

# MONTHLY AAQM DATA ALONG WITH AQI FOR 18 NAMP STATION

**MAY 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:- - May - 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                              | 02-05-2025 | 71                                                                      | 34                | 10              | 14              | 1.03 | 21             | 0.05  | 71           | Satisfactory |
| 2                              | 06-05-2025 | 79                                                                      | 37                | 9               | 15              | 1.12 | 19             | 0.07  | 79           | Satisfactory |
| 3                              | 09-05-2025 | 66                                                                      | 33                | 10              | 14              | 0.97 | 20             | 0.04  | 66           | Satisfactory |
| 4                              | 13-05-2025 | 62                                                                      | 30                | 9               | 13              | 1.24 | 23             | 0.06  | 62           | Satisfactory |
| 5                              | 16-05-2025 | 75                                                                      | 34                | 10              | 15              | 1.08 | 20             | 0.05  | 75           | Satisfactory |
| 6                              | 20-05-2025 | 51                                                                      | 23                | 8               | 13              | 0.75 | 17             | 0.02  | 51           | Satisfactory |
| 7                              | 23-05-2025 | 43                                                                      | 17                | 7               | 11              | 0.46 | 15             | 0.01  | 43           | Good         |
| 8                              | 27-05-2025 | 37                                                                      | 15                | 7               | 10              | 0.32 | 11             | 0.03  | 37           | Good         |
| 9                              | 30-05-2025 | 50                                                                      | 22                | 8               | 11              | 0.41 | 13             | 0.05  | 50           | Good         |

| Station: Within the premises of Municipality building |            |                                                                         |                   |                 |                 |      |                |       | City :Mapusa |              |
|-------------------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|--------------|--------------|
| Duration:-May - 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                                                     | 02-05-2025 | 76                                                                      | 35                | 12              | 16              | 1.24 | 21             | 0.06  | 76           | Satisfactory |
| 2                                                     | 06-05-2025 | 69                                                                      | 33                | 11              | 16              | 1.17 | 23             | 0.04  | 69           | Satisfactory |
| 3                                                     | 09-05-2025 | 63                                                                      | 31                | 9               | 15              | 1.05 | 20             | 0.03  | 63           | Satisfactory |
| 4                                                     | 13-05-2025 | 73                                                                      | 34                | 11              | 14              | 0.93 | 22             | 0.05  | 73           | Satisfactory |
| 5                                                     | 16-05-2025 | 78                                                                      | 38                | 11              | 17              | 1.14 | 22             | 0.03  | 78           | Satisfactory |
| 6                                                     | 20-05-2025 | 56                                                                      | 22                | 9               | 12              | 0.78 | 17             | 0.02  | 56           | Satisfactory |
| 7                                                     | 23-05-2025 | 45                                                                      | 18                | 7               | 12              | 0.65 | 16             | 0.01  | 45           | Good         |
| 8                                                     | 27-05-2025 | 33                                                                      | 15                | 6               | 11              | 0.54 | 13             | 0.03  | 33           | Good         |
| 9                                                     | 30-05-2025 | 49                                                                      | 21                | 9               | 12              | 0.42 | 12             | 0.04  | 49           | Good         |

| Station: Fuse Call Office |            |                                   |                   |                 |                 |                 | City: Vasco |              |
|---------------------------|------------|-----------------------------------|-------------------|-----------------|-----------------|-----------------|-------------|--------------|
| Duration:- May-2025       |            |                                   |                   |                 |                 |                 |             |              |
| Sr.No                     |            | Time Weighted Average (TWA)       |                   |                 |                 |                 | AQI         | AIR<br>QLTY  |
|                           |            | 24-<br>Hr                         | 24-<br>Hr         | 24-<br>Hr       | 24-<br>Hr       | 24-<br>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                         | 02-05-2025 | 71                                | 59                | 2               | 3               | 10              | 98          | Satisfactory |
| 2                         | 07-05-2025 | 65                                | 28                | 2               | 10              | 21              | 65          | Satisfactory |
| 3                         | 09-05-2025 | 43                                | 13                | 5               | 3               | 10              | 43          | Good         |
| 4                         | 14-05-2025 | 36                                | 11                | 2               | 3               | 10              | 36          | Good         |
| 5                         | 16-05-2025 | 36                                | 21                | 4               | 3               | 10              | 36          | Good         |
| 6                         | 23-05-2025 | 50                                | 10                | 4               | 16              | 49              | 50          | Good         |
| 7                         | 30-05-2025 | 111                               | 35                | 2               | 11              | 50              | 107         | Moderate     |

| Station: MPT Quarters |            |                                   |                   |                 |                 |                 | City: Baina |              |
|-----------------------|------------|-----------------------------------|-------------------|-----------------|-----------------|-----------------|-------------|--------------|
| Duration:- May-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                     | 02-05-2025 | 54                                | 18                | 2               | 3               | 35              | 54          | Satisfactory |
| 2                     | 07-05-2025 | 42                                | 19                | 2               | 3               | 10              | 42          | Good         |
| 3                     | 09-05-2025 | 68                                | 21                | 4               | 3               | 10              | 68          | Satisfactory |
| 4                     | 14-05-2025 | 37                                | 6                 | 2               | 8               | 22              | 37          | Good         |
| 5                     | 16-05-2025 | 41                                | 13                | 2               | 8               | 24              | 41          | Good         |
| 6                     | 23-05-2025 | 84                                | 16                | 2               | 3               | 46              | 84          | Satisfactory |
| 7                     | 30-05-2025 | 93                                | 29                | 2               | 3               | 84              | 93          | Satisfactory |

| Station: Roof top of Municipal market |            |                                                                         |                   |                 |                 |      |                |       | City: Ponda |              |
|---------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|-------------|--------------|
| Duration:-May - 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                                     | 02-05-2025 | 78                                                                      | 37                | 10              | 14              | 1.12 | 23             | 0.05  | 78          | Satisfactory |
| 2                                     | 05-05-2025 | 86                                                                      | 40                | 12              | 17              | 0.94 | 21             | 0.07  | 86          | Satisfactory |
| 3                                     | 08-05-2025 | 64                                                                      | 31                | 10              | 14              | 1.23 | 21             | 0.04  | 64          | Satisfactory |
| 4                                     | 12-05-2025 | 80                                                                      | 38                | 12              | 15              | 0.87 | 22             | 0.08  | 80          | Satisfactory |
| 5                                     | 15-05-2025 | 74                                                                      | 35                | 11              | 15              | 1.06 | 20             | 0.09  | 74          | Satisfactory |
| 6                                     | 19-05-2025 | 60                                                                      | 26                | 8               | 13              | 0.79 | 19             | 0.03  | 60          | Satisfactory |
| 7                                     | 22-05-2025 | 46                                                                      | 23                | 8               | 12              | 0.65 | 18             | 0.02  | 46          | Good         |
| 8                                     | 26-05-2025 | 32                                                                      | 14                | 7               | 11              | 0.52 | 15             | 0.01  | 32          | Good         |
| 9                                     | 29-05-2025 | 38                                                                      | 17                | 6               | 11              | 0.38 | 13             | 0.03  | 38          | Good         |

| Station: Rooftop of Ravindra Bhavan Building |            |                                                                      |                   |                 |                 |       |                |       | City:-Margao |              |
|----------------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|--------------|--------------|
| Duration:- May 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                                            | 03-05-2025 | 69                                                                   | 32                | 9               | 14              | 0.94  | 21             | 0.05  | 69           | Satisfactory |
| 2                                            | 07-05-2025 | 78                                                                   | 38                | 12              | 16              | 0.71  | 21             | 0.03  | 78           | Satisfactory |
| 3                                            | 10-05-2025 | 71                                                                   | 33                | 9               | 16              | 1.03  | 18             | 0.06  | 71           | Satisfactory |
| 4                                            | 14-05-2025 | 64                                                                   | 31                | 10              | 15              | 0.89  | 21             | 0.08  | 64           | Satisfactory |
| 5                                            | 17-05-2025 | 56                                                                   | 27                | 9               | 13              | 0.75  | 19             | 0.07  | 56           | Satisfactory |
| 6                                            | 21-05-2025 | 50                                                                   | 23                | 9               | 12              | 0.62  | 16             | 0.02  | 50           | Good         |
| 7                                            | 24-05-2025 | 43                                                                   | 17                | 7               | 11              | 0.44  | 15             | 0.01  | 43           | Good         |
| 8                                            | 28-05-2025 | 36                                                                   | 15                | 7               | 11              | 0.31  | 10             | 0.03  | 36           | Good         |
| 9                                            | 31-05-2025 | 32                                                                   | 12                | 5               | 9               | 0.39  | 14             | 0.02  | 32           | Good         |

| Station: Residence of Mr. Rama Naik, Assanora Junction |            |                                                                         |                   |                 |                 |      |                | City: Assanora |     |              |
|--------------------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|----------------|-----|--------------|
| Duration: May - 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                                                      | 02-05-2025 | 65                                                                      | 32                | 8               | 14              | 0.89 | 21             | 0.04           | 65  | Satisfactory |
| 2                                                      | 06-05-2025 | 73                                                                      | 34                | 9               | 15              | 1.07 | 19             | 0.03           | 73  | Satisfactory |
| 3                                                      | 09-05-2025 | 63                                                                      | 29                | 10              | 14              | 1.13 | 20             | 0.02           | 63  | Satisfactory |
| 4                                                      | 13-05-2025 | 70                                                                      | 33                | 9               | 12              | 1.24 | 23             | 0.04           | 70  | Satisfactory |
| 5                                                      | 16-05-2025 | 75                                                                      | 36                | 11              | 15              | 0.96 | 21             | 0.06           | 75  | Satisfactory |
| 6                                                      | 20-05-2025 | 49                                                                      | 23                | 7               | 11              | 0.55 | 16             | 0.01           | 49  | Good         |
| 7                                                      | 23-05-2025 | 43                                                                      | 17                | 6               | 11              | 0.72 | 16             | 0.02           | 43  | Good         |
| 8                                                      | 27-05-2025 | 30                                                                      | 14                | 5               | 10              | 0.43 | 13             | 0.01           | 30  | Good         |
| 9                                                      | 30-05-2025 | 39                                                                      | 15                | 7               | 11              | 0.38 | 11             | 0.03           | 39  | Good         |

| Station: Residence of Mr. Sagun Ramkrishna Fadte |            |                                                                      |                   |                 |                 |      |                |       | City: Amona |              |
|--------------------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|-------------|--------------|
| Duration:- -May - 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                                                | 02-05-2025 | 72                                                                   | 35                | 10              | 16              | 0.81 | 19             | 0.08  | 72          | Satisfactory |
| 2                                                | 05-05-2025 | 76                                                                   | 37                | 11              | 16              | 0.95 | 21             | 0.05  | 76          | Satisfactory |
| 3                                                | 08-05-2025 | 66                                                                   | 33                | 9               | 15              | 0.79 | 21             | 0.07  | 66          | Satisfactory |
| 4                                                | 12-05-2025 | 61                                                                   | 28                | 9               | 16              | 1.08 | 22             | 0.06  | 61          | Satisfactory |
| 5                                                | 15-05-2025 | 78                                                                   | 37                | 10              | 17              | 0.86 | 21             | 0.08  | 78          | Satisfactory |
| 6                                                | 19-05-2025 | 59                                                                   | 27                | 8               | 12              | 0.74 | 19             | 0.04  | 59          | Satisfactory |
| 7                                                | 22-05-2025 | 47                                                                   | 21                | 8               | 11              | 0.52 | 15             | 0.02  | 47          | Good         |
| 8                                                | 26-05-2025 | 35                                                                   | 16                | 7               | 11              | 0.38 | 13             | 0.01  | 35          | Good         |
| 9                                                | 29-05-2025 | 42                                                                   | 18                | 6               | 11              | 0.27 | 11             | 0.03  | 42          | Good         |

| Station: Municipality Building |            |                                                                         |                   |                 |                 |      |                |       | City: Bicholim |              |
|--------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|----------------|--------------|
| Duration: May - 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                              | 02-05-2025 | 86                                                                      | 40                | 12              | 16              | 1.26 | 23             | 0.17  | 86             | Satisfactory |
| 2                              | 06-05-2025 | 93                                                                      | 43                | 13              | 18              | 1.10 | 24             | 0.20  | 93             | Satisfactory |
| 3                              | 09-05-2025 | 95                                                                      | 47                | 11              | 16              | 0.94 | 23             | 0.15  | 95             | Satisfactory |
| 4                              | 13-05-2025 | 81                                                                      | 38                | 12              | 16              | 1.33 | 22             | 0.13  | 81             | Satisfactory |
| 5                              | 16-05-2025 | 88                                                                      | 41                | 12              | 17              | 1.05 | 21             | 0.16  | 88             | Satisfactory |
| 6                              | 20-05-2025 | 62                                                                      | 28                | 9               | 14              | 0.79 | 18             | 0.09  | 62             | Satisfactory |
| 7                              | 23-05-2025 | 58                                                                      | 24                | 8               | 11              | 0.62 | 17             | 0.05  | 58             | Satisfactory |
| 8                              | 27-05-2025 | 51                                                                      | 23                | 9               | 13              | 0.58 | 15             | 0.08  | 51             | Satisfactory |
| 9                              | 30-05-2025 | 60                                                                      | 26                | 11              | 15              | 0.74 | 13             | 0.12  | 60             | Satisfactory |

| Station: Near Ajoba temple, Honda junction |            |                                                                         |                   |                 |                 |      |                |       | City: Honda |              |
|--------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|-------------|--------------|
| Duration:- May - 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                                          | 02-05-2025 | 65                                                                      | 31                | 8               | 14              | 0.96 | 20             | 0.05  | 65          | Satisfactory |
| 2                                          | 05-05-2025 | 76                                                                      | 37                | 10              | 16              | 0.87 | 22             | 0.08  | 76          | Satisfactory |
| 3                                          | 08-05-2025 | 68                                                                      | 34                | 8               | 13              | 1.05 | 21             | 0.04  | 68          | Satisfactory |
| 4                                          | 12-05-2025 | 77                                                                      | 36                | 9               | 15              | 0.72 | 19             | 0.07  | 77          | Satisfactory |
| 5                                          | 15-05-2025 | 71                                                                      | 32                | 9               | 14              | 1.07 | 22             | 0.08  | 71          | Satisfactory |
| 6                                          | 19-05-2025 | 58                                                                      | 27                | 8               | 11              | 0.63 | 18             | 0.04  | 58          | Satisfactory |
| 7                                          | 22-05-2025 | 48                                                                      | 22                | 7               | 11              | 0.49 | 17             | 0.02  | 48          | Good         |
| 8                                          | 26-05-2025 | 40                                                                      | 17                | 7               | 11              | 0.37 | 14             | 0.01  | 40          | Good         |
| 9                                          | 29-05-2025 | 32                                                                      | 14                | 7               | 12              | 0.28 | 11             | 0.03  | 32          | Good         |

| Station:- Usgao Junction |            |                                                                         |                   |                 |                 |       |                |       | City:-Usgao |              |
|--------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|-------------|--------------|
| Duration:- May-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                        | 02-05-2025 | 66                                                                      | 32                | 10              | 15              | 1.07  | 22             | 0.06  | 66          | Satisfactory |
| 2                        | 05-05-2025 | 74                                                                      | 36                | 11              | 15              | 0.86  | 20             | 0.03  | 74          | Satisfactory |
| 3                        | 08-05-2025 | 69                                                                      | 33                | 12              | 18              | 1.08  | 22             | 0.07  | 69          | Satisfactory |
| 4                        | 12-05-2025 | 77                                                                      | 38                | 12              | 15              | 0.93  | 19             | 0.05  | 77          | Satisfactory |
| 5                        | 15-05-2025 | 83                                                                      | 40                | 13              | 17              | 1.19  | 23             | 0.08  | 83          | Satisfactory |
| 6                        | 19-05-2025 | 62                                                                      | 28                | 9               | 13              | 0.81  | 18             | 0.04  | 62          | Satisfactory |
| 7                        | 22-05-2025 | 45                                                                      | 20                | 8               | 12              | 0.72  | 16             | 0.02  | 45          | Good         |
| 8                        | 26-05-2025 | 39                                                                      | 16                | 6               | 12              | 0.53  | 14             | 0.01  | 39          | Good         |
| 9                        | 29-05-2025 | 31                                                                      | 15                | 6               | 11              | 0.46  | 12             | 0.03  | 31          | Good         |

| Premises of Somnath English High School |            |                                                                      |                   |                 |                 |       |                |       | City:-Codli |              |
|-----------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|-------------|--------------|
| Duration:- May -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                                       | 03-05-2025 | 67                                                                   | 33                | 8               | 14              | 0.95  | 21             | 0.06  | 67          | Satisfactory |
| 2                                       | 07-05-2025 | 72                                                                   | 36                | 11              | 14              | 1.12  | 22             | 0.03  | 72          | Satisfactory |
| 3                                       | 10-05-2025 | 65                                                                   | 30                | 10              | 14              | 0.87  | 22             | 0.08  | 65          | Satisfactory |
| 4                                       | 14-05-2025 | 69                                                                   | 33                | 9               | 13              | 1.06  | 19             | 0.04  | 69          | Satisfactory |
| 5                                       | 17-05-2025 | 58                                                                   | 28                | 8               | 12              | 0.74  | 17             | 0.02  | 58          | Satisfactory |
| 6                                       | 21-05-2025 | 52                                                                   | 21                | 7               | 11              | 0.52  | 16             | 0.04  | 52          | Satisfactory |
| 7                                       | 24-05-2025 | 38                                                                   | 15                | 7               | 11              | 0.45  | 13             | 0.02  | 38          | Good         |
| 8                                       | 28-05-2025 | 33                                                                   | 14                | 6               | 10              | 0.27  | 11             | 0.03  | 33          | Good         |
| 9                                       | 31-05-2025 | 41                                                                   | 17                | 6               | 12              | 0.38  | 15             | 0.02  | 41          | Good         |

| Station: Rooftop of Sanguem Municipality Building |            |                                                                      |                   |                 |                 |       |                |       | City: Sanguem |              |
|---------------------------------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|---------------|--------------|
| Duration:- May -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                                                 | 03-05-2025 | 66                                                                   | 32                | 10              | 14              | 0.82  | 19             | 0.07  | 66            | Satisfactory |
| 2                                                 | 07-05-2025 | 75                                                                   | 34                | 8               | 14              | 0.94  | 17             | 0.04  | 75            | Satisfactory |
| 3                                                 | 10-05-2025 | 61                                                                   | 30                | 11              | 15              | 0.75  | 21             | 0.06  | 61            | Satisfactory |
| 4                                                 | 14-05-2025 | 69                                                                   | 32                | 10              | 13              | 0.89  | 21             | 0.03  | 69            | Satisfactory |
| 5                                                 | 17-05-2025 | 55                                                                   | 27                | 8               | 12              | 0.68  | 17             | 0.02  | 55            | Satisfactory |
| 6                                                 | 21-05-2025 | 42                                                                   | 17                | 8               | 12              | 0.51  | 15             | 0.02  | 42            | Good         |
| 7                                                 | 24-05-2025 | 36                                                                   | 15                | 6               | 11              | 0.38  | 14             | 0.01  | 36            | Good         |
| 8                                                 | 28-05-2025 | 29                                                                   | 14                | 5               | 10              | 0.25  | 11             | 0.03  | 29            | Good         |
| 9                                                 | 31-05-2025 | 45                                                                   | 20                | 7               | 12              | 0.46  | 13             | 0.02  | 45            | Good         |

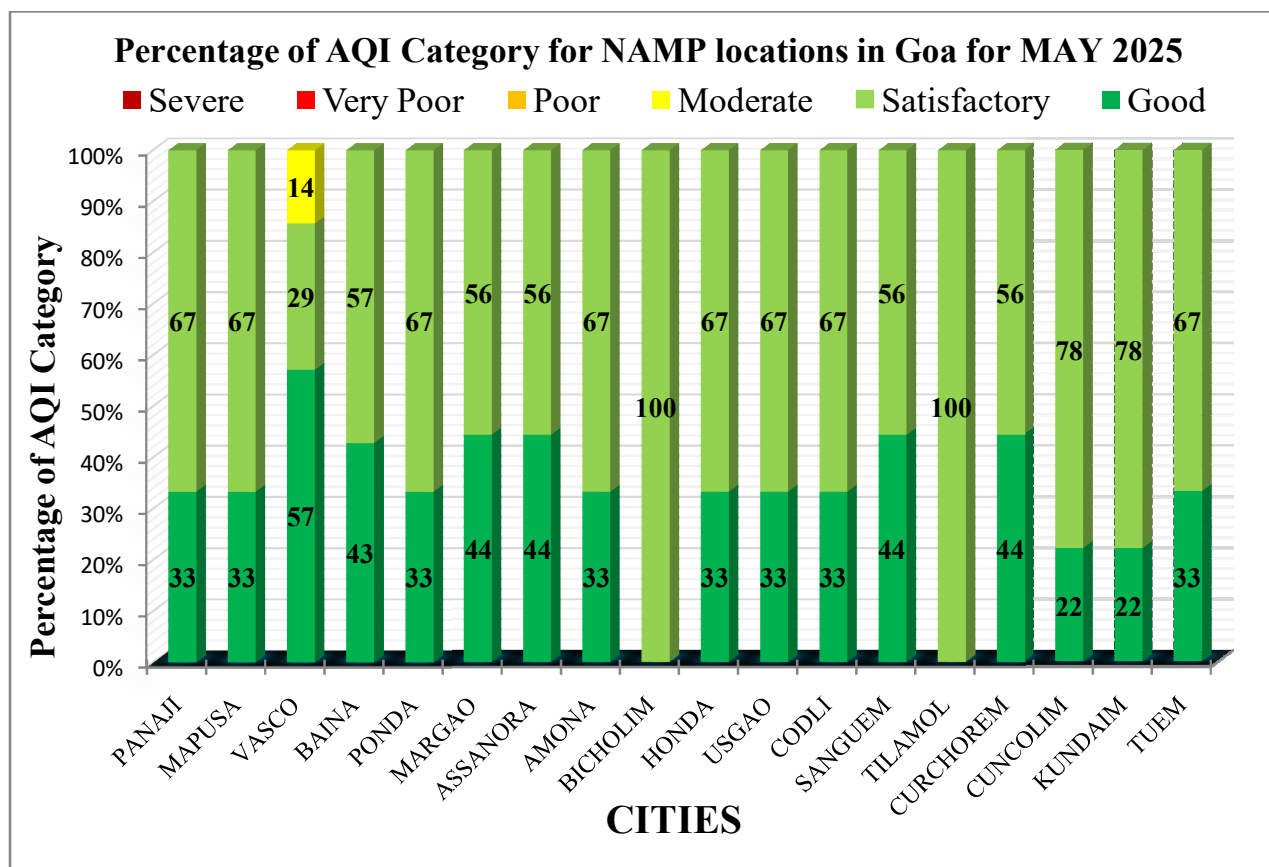
| Station: Tilamol Junction |            |                                                                      |                   |                 |                 |       |                | City: Tilamol |     |              |
|---------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|---------------|-----|--------------|
| Duration:- May-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                         | 03-05-2025 | 84                                                                   | 41                | 13              | 18              | 1.34  | 23             | 0.06          | 84  | Satisfactory |
| 2                         | 07-05-2025 | 90                                                                   | 43                | 12              | 17              | 1.12  | 21             | 0.08          | 90  | Satisfactory |
| 3                         | 10-05-2025 | 93                                                                   | 46                | 13              | 18              | 1.25  | 22             | 0.05          | 93  | Satisfactory |
| 4                         | 14-05-2025 | 86                                                                   | 40                | 12              | 16              | 1.17  | 21             | 0.07          | 86  | Satisfactory |
| 5                         | 17-05-2025 | 75                                                                   | 34                | 11              | 15              | 1.03  | 19             | 0.09          | 75  | Satisfactory |
| 6                         | 21-05-2025 | 60                                                                   | 29                | 9               | 14              | 0.81  | 16             | 0.04          | 60  | Satisfactory |
| 7                         | 24-05-2025 | 55                                                                   | 24                | 8               | 13              | 0.69  | 15             | 0.01          | 55  | Satisfactory |
| 8                         | 28-05-2025 | 68                                                                   | 31                | 11              | 15              | 0.76  | 11             | 0.03          | 68  | Satisfactory |
| 9                         | 31-05-2025 | 77                                                                   | 36                | 10              | 15              | 0.54  | 13             | 0.05          | 77  | Satisfactory |

| Rooftop of Electricity panel room at GSUDA market |            |                                                                         |                   |                 |                 |       |                |       | City:-Curchorem |              |
|---------------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|-----------------|--------------|
| Duration:- May-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                                                 | 03-05-2025 | 78                                                                      | 35                | 12              | 17              | 1.31  | 22             | 0.06  | 78              | Satisfactory |
| 2                                                 | 07-05-2025 | 72                                                                      | 32                | 10              | 15              | 0.92  | 21             | 0.04  | 72              | Satisfactory |
| 3                                                 | 10-05-2025 | 80                                                                      | 37                | 12              | 16              | 1.15  | 22             | 0.07  | 80              | Satisfactory |
| 4                                                 | 14-05-2025 | 64                                                                      | 32                | 11              | 15              | 1.29  | 23             | 0.09  | 65              | Satisfactory |
| 5                                                 | 17-05-2025 | 58                                                                      | 26                | 9               | 15              | 1.07  | 22             | 0.06  | 58              | Satisfactory |
| 6                                                 | 21-05-2025 | 48                                                                      | 21                | 8               | 13              | 0.63  | 17             | 0.02  | 48              | Good         |
| 7                                                 | 24-05-2025 | 36                                                                      | 15                | 7               | 11              | 0.48  | 14             | 0.01  | 36              | Good         |
| 8                                                 | 28-05-2025 | 28                                                                      | 12                | 5               | 11              | 0.51  | 11             | 0.03  | 28              | Good         |
| 9                                                 | 31-05-2025 | 40                                                                      | 17                | 8               | 12              | 0.76  | 13             | 0.05  | 40              | Good         |

| Station: Rooftop of Power Station, Cuncolim Ind Estate |            |                                                                                                 |                   |                 |                 |       |                |       |       | City: Cuncolim |              |
|--------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------|-------------------|-----------------|-----------------|-------|----------------|-------|-------|----------------|--------------|
| Duration:- May-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<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                                                      | 03-05-2025 | 75                                                                                              | 35                | 11              | 17              | 1.01  | 21             | 0.28  | 0.13  | 75             | Satisfactory |
| 2                                                      | 07-05-2025 | 84                                                                                              | 37                | 11              | 15              | 0.84  | 20             | 0.33  | 0.11  | 84             | Satisfactory |
| 3                                                      | 10-05-2025 | 66                                                                                              | 33                | 10              | 16              | 0.97  | 21             | 0.40  | 0.16  | 66             | Satisfactory |
| 4                                                      | 14-05-2025 | 79                                                                                              | 38                | 11              | 17              | 1.15  | 23             | 0.27  | 0.09  | 79             | Satisfactory |
| 5                                                      | 17-05-2025 | 71                                                                                              | 34                | 10              | 15              | 0.78  | 19             | 0.35  | 0.14  | 71             | Satisfactory |
| 6                                                      | 21-05-2025 | 58                                                                                              | 27                | 8               | 13              | 0.61  | 15             | 0.26  | 0.10  | 58             | Satisfactory |
| 7                                                      | 24-05-2025 | 42                                                                                              | 19                | 7               | 11              | 0.43  | 14             | 0.12  | 0.06  | 42             | Good         |
| 8                                                      | 28-05-2025 | 50                                                                                              | 16                | 9               | 13              | 0.59  | 12             | 0.24  | 0.09  | 50             | Good         |
| 9                                                      | 31-05-2025 | 60                                                                                              | 26                | 7               | 14              | 0.72  | 13             | 0.16  | 0.13  | 60             | Satisfactory |

| Station: Near IDC Office |            |                                                                      |                   |                 |                 |      |                |       | City: Kundaim |              |
|--------------------------|------------|----------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|---------------|--------------|
| Duration:- May - 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                        | 02-05-2025 | 76                                                                   | 35                | 10              | 17              | 0.97 | 23             | 0.17  | 76            | Satisfactory |
| 2                        | 05-05-2025 | 83                                                                   | 40                | 13              | 18              | 1.25 | 21             | 0.15  | 83            | Satisfactory |
| 3                        | 08-05-2025 | 77                                                                   | 38                | 11              | 16              | 1.08 | 22             | 0.26  | 77            | Satisfactory |
| 4                        | 12-05-2025 | 70                                                                   | 34                | 11              | 15              | 1.17 | 24             | 0.20  | 70            | Satisfactory |
| 5                        | 15-05-2025 | 81                                                                   | 38                | 13              | 17              | 0.93 | 21             | 0.18  | 81            | Satisfactory |
| 6                        | 19-05-2025 | 65                                                                   | 31                | 9               | 14              | 0.75 | 19             | 0.20  | 65            | Satisfactory |
| 7                        | 22-05-2025 | 52                                                                   | 24                | 8               | 12              | 0.48 | 16             | 0.09  | 52            | Satisfactory |
| 8                        | 26-05-2025 | 45                                                                   | 19                | 8               | 12              | 0.69 | 14             | 0.06  | 45            | Good         |
| 9                        | 29-05-2025 | 38                                                                   | 16                | 7               | 11              | 0.41 | 12             | 0.05  | 38            | Good         |

| Station: Near ESIC Hospital , Tuem Industrial Estate |            |                                                                         |                   |                 |                 |      |                |       | City: Tuem |              |
|------------------------------------------------------|------------|-------------------------------------------------------------------------|-------------------|-----------------|-----------------|------|----------------|-------|------------|--------------|
| Duration: May - 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                                                    | 02-05-2025 | 75                                                                      | 33                | 10              | 17              | 0.96 | 23             | 0.060 | 75         | Satisfactory |
| 2                                                    | 06-05-2025 | 83                                                                      | 37                | 9               | 14              | 1.18 | 20             | 0.077 | 83         | Satisfactory |
| 3                                                    | 09-05-2025 | 77                                                                      | 36                | 11              | 16              | 0.75 | 23             | 0.043 | 77         | Satisfactory |
| 4                                                    | 13-05-2025 | 68                                                                      | 32                | 10              | 15              | 1.22 | 21             | 0.053 | 68         | Satisfactory |
| 5                                                    | 16-05-2025 | 72                                                                      | 35                | 9               | 14              | 0.87 | 22             | 0.077 | 72         | Satisfactory |
| 6                                                    | 20-05-2025 | 54                                                                      | 23                | 8               | 11              | 0.73 | 18             | 0.023 | 54         | Satisfactory |
| 7                                                    | 23-05-2025 | 44                                                                      | 19                | 8               | 12              | 0.59 | 16             | 0.013 | 44         | Good         |
| 8                                                    | 27-05-2025 | 36                                                                      | 15                | 7               | 11              | 0.42 | 15             | 0.027 | 36         | Good         |
| 9                                                    | 30-05-2025 | 42                                                                      | 18                | 7               | 11              | 0.37 | 13             | 0.043 | 42         | Good         |



### **Results and Interpretation:**

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

Good to Satisfactory at 13 locations namely: Panaji, Mapusa, Baina, Ponda, Margao, Assanora, Amona, Honda, Usgao, Codli, Sanguem, Curchorem, and Tuem

Satisfactory at 4 locations namely: Bicholim, Tilamol, Cuncolim and Kundaim

Good to Satisfactory to Moderate at 1 location namely – Vasco

*(Dominant refers to 75% and above)*