

# MONTHLY AAQM DATA ALONG WITH AQI FOR 18 NAMP STATION

**APRIL 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:- - April - 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                              | 01-04-2025 | 75                                                                      | 35                | 11              | 15              | 1.12 | 22.34          | 0.06  | 75           | Satisfactory |
| 2                              | 04-04-2025 | 68                                                                      | 33                | 9               | 13              | 0.84 | 20.34          | 0.04  | 68           | Satisfactory |
| 3                              | 08-04-2025 | 76                                                                      | 37                | 11              | 16              | 1.05 | 23.78          | 0.03  | 76           | Satisfactory |
| 4                              | 11-04-2025 | 72                                                                      | 34                | 11              | 15              | 1.17 | 19.48          | 0.04  | 72           | Satisfactory |
| 5                              | 15-04-2025 | 64                                                                      | 32                | 10              | 14              | 1.23 | 22.34          | 0.02  | 64           | Satisfactory |
| 6                              | 18-04-2025 | 70                                                                      | 34                | 9               | 16              | 0.96 | 20.62          | 0.03  | 70           | Satisfactory |
| 7                              | 22-04-2025 | 78                                                                      | 37                | 11              | 14              | 1.35 | 21.48          | 0.05  | 78           | Satisfactory |
| 8                              | 25-04-2025 | 65                                                                      | 31                | 9               | 14              | 0.73 | 18.33          | 0.03  | 65           | Satisfactory |
| 9                              | 29.04-2025 | 73                                                                      | 35                | 9               | 15              | 0.91 | 20.91          | 0.06  | 73           | Satisfactory |

| Station: Within the premises of Municipality building |            |                                                                         |                   |                 |                 |      |                |       | City :Mapusa |              |
|-------------------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|--------------|--------------|
| Duration:-April - 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                                                     | 01-04-2025 | 78                                                                      | 40                | 11              | 16              | 1.19 | 19             | 0.05  | 78           | Satisfactory |
| 2                                                     | 05-04-2025 | 75                                                                      | 34                | 13              | 17              | 1.03 | 22             | 0.07  | 75           | Satisfactory |
| 3                                                     | 08-04-2025 | 72                                                                      | 34                | 11              | 18              | 1.32 | 21             | 0.05  | 72           | Satisfactory |
| 4                                                     | 11-04-2025 | 83                                                                      | 38                | 11              | 17              | 1.1  | 19             | 0.03  | 83           | Satisfactory |
| 5                                                     | 15-04-2025 | 67                                                                      | 30                | 10              | 15              | 1.25 | 20             | 0.06  | 67           | Satisfactory |
| 6                                                     | 19-04-2025 | 75                                                                      | 37                | 12              | 15              | 1.17 | 23             | 0.04  | 75           | Satisfactory |
| 7                                                     | 22-04-2025 | 81                                                                      | 39                | 9               | 15              | 0.92 | 20             | 0.05  | 81           | Satisfactory |
| 8                                                     | 26-04-2025 | 87                                                                      | 43                | 10              | 17              | 1.06 | 21             | 0.07  | 87           | Satisfactory |
| 9                                                     | 29-04-2025 | 79                                                                      | 37                | 11              | 15              | 1.21 | 20             | 0.04  | 79           | Satisfactory |

| Station: MPT Quarters |            |                                   |                   |                 |                 |                 | City: Baina |              |
|-----------------------|------------|-----------------------------------|-------------------|-----------------|-----------------|-----------------|-------------|--------------|
| Duration:- April-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                     | 02-04-2025 | 68                                | 27                | 4               | 7               | 10              | 68          | Satisfactory |
| 2                     | 04-04-2025 | 58                                | 36                | 8               | 11              | 10              | 60          | Satisfactory |
| 3                     | 09-04-2025 | 26                                | 21                | 2               | 5               | 10              | 35          | Good         |
| 4                     | 11-04-2025 | 47                                | 32                | 5               | 5               | 10              | 53          | Satisfactory |
| 5                     | 15-04-2025 | 47                                | 32                | 2               | 5               | 21              | 53          | Satisfactory |
| 6                     | 17-04-2025 | 26                                | 21                | 2               | 5               | 10              | 35          | Good         |
| 7                     | 23-04-2025 | 31                                | 16                | 2               | 5               | 10              | 31          | Good         |
| 8                     | 25-04-2025 | 32                                | 13                | 2               | 5               | 10              | 32          | Good         |
| 9                     | 29-04-2025 | 42                                | 19                | 2               | 5               | 22              | 42          | Good         |

| Station: Roof top of Municipal market |            |                                                                         |                   |                 |                 |      |                |       | City: Ponda |              |
|---------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|-------------|--------------|
| Duration:-April - 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                                     | 03-04-2025 | 73                                                                      | 33                | 12              | 16              | 1.27 | 24             | 0.05  | 73          | Satisfactory |
| 2                                     | 07-04-2025 | 81                                                                      | 38                | 9               | 15              | 1.08 | 21             | 0.08  | 81          | Satisfactory |
| 3                                     | 10-04-2025 | 84                                                                      | 41                | 11              | 14              | 1.31 | 24             | 0.06  | 84          | Satisfactory |
| 4                                     | 14-04-2025 | 76                                                                      | 36                | 11              | 17              | 1.14 | 22             | 0.05  | 76          | Satisfactory |
| 5                                     | 17-04-2025 | 69                                                                      | 34                | 10              | 14              | 0.97 | 21             | 0.07  | 69          | Satisfactory |
| 6                                     | 21-04-2025 | 77                                                                      | 37                | 11              | 17              | 1.12 | 23             | 0.05  | 77          | Satisfactory |
| 7                                     | 24-04-2025 | 83                                                                      | 39                | 8               | 13              | 0.85 | 22             | 0.06  | 83          | Satisfactory |
| 8                                     | 28-04-2025 | 72                                                                      | 35                | 10              | 15              | 1.23 | 20             | 0.04  | 72          | Satisfactory |

| Station: Rooftop of Ravindra Bhavan Building |            |                                                                         |                   |                 |                 |       |                |       | City:-Margao |              |
|----------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|--------------|--------------|
| Duration:- April 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                                            | 02-04-2025 | 75                                                                      | 36                | 9               | 15              | 1.05  | 21             | 0.06  | 75           | Satisfactory |
| 2                                            | 04-04-2025 | 67                                                                      | 32                | 11              | 15              | 0.89  | 22             | 0.06  | 67           | Satisfactory |
| 3                                            | 09-04-2025 | 71                                                                      | 35                | 10              | 15              | 1.12  | 19             | 0.03  | 71           | Satisfactory |
| 4                                            | 11-04-2025 | 77                                                                      | 36                | 10              | 16              | 0.97  | 22             | 0.02  | 77           | Satisfactory |
| 5                                            | 16-04-2025 | 63                                                                      | 33                | 11              | 15              | 1.09  | 24             | 0.05  | 63           | Satisfactory |
| 6                                            | 18-04-2025 | 68                                                                      | 31                | 9               | 15              | 1.24  | 19             | 0.03  | 68           | Satisfactory |
| 7                                            | 23-04-2025 | 78                                                                      | 35                | 10              | 15              | 0.85  | 20             | 0.04  | 78           | Satisfactory |
| 8                                            | 25-04-2025 | 66                                                                      | 32                | 9               | 13              | 1.17  | 19             | 0.06  | 66           | Satisfactory |
| 9                                            | 30-04-2025 | 72                                                                      | 33                | 10              | 15              | 0.79  | 19             | 0.04  | 72           | Satisfactory |

| Station: Residence of Mr. Rama Naik, Assanora Junction |            |                                                                         |                   |                 |                 |      |                |       | City: Assanora |              |
|--------------------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|----------------|--------------|
| Duration: April - 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                                                      | 01-04-2025 | 67                                                                      | 34                | 9               | 14              | 0.83 | 19             | 0.04  | 67             | Satisfactory |
| 2                                                      | 04-04-2025 | 62                                                                      | 31                | 9               | 13              | 1.12 | 21             | 0.02  | 62             | Satisfactory |
| 3                                                      | 08-04-2025 | 71                                                                      | 33                | 9               | 15              | 1.04 | 20             | 0.05  | 71             | Satisfactory |
| 4                                                      | 11-04-2025 | 74                                                                      | 35                | 8               | 13              | 0.69 | 21             | 0.03  | 74             | Satisfactory |
| 5                                                      | 15-04-2025 | 62                                                                      | 29                | 10              | 14              | 1.18 | 19             | 0.04  | 62             | Satisfactory |
| 6                                                      | 18-04-2025 | 66                                                                      | 33                | 9               | 13              | 0.87 | 21             | 0.02  | 66             | Satisfactory |
| 7                                                      | 22-04-2025 | 76                                                                      | 35                | 9               | 14              | 1.29 | 22             | 0.03  | 76             | Satisfactory |
| 8                                                      | 25-04-2025 | 64                                                                      | 31                | 8               | 14              | 0.75 | 19             | 0.02  | 64             | Satisfactory |
| 9                                                      | 29-04-2025 | 72                                                                      | 34                | 10              | 14              | 0.92 | 19             | 0.05  | 72             | Satisfactory |



| Station: Residence of Mr. Sagun Ramkrishna Fadte |            |                                                                      |                   |                 |                 |      |                |       | City: Amona |              |
|--------------------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|-------------|--------------|
| Duration:- -April - 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                                                | 03-04-2025 | 66                                                                   | 31                | 11              | 17              | 0.95 | 22             | 0.07  | 66          | Satisfactory |
| 2                                                | 07-04-2025 | 69                                                                   | 34                | 10              | 16              | 0.83 | 19             | 0.05  | 69          | Satisfactory |
| 3                                                | 10-04-2025 | 77                                                                   | 37                | 9               | 13              | 1.17 | 23             | 0.06  | 77          | Satisfactory |
| 4                                                | 14-04-2025 | 73                                                                   | 32                | 11              | 16              | 1.24 | 21             | 0.09  | 73          | Satisfactory |
| 5                                                | 17-04-2025 | 64                                                                   | 34                | 11              | 15              | 1.06 | 19             | 0.05  | 64          | Satisfactory |
| 6                                                | 21-04-2025 | 70                                                                   | 33                | 9               | 16              | 0.91 | 21             | 0.07  | 70          | Satisfactory |
| 7                                                | 24-04-2025 | 79                                                                   | 36                | 8               | 15              | 1.12 | 20             | 0.04  | 79          | Satisfactory |
| 8                                                | 28-04-2025 | 67                                                                   | 33                | 11              | 16              | 0.87 | 20             | 0.06  | 67          | Satisfactory |

| Station: Municipality Building |            |                                                                         |                   |                 |                 |      |                | City: Bicholim |     |              |
|--------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|----------------|-----|--------------|
| Duration: April - 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                              | 01-04-2025 | 91                                                                      | 43                | 13              | 18              | 1.39 | 21             | 0.19           | 91  | Satisfactory |
| 2                              | 04-04-2025 | 84                                                                      | 41                | 11              | 16              | 1.15 | 23             | 0.22           | 84  | Satisfactory |
| 3                              | 08-04-2025 | 89                                                                      | 45                | 13              | 17              | 1.07 | 22             | 0.17           | 89  | Satisfactory |
| 4                              | 11-04-2025 | 77                                                                      | 38                | 13              | 17              | 1.24 | 21             | 0.15           | 77  | Satisfactory |
| 5                              | 15-04-2025 | 95                                                                      | 45                | 14              | 18              | 1.18 | 24             | 0.13           | 95  | Satisfactory |
| 6                              | 18-04-2025 | 86                                                                      | 42                | 12              | 18              | 1.02 | 22             | 0.16           | 86  | Satisfactory |
| 7                              | 22-04-2025 | 91                                                                      | 45                | 11              | 16              | 1.11 | 23             | 0.20           | 91  | Satisfactory |
| 8                              | 25-04-2025 | 81                                                                      | 36                | 13              | 19              | 1.29 | 21             | 0.17           | 81  | Satisfactory |
| 9                              | 29-04-2025 | 88                                                                      | 41                | 10              | 16              | 1.08 | 20             | 0.15           | 88  | Satisfactory |

| Station: Near Ajoba temple, Honda junction |            |                                                                      |                   |                 |                 |      |                |       | City: Honda |              |
|--------------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|-------------|--------------|
| Duration:- April - 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                                          | 03-04-2025 | 66                                                                   | 32                | 9               | 14              | 1.05 | 21             | 0.04  | 66          | Satisfactory |
| 2                                          | 07-04-2025 | 72                                                                   | 35                | 10              | 15              | 1.17 | 22             | 0.06  | 72          | Satisfactory |
| 3                                          | 10-04-2025 | 77                                                                   | 39                | 8               | 14              | 0.94 | 21             | 0.03  | 77          | Satisfactory |
| 4                                          | 14-04-2025 | 69                                                                   | 34                | 10              | 16              | 0.89 | 24             | 0.05  | 69          | Satisfactory |
| 5                                          | 17-04-2025 | 64                                                                   | 32                | 9               | 15              | 1.22 | 20             | 0.04  | 64          | Satisfactory |
| 6                                          | 21-04-2025 | 76                                                                   | 37                | 9               | 13              | 0.76 | 22             | 0.07  | 76          | Satisfactory |
| 7                                          | 24-04-2025 | 79                                                                   | 38                | 10              | 15              | 1.10 | 19             | 0.06  | 79          | Satisfactory |
| 8                                          | 28-04-2025 | 72                                                                   | 35                | 10              | 15              | 0.83 | 21             | 0.04  | 72          | Satisfactory |

| Station:- Usgao Junction |            |                                                                      |                   |                 |                 |       |                | City:-Usgao |     |              |
|--------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------------|-----|--------------|
| Duration:- April-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                        | 03-04-2025 | 78                                                                   | 38                | 11              | 16              | 0.92  | 21             | 0.06        | 78  | Satisfactory |
| 2                        | 07-04-2025 | 70                                                                   | 34                | 10              | 17              | 1.15  | 23             | 0.04        | 70  | Satisfactory |
| 3                        | 10-04-2025 | 85                                                                   | 39                | 10              | 15              | 1.29  | 20             | 0.03        | 85  | Satisfactory |
| 4                        | 14-04-2025 | 73                                                                   | 35                | 11              | 17              | 1.04  | 21             | 0.05        | 73  | Satisfactory |
| 5                        | 17-04-2025 | 68                                                                   | 33                | 9               | 15              | 0.87  | 20             | 0.04        | 68  | Satisfactory |
| 6                        | 21-04-2025 | 77                                                                   | 36                | 12              | 16              | 1.23  | 22             | 0.07        | 77  | Satisfactory |
| 7                        | 24-04-2025 | 64                                                                   | 31                | 10              | 15              | 1.10  | 21             | 0.06        | 64  | Satisfactory |
| 8                        | 28-04-2025 | 73                                                                   | 36                | 10              | 14              | 1.34  | 23             | 0.04        | 73  | Satisfactory |

| Premises of Somnath English High School |            |                                                                         |                   |                 |                 |       |                |       | City:-Codli |              |
|-----------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|-------------|--------------|
| Duration:- April -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                                       | 02-04-2025 | 72                                                                      | 34                | 9               | 15              | 1.12  | 22             | 0.06  | 72          | Satisfactory |
| 2                                       | 05-04-2025 | 67                                                                      | 30                | 10              | 14              | 0.74  | 19             | 0.05  | 67          | Satisfactory |
| 3                                       | 09-04-2025 | 59                                                                      | 35                | 8               | 15              | 1.09  | 24             | 0.03  | 59          | Satisfactory |
| 4                                       | 12-04-2025 | 71                                                                      | 33                | 10              | 15              | 0.88  | 21             | 0.06  | 71          | Satisfactory |
| 5                                       | 16-04-2025 | 77                                                                      | 36                | 10              | 16              | 1.23  | 23             | 0.03  | 77          | Satisfactory |
| 6                                       | 19-04-2025 | 64                                                                      | 32                | 9               | 12              | 1.15  | 22             | 0.07  | 64          | Satisfactory |
| 7                                       | 23-04-2025 | 61                                                                      | 28                | 9               | 14              | 0.93  | 21             | 0.05  | 61          | Satisfactory |
| 8                                       | 26-04-2025 | 74                                                                      | 35                | 10              | 16              | 1.02  | 21             | 0.06  | 74          | Satisfactory |
| 9                                       | 30-04-2025 | 65                                                                      | 31                | 9               | 14              | 0.71  | 20             | 0.04  | 65          | Satisfactory |

| Station: Rooftop of Sanguem Municipality Building |            |                                                                      |                   |                 |                 |       |                |       | City: Sanguem |              |
|---------------------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|---------------|--------------|
| Duration:- April -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                                                 | 02-04-2025 | 65                                                                   | 34                | 8               | 13              | 0.94  | 21             | 0.04  | 65            | Satisfactory |
| 2                                                 | 05-04-2025 | 71                                                                   | 31                | 10              | 14              | 0.69  | 18             | 0.02  | 71            | Satisfactory |
| 3                                                 | 09-04-2025 | 62                                                                   | 29                | 9               | 13              | 0.82  | 20             | 0.03  | 62            | Satisfactory |
| 4                                                 | 12-04-2025 | 68                                                                   | 34                | 10              | 15              | 0.77  | 19             | 0.02  | 68            | Satisfactory |
| 5                                                 | 16-04-2025 | 61                                                                   | 30                | 9               | 12              | 1.04  | 21             | 0.04  | 61            | Satisfactory |
| 6                                                 | 19-04-2025 | 74                                                                   | 35                | 9               | 14              | 0.98  | 19             | 0.02  | 74            | Satisfactory |
| 7                                                 | 23-04-2025 | 59                                                                   | 28                | 9               | 14              | 0.63  | 21             | 0.04  | 59            | Satisfactory |
| 8                                                 | 26-04-2025 | 68                                                                   | 32                | 10              | 15              | 0.71  | 20             | 0.03  | 68            | Satisfactory |
| 9                                                 | 30-04-2025 | 60                                                                   | 27                | 9               | 15              | 1.12  | 22             | 0.05  | 60            | Satisfactory |

| Station: Tilamol Junction |            |                                                                      |                   |                 |                 |       |                |       | City: Tilamol |              |
|---------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|---------------|--------------|
| Duration:- April-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                         | 02-04-2025 | 81                                                                   | 37                | 10              | 16              | 1.20  | 21             | 0.06  | 81            | Satisfactory |
| 2                         | 05-04-2025 | 75                                                                   | 35                | 10              | 16              | 1.04  | 18             | 0.04  | 75            | Satisfactory |
| 3                         | 09-04-2025 | 78                                                                   | 40                | 11              | 17              | 0.96  | 23             | 0.07  | 78            | Satisfactory |
| 4                         | 12-04-2025 | 82                                                                   | 36                | 11              | 16              | 1.27  | 19             | 0.05  | 82            | Satisfactory |
| 5                         | 16-04-2025 | 87                                                                   | 43                | 13              | 19              | 1.35  | 23             | 0.08  | 87            | Satisfactory |
| 6                         | 19-04-2025 | 77                                                                   | 35                | 12              | 17              | 1.12  | 21             | 0.06  | 77            | Satisfactory |
| 7                         | 23-04-2025 | 71                                                                   | 33                | 12              | 17              | 1.31  | 24             | 0.04  | 71            | Satisfactory |
| 8                         | 26-04-2025 | 83                                                                   | 38                | 13              | 18              | 1.15  | 21             | 0.05  | 83            | Satisfactory |
| 9                         | 30-04-2025 | 76                                                                   | 34                | 11              | 15              | 0.87  | 22             | 0.07  | 76            | Satisfactory |

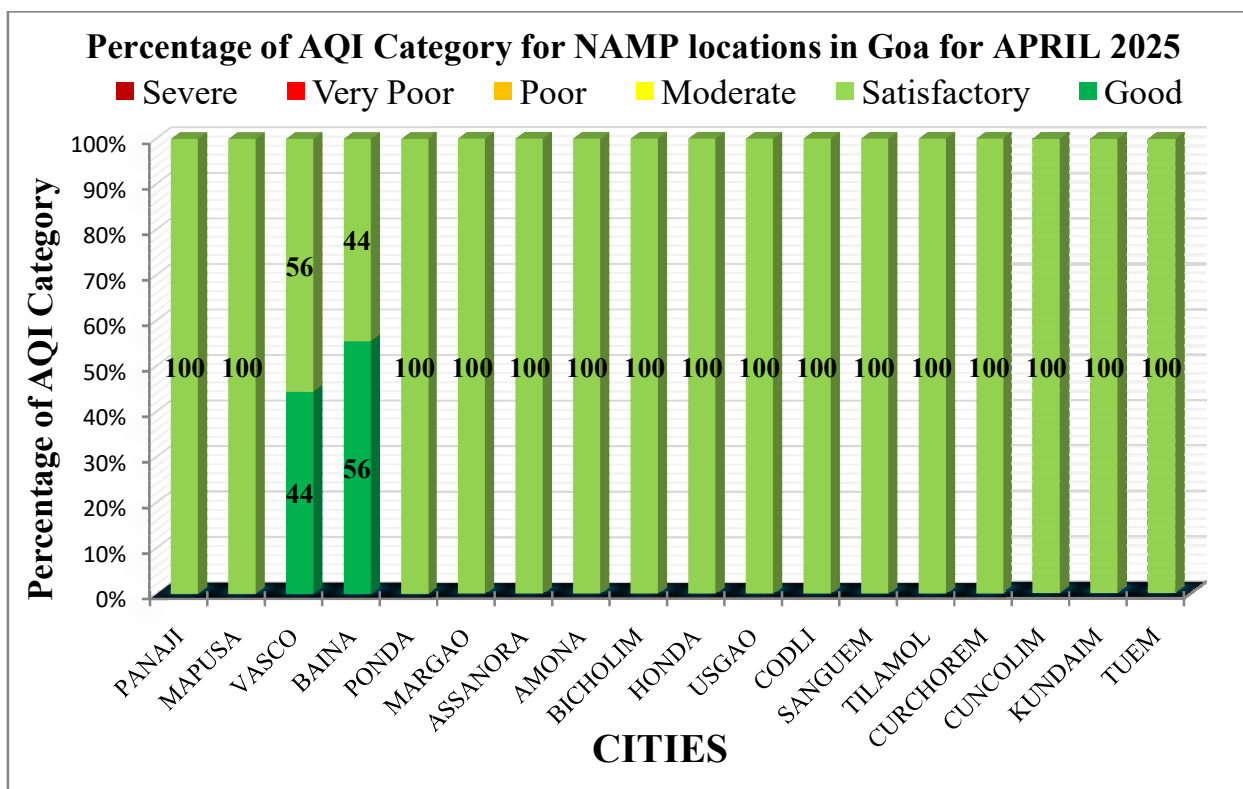
| Rooftop of Electricity panel room at GSUDA market |            |                                                                      |                   |                 |                 |       |                |       | City:-Curchorem |              |
|---------------------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|-----------------|--------------|
| Duration:- April-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                                                 | 02-04-2025 | 73                                                                   | 35                | 12              | 17              | 1.38  | 23             | 0.04  | 73              | Satisfactory |
| 2                                                 | 05-04-2025 | 65                                                                   | 32                | 11              | 16              | 0.86  | 22             | 0.05  | 65              | Satisfactory |
| 3                                                 | 09-04-2025 | 77                                                                   | 37                | 12              | 17              | 1.19  | 22             | 0.03  | 77              | Satisfactory |
| 4                                                 | 12-04-2025 | 61                                                                   | 29                | 10              | 16              | 1.24  | 20             | 0.06  | 62              | Satisfactory |
| 5                                                 | 16-04-2025 | 78                                                                   | 37                | 11              | 16              | 1.25  | 23             | 0.05  | 78              | Satisfactory |
| 6                                                 | 19-04-2025 | 83                                                                   | 39                | 12              | 17              | 1.04  | 24             | 0.03  | 83              | Satisfactory |
| 7                                                 | 23-04-2025 | 76                                                                   | 34                | 13              | 16              | 1.31  | 21             | 0.06  | 76              | Satisfactory |
| 8                                                 | 26-04-2025 | 66                                                                   | 33                | 11              | 16              | 0.95  | 20             | 0.04  | 66              | Satisfactory |
| 9                                                 | 30-04-2025 | 73                                                                   | 36                | 12              | 17              | 1.08  | 23             | 0.07  | 73              | Satisfactory |



| Station: Rooftop of Power Station, Cuncolim Ind Estate |            |                                                                                                 |                   |                 |                 |       |                |       |       | City: Cuncolim |              |
|--------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|-------|----------------|--------------|
| Duration:- April-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 | 24-Hr |                |              |
|                                                        | Parameters | Pollutants concentration in µg/m3<br>(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                                                      | 02-04-2025 | 74                                                                                              | 32                | 11              | 16              | 1.13  | 23             | 0.55  | 0.12  | 74             | Satisfactory |
| 2                                                      | 05-04-2025 | 81                                                                                              | 37                | 14              | 18              | 0.97  | 20             | 0.48  | 0.15  | 81             | Satisfactory |
| 3                                                      | 09-04-2025 | 68                                                                                              | 31                | 11              | 16              | 1.05  | 23             | 0.29  | 0.11  | 68             | Satisfactory |
| 4                                                      | 12-04-2025 | 63                                                                                              | 35                | 13              | 17              | 1.19  | 21             | 0.32  | 0.13  | 63             | Satisfactory |
| 5                                                      | 16-04-2025 | 75                                                                                              | 38                | 13              | 18              | 1.27  | 24             | 0.44  | 0.10  | 75             | Satisfactory |
| 6                                                      | 19-04-2025 | 66                                                                                              | 32                | 12              | 18              | 1.34  | 24             | 0.37  | 0.14  | 67             | Satisfactory |
| 7                                                      | 23-04-2025 | 85                                                                                              | 40                | 11              | 17              | 1.08  | 21             | 0.41  | 0.11  | 85             | Satisfactory |
| 8                                                      | 26-04-2025 | 77                                                                                              | 36                | 12              | 17              | 0.86  | 24             | 0.28  | 0.13  | 77             | Satisfactory |
| 9                                                      | 30-04-2025 | 69                                                                                              | 33                | 12              | 16              | 1.16  | 22             | 0.21  | 0.09  | 69             | Satisfactory |

| Station: Near IDC Office |            |                                                                         |                   |                 |                 |      | City: Kundaim  |       |     |              |
|--------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|-----|--------------|
| Duration:- April - 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                        | 03-04-2025 | 85                                                                      | 42                | 13              | 17              | 1.18 | 21             | 0.22  | 85  | Satisfactory |
| 2                        | 07-04-2025 | 78                                                                      | 37                | 13              | 18              | 1.02 | 23             | 0.31  | 78  | Satisfactory |
| 3                        | 10-04-2025 | 73                                                                      | 33                | 11              | 17              | 0.95 | 21             | 0.24  | 73  | Satisfactory |
| 4                        | 14-04-2025 | 82                                                                      | 40                | 13              | 18              | 1.21 | 23             | 0.29  | 82  | Satisfactory |
| 5                        | 17-04-2025 | 85                                                                      | 40                | 10              | 16              | 0.86 | 21             | 0.29  | 85  | Satisfactory |
| 6                        | 21-04-2025 | 92                                                                      | 44                | 12              | 16              | 1.15 | 24             | 0.24  | 92  | Satisfactory |
| 7                        | 24-04-2025 | 76                                                                      | 38                | 10              | 15              | 1.27 | 22             | 0.26  | 76  | Satisfactory |
| 8                        | 28-04-2025 | 88                                                                      | 42                | 12              | 18              | 1.34 | 22             | 0.33  | 88  | Satisfactory |

| Station: Near ESIC Hospital , Tuem Industrial Estate |            |                                                                         |                   |                 |                 | City: Tuem |                |       |     |              |
|------------------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------------|----------------|-------|-----|--------------|
| Duration: April - 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                                                    | 01-04-2025 | 70                                                                      | 35                | 10              | 15              | 1.26       | 21             | 0.050 | 70  | Satisfactory |
| 2                                                    | 04-04-2025 | 76                                                                      | 39                | 11              | 17              | 1.10       | 24             | 0.073 | 76  | Satisfactory |
| 3                                                    | 08-04-2025 | 65                                                                      | 32                | 9               | 15              | 0.84       | 21             | 0.063 | 65  | Satisfactory |
| 4                                                    | 11-04-2025 | 74                                                                      | 36                | 11              | 17              | 1.17       | 22             | 0.047 | 74  | Satisfactory |
| 5                                                    | 15-04-2025 | 77                                                                      | 33                | 9               | 14              | 1.31       | 19             | 0.033 | 77  | Satisfactory |
| 6                                                    | 18-04-2025 | 83                                                                      | 38                | 12              | 17              | 1.04       | 23             | 0.047 | 83  | Satisfactory |
| 7                                                    | 22-04-2025 | 72                                                                      | 34                | 11              | 15              | 1.29       | 21             | 0.070 | 72  | Satisfactory |
| 8                                                    | 25-04-2025 | 64                                                                      | 32                | 11              | 16              | 0.93       | 19             | 0.053 | 64  | Satisfactory |
| 9                                                    | 29-04-2025 | 70                                                                      | 33                | 10              | 15              | 1.15       | 20             | 0.033 | 70  | Satisfactory |



### **Results and Interpretation:**

It is seen that during the month of April 2025, out of 18 locations AQI is -

Good to Satisfactory at 2 locations namely – Vasco and Baina

Dominantly Satisfactory at 16 locations namely – Panaji, Mapusa, Ponda, Margao, Assanora, Amona, Bicholim, Honda, Usgao, Codli, Sanguem, Tilamol, Curchorem, Cuncolim, Kundaim and Tuem

*(Dominant refers to 75% and above)*