duration:- February 2025                     |            |                                                                      |                   |                 |                 |       |                |              |     |              |
| Sr.No                                        |            | Time Weighted Average (TWA)                                          |                   |                 |                 |       |                |              | AQI | AIR QLTy     |
|                                              |            | 24-Hr                                                                | 24-Hr             | 24-Hr           | 24-Hr           | 24-Hr | 24-Hr          | 24-Hr        |     |              |
|                                              | Parameters | Pollutants concentration in µg/m3 (except for *CO which is in mg/m3) |                   |                 |                 |       |                |              |     |              |
|                                              | Date       | PM <sub>10</sub>                                                     | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO   | O <sub>3</sub> | Pb           |     |              |
| 1                                            | 05-02-2025 | 72                                                                   | 36                | 11              | 16              | 0.96  | 18             | 0.03         | 72  | Satisfactory |
| 2                                            | 07-02-2025 | 64                                                                   | 34                | 11              | 16              | 1.07  | 18             | 0.07         | 64  | Satisfactory |
| 3                                            | 12-02-2025 | 69                                                                   | 38                | 10              | 14              | 0.92  | 18             | 0.06         | 69  | Satisfactory |
| 4                                            | 14-02-2025 | 75                                                                   | 37                | 11              | 16              | 0.81  | 18             | 0.04         | 75  | Satisfactory |
| 5                                            | 19-02-2025 | 67                                                                   | 34                | 12              | 15              | 1.15  | 19             | 0.05         | 67  | Satisfactory |
| 6                                            | 21-02-2025 | 73                                                                   | 38                | 10              | 15              | 1.26  | 20             | 0.04         | 73  | Satisfactory |
| 7                                            | 26-02-2025 | 79                                                                   | 39                | 10              | 15              | 1.04  | 19             | 0.06         | 79  | Satisfactory |
| 8                                            | 28-02-2025 | 66                                                                   | 32                | 11              | 15              | 0.88  | 20             | 0.05         | 66  | Satisfactory |

| Station: Residence of Mr. Rama Naik, Assanora Junction |            |                                                                         |                   |                 |                 |      |                |       | City: Assanora |              |
|--------------------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|----------------|--------------|
| Duration: February- 2025                               |            |                                                                         |                   |                 |                 |      |                |       |                |              |
| Sr.No                                                  |            | Time Weighted Average (TWA)                                             |                   |                 |                 |      |                |       | AQI            | AIR<br>QLTY  |
|                                                        |            | 24-Hr                                                                   | 24-Hr             | 24-Hr           | 24-Hr           | 1-Hr | 1-Hr           | 24-Hr |                |              |
|                                                        | Parameters | Pollutants concentration in µg/m3<br>(except for *CO which is in mg/m3) |                   |                 |                 |      |                |       |                |              |
|                                                        | Date       | PM <sub>10</sub>                                                        | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO  | O <sub>3</sub> | Pb    |                |              |
| 1                                                      | 04-02-2025 | 76                                                                      | 39                | 10              | 14              | 0.62 | 17             | 0.03  | 76             | Satisfactory |
| 2                                                      | 07-02-2025 | 69                                                                      | 34                | 10              | 15              | 0.96 | 18             | 0.04  | 69             | Satisfactory |
| 3                                                      | 11-02-2025 | 71                                                                      | 36                | 10              | 14              | 0.70 | 18             | 0.03  | 71             | Satisfactory |
| 4                                                      | 14-02-2025 | 67                                                                      | 32                | 9               | 16              | 0.91 | 18             | 0.04  | 67             | Satisfactory |
| 5                                                      | 18-02-2025 | 73                                                                      | 35                | 10              | 15              | 1.04 | 19             | 0.03  | 73             | Satisfactory |
| 6                                                      | 21-02-2025 | 78                                                                      | 39                | 10              | 15              | 0.82 | 19             | 0.02  | 78             | Satisfactory |
| 7                                                      | 26-02-2025 | 71                                                                      | 32                | 11              | 15              | 0.93 | 18             | 0.04  | 71             | Satisfactory |
| 8                                                      | 28-02-2025 | 64                                                                      | 35                | 10              | 16              | 0.98 | 20             | 0.03  | 64             | Satisfactory |

| Station: Residence of Mr. Sagun Ramkrishna Fadte |            |                                                                         |                   |                 |                 |      |                |       | City: Amona |              |
|--------------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|-------------|--------------|
| Duration:- -February - 2025                      |            |                                                                         |                   |                 |                 |      |                |       |             |              |
| Sr.No                                            |            | Time Weighted Average (TWA)                                             |                   |                 |                 |      |                |       | AQI         | AIR QLTY     |
|                                                  |            | 24-Hr                                                                   | 24-Hr             | 24-Hr           | 24-Hr           | 1-Hr | 1-Hr           | 24-Hr |             |              |
|                                                  | Parameters | Pollutants concentration in µg/m3<br>(except for *CO which is in mg/m3) |                   |                 |                 |      |                |       |             |              |
|                                                  | Date       | PM <sub>10</sub>                                                        | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO  | O <sub>3</sub> | Pb    |             |              |
| 1                                                | 01-02-2025 | 87                                                                      | 46                | 11              | 17              | 1.22 | 19             | 0.04  | 87          | Satisfactory |
| 2                                                | 04-02-2025 | 76                                                                      | 37                | 11              | 15              | 0.97 | 20             | 0.08  | 76          | Satisfactory |
| 3                                                | 08-02-2025 | 68                                                                      | 33                | 10              | 15              | 1.09 | 19             | 0.05  | 68          | Satisfactory |
| 4                                                | 11-02-2025 | 73                                                                      | 38                | 12              | 17              | 0.76 | 19             | 0.08  | 73          | Satisfactory |
| 5                                                | 15-02-2025 | 70                                                                      | 35                | 11              | 16              | 0.85 | 18             | 0.10  | 70          | Satisfactory |
| 6                                                | 18-02-2025 | 65                                                                      | 32                | 10              | 15              | 1.14 | 20             | 0.05  | 65          | Satisfactory |
| 7                                                | 22-02-2025 | 78                                                                      | 37                | 12              | 17              | 1.28 | 19             | 0.08  | 78          | Satisfactory |
| 8                                                | 25-02-2025 | 72                                                                      | 34                | 11              | 16              | 1.03 | 22             | 0.05  | 72          | Satisfactory |

| Station: Municipality Building |            |                                                                         |                   |                 | City: Bicholim  |      |                |       |     |              |
|--------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|-----|--------------|
| Duration:February - 2025       |            |                                                                         |                   |                 |                 |      |                |       |     |              |
| Sr.No                          |            | Time Weighted Average (TWA)                                             |                   |                 |                 |      |                |       | AQI | AIR<br>QLTY  |
|                                |            | 24-Hr                                                                   | 24-Hr             | 24-Hr           | 24-Hr           | 1-Hr | 1-Hr           | 24-Hr |     |              |
|                                | Parameters | Pollutants concentration in µg/m3<br>(except for *CO which is in mg/m3) |                   |                 |                 |      |                |       |     |              |
|                                | Date       | PM <sub>10</sub>                                                        | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO  | O <sub>3</sub> | Pb    |     |              |
| 1                              | 04-02-2025 | 83                                                                      | 40                | 12              | 18              | 1.07 | 18             | 0.18  | 83  | Satisfactory |
| 2                              | 07-02-2025 | 89                                                                      | 43                | 13              | 18              | 1.38 | 20             | 0.17  | 89  | Satisfactory |
| 3                              | 11-02-2025 | 85                                                                      | 41                | 13              | 17              | 1.23 | 19             | 0.18  | 85  | Satisfactory |
| 4                              | 14-02-2025 | 90                                                                      | 45                | 13              | 18              | 1.17 | 20             | 0.20  | 90  | Satisfactory |
| 5                              | 18-02-2025 | 95                                                                      | 45                | 13              | 17              | 0.98 | 22             | 0.15  | 95  | Satisfactory |
| 6                              | 21-02-2025 | 87                                                                      | 41                | 13              | 18              | 0.85 | 21             | 0.18  | 87  | Satisfactory |
| 7                              | 25-02-2025 | 81                                                                      | 38                | 13              | 18              | 1.04 | 23             | 0.16  | 81  | Satisfactory |
| 8                              | 28-02-2025 | 90                                                                      | 44                | 12              | 17              | 1.15 | 21             | 0.14  | 90  | Satisfactory |

| Station: Near Ajoba temple, Honda junction |            |                                                                      |                   |                 |                 |      |                |       | City: Honda |              |
|--------------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|-------------|--------------|
| Duration:- February - 2025                 |            |                                                                      |                   |                 |                 |      |                |       |             |              |
| Sr.No                                      |            | Time Weighted Average (TWA)                                          |                   |                 |                 |      |                |       | AQI         | AIR QLTY     |
|                                            |            | 24-Hr                                                                | 24-Hr             | 24-Hr           | 24-Hr           | 1-Hr | 1-Hr           | 24-Hr |             |              |
|                                            | Parameters | Pollutants concentration in µg/m3 (except for *CO which is in mg/m3) |                   |                 |                 |      |                |       |             |              |
|                                            | Date       | PM <sub>10</sub>                                                     | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO  | O <sub>3</sub> | Pb    |             |              |
| 1                                          | 03-02-2025 | 74                                                                   | 33                | 10              | 15              | 1.02 | 18             | 0.03  | 74          | Satisfactory |
| 2                                          | 06-02-2025 | 89                                                                   | 44                | 10              | 14              | 0.96 | 16             | 0.04  | 89          | Satisfactory |
| 3                                          | 10-02-2025 | 83                                                                   | 41                | 10              | 15              | 1.17 | 18             | 0.05  | 83          | Satisfactory |
| 4                                          | 13-02-2025 | 76                                                                   | 36                | 10              | 14              | 0.83 | 19             | 0.08  | 76          | Satisfactory |
| 5                                          | 17-02-2025 | 80                                                                   | 39                | 10              | 15              | 1.09 | 20             | 0.09  | 80          | Satisfactory |
| 6                                          | 20-02-2025 | 73                                                                   | 36                | 10              | 15              | 1.05 | 19             | 0.08  | 73          | Satisfactory |
| 7                                          | 24-02-2025 | 76                                                                   | 37                | 10              | 13              | 0.84 | 21             | 0.05  | 76          | Satisfactory |
| 8                                          | 27-02-2025 | 86                                                                   | 42                | 11              | 15              | 1.21 | 19             | 0.07  | 86          | Satisfactory |

| Station:- Usgao Junction |            |                                                                      |                   |                 |                 |       |                | City:-Usgao |     |              |
|--------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------------|-----|--------------|
| Duration:- February-2025 |            |                                                                      |                   |                 |                 |       |                |             |     |              |
| Sr.No                    |            | Time Weighted Average (TWA)                                          |                   |                 |                 |       |                |             | AQI | AIR QLTy     |
|                          |            | 24-Hr                                                                | 24-Hr             | 24-Hr           | 24-Hr           | 24-Hr | 24-Hr          | 24-Hr       |     |              |
|                          | Parameters | Pollutants concentration in µg/m3 (except for *CO which is in mg/m3) |                   |                 |                 |       |                |             |     |              |
|                          | Date       | PM <sub>10</sub>                                                     | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO   | O <sub>3</sub> | Pb          |     |              |
| 1                        | 03-02-2025 | 77                                                                   | 38                | 12              | 17              | 1.21  | 18             | 0.02        | 77  | Satisfactory |
| 2                        | 06-02-2025 | 84                                                                   | 45                | 11              | 16              | 0.97  | 18             | 0.03        | 84  | Satisfactory |
| 3                        | 10-02-2025 | 88                                                                   | 41                | 11              | 16              | 1.10  | 16             | 0.02        | 88  | Satisfactory |
| 4                        | 13-02-2025 | 81                                                                   | 40                | 12              | 17              | 1.15  | 17             | 0.01        | 81  | Satisfactory |
| 5                        | 17-02-2025 | 73                                                                   | 36                | 12              | 16              | 0.85  | 17             | 0.03        | 73  | Satisfactory |
| 6                        | 20-02-2025 | 81                                                                   | 39                | 11              | 16              | 0.91  | 20             | 0.02        | 81  | Satisfactory |
| 7                        | 24-02-2025 | 89                                                                   | 45                | 13              | 18              | 1.29  | 19             | 0.04        | 89  | Satisfactory |
| 8                        | 27-02-2025 | 76                                                                   | 38                | 12              | 16              | 1.18  | 21             | 0.02        | 76  | Satisfactory |

| Premises of Somnath English High School |            |                                                                         |                   |                 |                 |       |                |       | City:-Codli |              |
|-----------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|-------------|--------------|
| Duration:- February -2025               |            |                                                                         |                   |                 |                 |       |                |       |             |              |
| Sr.No                                   |            | Time Weighted Average (TWA)                                             |                   |                 |                 |       |                |       | AQI         | AIR<br>QLTY  |
|                                         |            | 24-Hr                                                                   | 24-Hr             | 24-Hr           | 24-Hr           | 24-Hr | 24-Hr          | 24-Hr |             |              |
|                                         | Parameters | Pollutants concentration in µg/m3<br>(except for *CO which is in mg/m3) |                   |                 |                 |       |                |       |             |              |
|                                         | Date       | PM <sub>10</sub>                                                        | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO   | O <sub>3</sub> | Pb    |             |              |
| 1                                       | 01-02-2025 | 65                                                                      | 34                | 11              | 15              | 0.82  | 17             | 0.04  | 65          | Satisfactory |
| 2                                       | 05-02-2025 | 70                                                                      | 33                | 9               | 14              | 1.12  | 18             | 0.05  | 70          | Satisfactory |
| 3                                       | 08-02-2025 | 78                                                                      | 37                | 10              | 15              | 0.95  | 18             | 0.06  | 78          | Satisfactory |
| 4                                       | 12-02-2025 | 68                                                                      | 35                | 10              | 14              | 1.06  | 19             | 0.07  | 68          | Satisfactory |
| 5                                       | 15-02-2025 | 62                                                                      | 32                | 10              | 14              | 0.73  | 17             | 0.05  | 62          | Satisfactory |
| 6                                       | 19-02-2025 | 62                                                                      | 32                | 10              | 14              | 0.98  | 20             | 0.06  | 62          | Satisfactory |
| 7                                       | 22-02-2025 | 67                                                                      | 34                | 10              | 15              | 1.19  | 18             | 0.07  | 67          | Satisfactory |
| 8                                       | 26-02-2025 | 72                                                                      | 36                | 10              | 15              | 1.02  | 19             | 0.04  | 72          | Satisfactory |

| Station: Rooftop of Sanguem Municipality Building |            |                                                                      |                   |                 |                 |       |                | City: Sanguem |     |              |
|---------------------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|---------------|-----|--------------|
| Duration:- February -2025                         |            |                                                                      |                   |                 |                 |       |                |               |     |              |
| Sr.No                                             |            | Time Weighted Average (TWA)                                          |                   |                 |                 |       |                |               | AQI | AIR QLTy     |
|                                                   |            | 24-Hr                                                                | 24-Hr             | 24-Hr           | 24-Hr           | 24-Hr | 24-Hr          | 24-Hr         |     |              |
|                                                   | Parameters | Pollutants concentration in µg/m3 (except for *CO which is in mg/m3) |                   |                 |                 |       |                |               |     |              |
|                                                   | Date       | PM <sub>10</sub>                                                     | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO   | O <sub>3</sub> | Pb            |     |              |
| 1                                                 | 01-02-2025 | 66                                                                   | 33                | 9               | 14              | 0.59  | 18             | 0.02          | 66  | Satisfactory |
| 2                                                 | 05-02-2025 | 61                                                                   | 35                | 9               | 14              | 0.67  | 16             | 0.03          | 61  | Satisfactory |
| 3                                                 | 08-02-2025 | 73                                                                   | 38                | 10              | 15              | 0.86  | 17             | 0.02          | 73  | Satisfactory |
| 4                                                 | 12-02-2025 | 67                                                                   | 35                | 10              | 15              | 0.95  | 19             | 0.04          | 67  | Satisfactory |
| 5                                                 | 15-02-2025 | 70                                                                   | 35                | 9               | 15              | 0.74  | 18             | 0.01          | 70  | Satisfactory |
| 6                                                 | 19-02-2025 | 64                                                                   | 32                | 9               | 14              | 1.03  | 19             | 0.02          | 64  | Satisfactory |
| 7                                                 | 22-02-2025 | 76                                                                   | 36                | 10              | 14              | 0.91  | 18             | 0.05          | 76  | Satisfactory |
| 8                                                 | 26-02-2025 | 69                                                                   | 34                | 10              | 14              | 0.88  | 19             | 0.02          | 69  | Satisfactory |

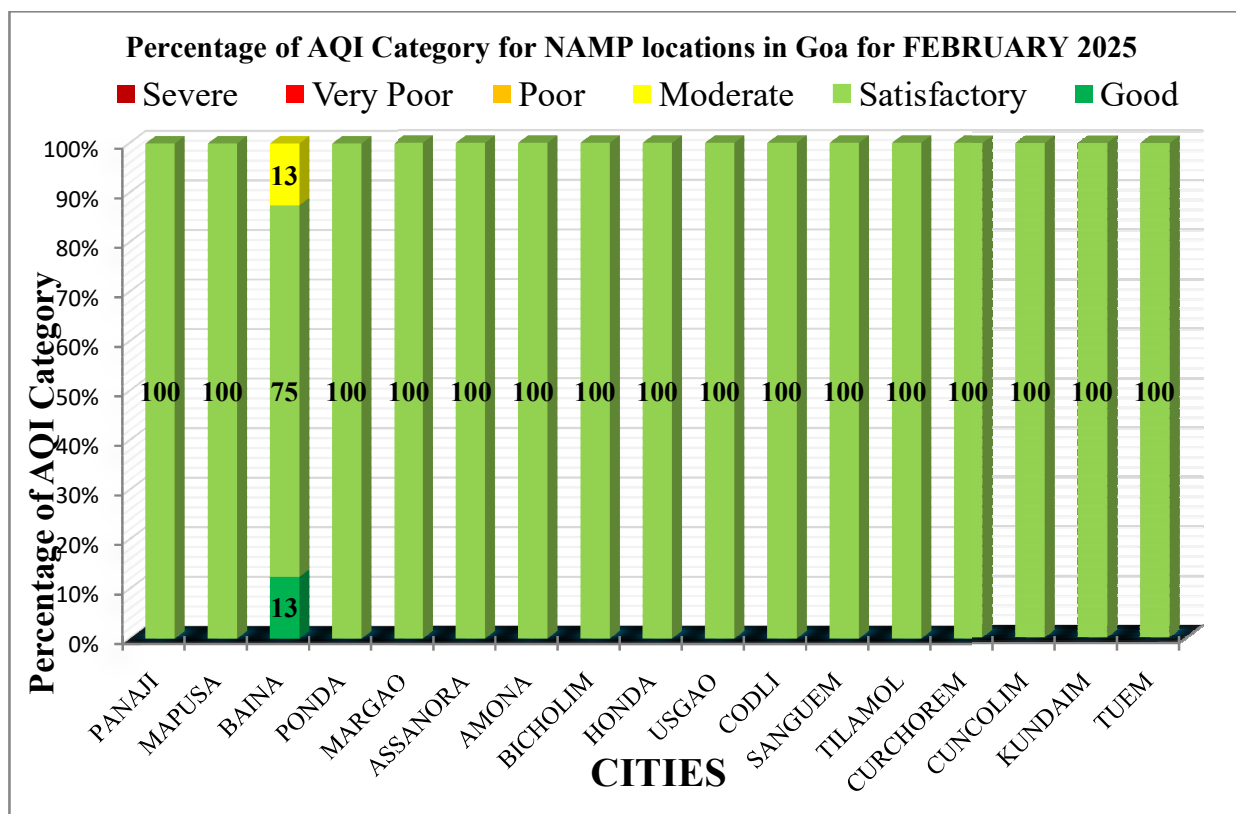
| Station: Tilamol Junction |            |                                                                      |                   |                 |                 |       |                |       | City: Tilamol |              |
|---------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|---------------|--------------|
| Duration:- February-2025  |            |                                                                      |                   |                 |                 |       |                |       |               |              |
| Sr.No                     |            | Time Weighted Average (TWA)                                          |                   |                 |                 |       |                |       | AQI           | AIR<br>QLTY  |
|                           |            | 24-Hr                                                                | 24-Hr             | 24-Hr           | 24-Hr           | 24-Hr | 24-Hr          | 24-Hr |               |              |
|                           | Parameters | Pollutants concentration in µg/m3 (except for *CO which is in mg/m3) |                   |                 |                 |       |                |       |               |              |
|                           | Date       | PM <sub>10</sub>                                                     | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO   | O <sub>3</sub> | Pb    |               |              |
| 1                         | 01-02-2025 | 84                                                                   | 44                | 13              | 18              | 1.31  | 20             | 0.08  | 84            | Satisfactory |
| 2                         | 05-02-2025 | 73                                                                   | 36                | 13              | 18              | 0.84  | 20             | 0.07  | 73            | Satisfactory |
| 3                         | 08-02-2025 | 79                                                                   | 39                | 12              | 17              | 1.14  | 18             | 0.05  | 79            | Satisfactory |
| 4                         | 12-02-2025 | 86                                                                   | 46                | 11              | 18              | 0.92  | 19             | 0.07  | 86            | Satisfactory |
| 5                         | 15-02-2025 | 80                                                                   | 41                | 12              | 18              | 0.75  | 19             | 0.09  | 80            | Satisfactory |
| 6                         | 19-02-2025 | 75                                                                   | 38                | 12              | 19              | 0.87  | 20             | 0.05  | 75            | Satisfactory |
| 7                         | 22-02-2025 | 82                                                                   | 38                | 12              | 17              | 1.02  | 20             | 0.06  | 82            | Satisfactory |
| 8                         | 26-02-2025 | 76                                                                   | 36                | 13              | 19              | 1.23  | 22             | 0.08  | 76            | Satisfactory |

| Rooftop of Electricity panel room at GSUDA market |            |                                                                         |                   |                 |                 |       |                |       | City:-Curchorem |              |
|---------------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|-----------------|--------------|
| Duration:- February-2025                          |            |                                                                         |                   |                 |                 |       |                |       |                 |              |
| Sr.No                                             |            | Time Weighted Average (TWA)                                             |                   |                 |                 |       |                |       | AQI             | AIR<br>QLTY  |
|                                                   |            | 24-Hr                                                                   | 24-Hr             | 24-Hr           | 24-Hr           | 24-Hr | 24-Hr          | 24-Hr |                 |              |
|                                                   | Parameters | Pollutants concentration in µg/m3<br>(except for *CO which is in mg/m3) |                   |                 |                 |       |                |       |                 |              |
|                                                   | Date       | PM <sub>10</sub>                                                        | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO   | O <sub>3</sub> | Pb    |                 |              |
| 1                                                 | 01-02-2025 | 85                                                                      | 44                | 13              | 19              | 1.15  | 20             | 0.07  | 85              | Satisfactory |
| 2                                                 | 05-02-2025 | 74                                                                      | 38                | 13              | 17              | 1.03  | 21             | 0.10  | 74              | Satisfactory |
| 3                                                 | 08-02-2025 | 78                                                                      | 37                | 14              | 18              | 0.94  | 18             | 0.13  | 78              | Satisfactory |
| 4                                                 | 12-02-2025 | 84                                                                      | 44                | 13              | 18              | 1.26  | 19             | 0.08  | 84              | Satisfactory |
| 5                                                 | 15-02-2025 | 73                                                                      | 31                | 13              | 18              | 1.17  | 20             | 0.12  | 73              | Satisfactory |
| 6                                                 | 19-02-2025 | 80                                                                      | 38                | 13              | 18              | 1.32  | 21             | 0.10  | 80              | Satisfactory |
| 7                                                 | 22-02-2025 | 75                                                                      | 35                | 12              | 17              | 0.88  | 19             | 0.12  | 75              | Satisfactory |
| 8                                                 | 26-02-2025 | 71                                                                      | 38                | 11              | 16              | 1.04  | 20             | 0.10  | 71              | Satisfactory |

| Station: Rooftop of Power Station, Cuncolim Ind Estate |            |                                                                                              |                   |                 |                 |       |                |       |       | City: Cuncolim |              |
|--------------------------------------------------------|------------|----------------------------------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|-------|----------------|--------------|
| Duration:- February -2025                              |            |                                                                                              |                   |                 |                 |       |                |       |       |                |              |
| Sr.No                                                  |            | Time Weighted Average (TWA)                                                                  |                   |                 |                 |       |                |       |       | AQI            | AIR QLTy     |
|                                                        |            | 24-Hr                                                                                        | 24-Hr             | 24-Hr           | 24-Hr           | 24-Hr | 24-Hr          | 24-Hr | 24-Hr |                |              |
|                                                        | Parameters | Pollutants concentration in µg/m3 (except for *CO which is in mg/m3 & As which is in ng/m3 ) |                   |                 |                 |       |                |       |       |                |              |
|                                                        | Date       | PM <sub>10</sub>                                                                             | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO   | O <sub>3</sub> | As    | Pb    |                |              |
| 1                                                      | 01-02-2025 | 76                                                                                           | 39                | 12              | 19              | 1.32  | 20             | 0.35  | 0.15  | 76             | Satisfactory |
| 2                                                      | 05-02-2025 | 69                                                                                           | 36                | 11              | 17              | 0.86  | 20             | 0.39  | 0.12  | 69             | Satisfactory |
| 3                                                      | 08-02-2025 | 82                                                                                           | 44                | 13              | 17              | 1.22  | 18             | 0.37  | 0.05  | 82             | Satisfactory |
| 4                                                      | 12-02-2025 | 86                                                                                           | 48                | 12              | 17              | 1.17  | 19             | 0.68  | 0.15  | 86             | Satisfactory |
| 5                                                      | 15-02-2025 | 78                                                                                           | 37                | 12              | 18              | 0.94  | 19             | 0.61  | 0.17  | 78             | Satisfactory |
| 6                                                      | 19-02-2025 | 72                                                                                           | 35                | 13              | 17              | 1.05  | 21             | 0.53  | 0.14  | 72             | Satisfactory |
| 7                                                      | 22-02-2025 | 81                                                                                           | 37                | 11              | 16              | 1.28  | 24             | 0.48  | 0.15  | 81             | Satisfactory |
| 8                                                      | 26-02-2025 | 76                                                                                           | 32                | 13              | 18              | 1.21  | 22             | 0.40  | 0.13  | 76             | Satisfactory |

| Station: Near IDC Office   |            |                                                                         |                   |                 |                 |      |                |       | City: Kundaim |              |
|----------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|---------------|--------------|
| Duration:- February - 2025 |            |                                                                         |                   |                 |                 |      |                |       |               |              |
| Sr.No                      |            | Time Weighted Average (TWA)                                             |                   |                 |                 |      |                |       | AQI           | AIR<br>QLTY  |
|                            |            | 24-Hr                                                                   | 24-Hr             | 24-Hr           | 24-Hr           | 1-Hr | 1-Hr           | 24-Hr |               |              |
|                            | Parameters | Pollutants concentration in µg/m3<br>(except for *CO which is in mg/m3) |                   |                 |                 |      |                |       |               |              |
|                            | Date       | PM <sub>10</sub>                                                        | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO  | O <sub>3</sub> | Pb    |               |              |
| 1                          | 03-02-2025 | 91                                                                      | 43                | 13              | 18              | 1.27 | 20             | 0.52  | 91            | Satisfactory |
| 2                          | 06-02-2025 | 85                                                                      | 43                | 13              | 18              | 1.23 | 20             | 0.38  | 85            | Satisfactory |
| 3                          | 10-02-2025 | 92                                                                      | 43                | 13              | 18              | 1.16 | 18             | 0.47  | 92            | Satisfactory |
| 4                          | 13-02-2025 | 85                                                                      | 43                | 12              | 18              | 1.07 | 19             | 0.38  | 85            | Satisfactory |
| 5                          | 17-02-2025 | 77                                                                      | 43                | 14              | 19              | 1.15 | 20             | 0.34  | 77            | Satisfactory |
| 6                          | 20-02-2025 | 86                                                                      | 43                | 12              | 17              | 0.98 | 22             | 0.29  | 86            | Satisfactory |
| 7                          | 24-02-2025 | 81                                                                      | 43                | 13              | 18              | 1.31 | 22             | 0.41  | 81            | Satisfactory |
| 8                          | 27-02-2025 | 75                                                                      | 43                | 12              | 18              | 1.12 | 23             | 0.25  | 75            | Satisfactory |

| Station: Near ESIC Hospital , Tuem Industrial Estate |            |                                                                         |                   |                 |                 |      |                |       | City: Tuem |              |
|------------------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|------------|--------------|
| Duration: February - 2025                            |            |                                                                         |                   |                 |                 |      |                |       |            |              |
| Sr.No                                                |            | Time Weighted Average (TWA)                                             |                   |                 |                 |      |                |       | AQI        | AIR<br>QLTY  |
|                                                      |            | 24-Hr                                                                   | 24-Hr             | 24-Hr           | 24-Hr           | 1-Hr | 1-Hr           | 24-Hr |            |              |
|                                                      | Parameters | Pollutants concentration in µg/m3<br>(except for *CO which is in mg/m3) |                   |                 |                 |      |                |       |            |              |
|                                                      | Date       | PM <sub>10</sub>                                                        | PM <sub>2.5</sub> | SO <sub>2</sub> | NO <sub>2</sub> | *CO  | O <sub>3</sub> | Pb    |            |              |
| 1                                                    | 04-02-2025 | 74                                                                      | 36                | 13              | 18              | 1.06 | 20             | 0.023 | 74         | Satisfactory |
| 2                                                    | 07-02-2025 | 79                                                                      | 39                | 12              | 18              | 1.25 | 19             | 0.053 | 79         | Satisfactory |
| 3                                                    | 11-02-2025 | 65                                                                      | 32                | 11              | 17              | 0.92 | 19             | 0.043 | 65         | Satisfactory |
| 4                                                    | 14-02-2025 | 72                                                                      | 34                | 12              | 18              | 0.88 | 18             | 0.030 | 72         | Satisfactory |
| 5                                                    | 18-02-2025 | 64                                                                      | 32                | 12              | 16              | 1.13 | 22             | 0.047 | 64         | Satisfactory |
| 6                                                    | 21-02-2025 | 69                                                                      | 35                | 12              | 18              | 0.83 | 20             | 0.060 | 69         | Satisfactory |
| 7                                                    | 25-02-2025 | 76                                                                      | 38                | 12              | 18              | 1.10 | 20             | 0.027 | 76         | Satisfactory |
| 8                                                    | 28-02-2025 | 65                                                                      | 33                | 11              | 16              | 1.19 | 23             | 0.042 | 65         | Satisfactory |



### **Results and Interpretation:**

It is seen that during the month of February 2025, out of 17 locations AQI is -

Dominantly Satisfactory at all 17 locations namely – Panaji, Mapusa, Baina, Ponda, Margao, Assanora, Amona, Bicholim, Honda, Usgao, Codli, Sanguem, Tilamol, Curchorem, Cuncolim, Kundaim and Tuem

*(Dominant refers to 75% and above)*