

# Calculation of AQI

|                              |  |
|------------------------------|--|
| <b>Date</b><br>December-2016 | <b>Station</b><br>KHB Indl Area, Yelahanka |
|                              | <b>City</b><br>Bangalore                   |
|                              | <b>State</b><br>Karnataka                  |

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index | check | Air Quality Index |
|-------------|-------------|--|-----------|-------|-------------------|
| PM10        | Monthly avg | 145.00   | 130       | 1     | <b>AQI = 130</b>  |
| PM2.5       | Monthly avg | 60.10  | 100       | 1     |                   |
| SO2         | Monthly avg | 2.00   | 3         | 1     |                   |
| NO2         | Monthly avg | 24.50  | 31        | 1     |                   |
| *CO (mg/m3) | Monthly avg | 0.00   | 0         | 0     |                   |
| O3          | Monthly avg | 0.00   | 0         | 0     |                   |
| NH3         | Monthly avg | 12.80  | 3         | 1     |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5  
 \* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|               |  |                |                           |
|---------------|--|----------------|---------------------------|
| <b>Date</b>   |  | <b>Station</b> | Amco Batteries Msore Road |
| December-2016 |  | <b>City</b>    | Bangalore                 |
|               |  | <b>State</b>   | Karnataka                 |

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index |            | Air Quality Index |
|-------------|-------------|--|-----------|------------|-------------------|
| PM10        | Monthly avg | 102.00   | 101       | check<br>1 | <b>AQI = 101</b>  |
| PM2.5       | Monthly avg | 49.00  | 82        | 1          |                   |
| SO2         | Monthly avg | 2.00   | 3         | 1          |                   |
| NO2         | Monthly avg | 35.10  | 44        | 1          |                   |
| *CO (mg/m3) | Monthly avg | 0.00   | 0         | 0          |                   |
| O3          | Monthly avg | 0.00   | 0         | 0          |                   |
| NH3         | Monthly avg | 24.40  | 6         | 1          |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|               |  |                |                          |
|---------------|--|----------------|--------------------------|
| <b>Date</b>   |  | <b>Station</b> | Banaswadi Police station |
| December-2016 |  | <b>City</b>    | Bangalore                |
|               |  | <b>State</b>   | Karnataka                |

| Pollutants                     |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index |            | Air Quality Index |
|--------------------------------|-------------|--|-----------|------------|-------------------|
| PM10                           | monthly avg | 87.00  | 87        | check<br>1 | <b>AQI = 87</b>   |
| PM2.5                          | monthly avg | 34.00  | 57        | 1          |                   |
| SO2                            | monthly avg | 2.00   | 3         | 1          |                   |
| NO2                            | monthly avg | 27.90  | 35        | 1          |                   |
| *CO ( $\text{mg}/\text{m}^3$ ) | monthly avg | 0.00   | 0         | 0          |                   |
| O3                             | monthly avg | 0.00   | 0         | 0          |                   |
| NH3                            | monthly avg | 11.40  | 3         | 1          |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

**Date**  
December-2016

**Station** City Railway Station  
**City** Bangalore  
**State** Karnataka

**Pollutants**

concentration in  
 $\mu\text{g}/\text{m}^3$   
(except for CO)

**Sub-Index**

**Air Quality Index**

| Pollutants  | concentration in $\mu\text{g}/\text{m}^3$ (except for CO) | Sub-Index | check |
|-------------|---|-----------|-------|
| PM10        | 127.00  | 118       | 1     |
| PM2.5       | 0.00  | 0         | 0     |
| SO2         | 6.70  | 8         | 1     |
| NO2         | 85.10   | 105       | 1     |
| *CO (mg/m3) | 1.10  | 55        | 1     |
| O3          | 0.00  | 0         | 0     |
| NH3         | 0.00  | 0         | 0     |

**AQI = 118**

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|               |  |                |                    |
|---------------|--|----------------|--------------------|
| <b>Date</b>   |  | <b>Station</b> | Central Silk Board |
| December-2016 |  | <b>City</b>    | Bangalore          |
|               |  | <b>State</b>   | Karnataka          |

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index | check | Air Quality Index |
|-------------|-------------|--|-----------|-------|-------------------|
| PM10        | Monthly avg | 112.00   | 108       | 1     | <b>AQI = 108</b>  |
| PM2.5       | Monthly avg | 54.20  | 90        | 1     |                   |
| SO2         | Monthly avg | 2.00   | 3         | 1     |                   |
| NO2         | Monthly avg | 40.50  | 51        | 1     |                   |
| *CO (mg/m3) | Monthly avg | 0.00   | 0         | 0     |                   |
| O3          | Monthly avg | 0.00   | 0         | 0     |                   |
| NH3         | Monthly avg | 32.50  | 8         | 1     |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|                              |   |                  |                          |
|------------------------------|---|------------------|--------------------------|
| <b>Date</b><br>December-2016 | <b>Station</b><br>City: Export promotional park ITPL<br>State: Bangalore<br>Karnataka |                  |                          |
| <b>Pollutants</b>            | <b>concentration in <math>\mu\text{g}/\text{m}^3</math> (except for CO)</b>           | <b>Sub-Index</b> | <b>Air Quality Index</b> |
| PM10                         | Monthly avg 137.00  | 137              | <b>AQI = 137</b>         |
| PM2.5                        | Monthly avg 49.70   | 83               |                          |
| SO2                          | Monthly avg 2.00  | 3                |                          |
| NO2                          | Monthly avg 26.40   | 33               |                          |
| *CO (mg/m3)                  | Monthly avg 0.00  | 0                |                          |
| O3                           | Monthly avg 0.00  | 0                |                          |
| NH3                          | Monthly avg 17.70   | 4                |                          |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|                              |   |
|------------------------------|---|
| <b>Date</b><br>December-2016 | <b>Station</b><br>Indira Gandhi CHC-NIMHANS |
|                              | <b>City</b><br>Delhi                        |
|                              | <b>State</b><br>Delhi                       |

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index |            | Air Quality Index |
|-------------|-------------|--|-----------|------------|-------------------|
| PM10        | Monthly Avg | 71.00  | 71        | check<br>1 | <b>AQI = 71</b>   |
| PM2.5       | Monthly Avg | 33.40  | 56        | 1          |                   |
| SO2         | Monthly Avg | 2.00   | 3         | 1          |                   |
| NO2         | Monthly Avg | 28.40  | 36        | 1          |                   |
| *CO (mg/m3) | Monthly Avg | 0.00   | 0         | 0          |                   |
| O3          | Monthly Avg | 0.00   | 0         | 0          |                   |
| NH3         | Monthly Avg | 17.90  | 4         | 1          |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

**Date**  
December-2016

**Station** Kajisonnenahalli  
**City** Bangalore  
**State** Karnataka

**Pollutants**

**concentration in  $\mu\text{g}/\text{m}^3$   
(except for CO)**

**Sub-Index**

**Air Quality Index**

| Pollutants  | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index | check |
|-------------|--|-----------|-------|
| PM10        | monthly avg 70.00  | 70        | 1     |
| PM2.5       | monthly avg 29.70  | 50        | 1     |
| SO2         | monthly avg 2.00   | 3         | 1     |
| NO2         | monthly avg 21.10  | 26        | 1     |
| *CO (mg/m3) | monthly avg 0.00   | 0         | 0     |
| O3          | monthly avg 0.00   | 0         | 0     |
| NH3         | monthly avg 14.70  | 4         | 1     |

**AQI =**

**70**

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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



# Calculation of AQI

|                              |                                 |   |
|------------------------------|---------------------------------|---|
| <b>Date</b><br>December-2016 | <b>Station</b><br>City<br>State | Regional Office - Kolar<br>Kolar<br>Karnataka |
|------------------------------|---------------------------------|---|

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index |            | Air Quality Index |
|-------------|-------------|--|-----------|------------|-------------------|
| PM10        | monthly avg | 77.00  | 77        | check<br>1 | <b>AQI = 77</b>   |
| PM2.5       | monthly avg | 40.00  | 67        | 1          |                   |
| SO2         | monthly avg | 2.00   | 3         | 1          |                   |
| NO2         | monthly avg | 27.20  | 34        | 1          |                   |
| *CO (mg/m3) | monthly avg | 0.00   | 0         | 0          |                   |
| O3          | monthly avg | 0.00   | 0         | 0          |                   |
| NH3         | monthly avg | 18.20  | 5         | 1          |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|                              |                                    |
|------------------------------|------------------------------------|
| <b>Date</b><br>December-2016 | <b>Station</b><br>Peenya Indl Area |
|                              | <b>City</b><br>Bangalore           |
|                              | <b>State</b><br>Karnataka          |

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index | check | Air Quality Index |
|-------------|-------------|--|-----------|-------|-------------------|
| PM10        | Monthly avg | 105.00   | 103       | 1     | <b>AQI = 103</b>  |
| PM2.5       | Monthly avg | 45.90  | 77        | 1     |                   |
| SO2         | Monthly avg | 2.00   | 3         | 1     |                   |
| NO2         | Monthly avg | 28.00  | 35        | 1     |                   |
| *CO (mg/m3) | Monthly avg | 0.00   | 0         | 0     |                   |
| O3          | Monthly avg | 0.00   | 0         | 0     |                   |
| NH3         | Monthly avg | 29.40  | 7         | 1     |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|                              |   |
|------------------------------|---|
| <b>Date</b><br>December-2016 | <b>Station</b><br>Saneguruvanahalli-CAAQM |
|                              | <b>City</b><br>Bangalore                  |
|                              | <b>State</b><br>Karnataka                 |

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index | check | Air Quality Index |
|-------------|-------------|--|-----------|-------|-------------------|
| PM10        | monthly avg | 43.00  | 43        | 1     | <b>AQI = 76</b>   |
| PM2.5       | monthly avg | 0.00   | 0         | 0     |                   |
| SO2         | monthly avg | 4.40   | 6         | 1     |                   |
| NO2         | monthly avg | 61.00  | 76        | 1     |                   |
| *CO (mg/m3) | monthly avg | 0.60   | 30        | 1     |                   |
| O3          | monthly avg | 0.00   | 0         | 0     |                   |
| NH3         | monthly avg | 0.00   | 0         | 0     |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5  
 \* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|                              |                                 |  |
|------------------------------|---------------------------------|--|
| <b>Date</b><br>December-2016 | <b>Station</b><br>City<br>State | van Silk Pvt.Ltd, Peenya<br>Bangalore<br>Karnataka |
|------------------------------|---------------------------------|--|

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index | check | Air Quality Index |
|-------------|-------------|--|-----------|-------|-------------------|
| PM10        | monthly avg | 106.00   | 104       | 1     | <b>AQI = 104</b>  |
| PM2.5       | monthly avg | 48.70  | 81        | 1     |                   |
| SO2         | monthly avg | 2.00   | 3         | 1     |                   |
| NO2         | monthly avg | 29.60  | 37        | 1     |                   |
| *CO (mg/m3) | monthly avg | 0.00   | 0         | 0     |                   |
| O3          | monthly avg | 0.00   | 0         | 0     |                   |
| NH3         | monthly avg | 18.40  | 5         | 1     |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|                              |                                 |   |
|------------------------------|---------------------------------|---|
| <b>Date</b><br>December-2016 | <b>Station</b><br>City<br>State | Regional Office-Tumkur<br>Tumkur<br>Karnataka |
|------------------------------|---------------------------------|---|

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index |            | Air Quality Index |
|-------------|-------------|--|-----------|------------|-------------------|
| PM10        | monthly avg | 129.00   | 119       | check<br>1 | <b>AQI = 119</b>  |
| PM2.5       | monthly avg | 21.40  | 36        | 1          |                   |
| SO2         | monthly avg | 2.00   | 3         | 1          |                   |
| NO2         | monthly avg | 29.90  | 37        | 1          |                   |
| *CO (mg/m3) | monthly avg | 0.00   | 0         | 0          |                   |
| O3          | monthly avg | 0.00   | 0         | 0          |                   |
| NH3         | monthly avg | 16.70  | 4         | 1          |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|                              |                                   |
|------------------------------|-----------------------------------|
| <b>Date</b><br>December-2016 | <b>Station</b><br>UVCE K R Circle |
|                              | <b>City</b><br>Bangalore          |
|                              | <b>State</b><br>Karnataka         |

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index | check | Air Quality Index |
|-------------|-------------|--|-----------|-------|-------------------|
| PM10        | monthly avg | 72.00  | 72        | 1     | <b>AQI = 72</b>   |
| PM2.5       | monthly avg | 24.40  | 41        | 1     |                   |
| SO2         | monthly avg | 2.00   | 3         | 1     |                   |
| NO2         | monthly avg | 25.60  | 32        | 1     |                   |
| *CO (mg/m3) | monthly avg | 0.00   | 0         | 0     |                   |
| O3          | monthly avg | 0.00   | 0         | 0     |                   |
| NH3         | monthly avg | 14.90  | 4         | 1     |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|                              |                                     |
|------------------------------|-------------------------------------|
| <b>Date</b><br>December-2016 | <b>Station</b><br>Victoria Hospital |
|                              | <b>City</b><br>Bangalore            |
|                              | <b>State</b><br>Karnataka           |

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index | check | Air Quality Index |
|-------------|-------------|--|-----------|-------|-------------------|
| PM10        | Monthly avg | 70.00  | 70        | 1     | <b>AQI = 70</b>   |
| PM2.5       | Monthly avg | 37.30  | 62        | 1     |                   |
| SO2         | Monthly avg | 2.00   | 3         | 1     |                   |
| NO2         | Monthly avg | 38.40  | 48        | 1     |                   |
| *CO (mg/m3) | Monthly avg | 0.00   | 0         | 0     |                   |
| O3          | Monthly avg | 0.00   | 0         | 0     |                   |
| NH3         | Monthly avg | 26.10  | 7         | 1     |                   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5  
 \* The check displays "1" when a non-zero value is entered

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

# Calculation of AQI

|               |  |                |               |
|---------------|--|----------------|---------------|
| <b>Date</b>   |  | <b>Station</b> | Yeshwanthpura |
| December-2016 |  | <b>City</b>    | Bangalore     |
|               |  | <b>State</b>   | Karnataka     |

| Pollutants  |             | concentration in $\mu\text{g}/\text{m}^3$<br>(except for CO) | Sub-Index |            | Air Quality Index   |
|-------------|-------------|--|-----------|------------|---|
| PM10        | Monthly avg | 99.00  | 99        | check<br>1 | <b>AQI =</b><br><div style="border: 2px solid black; background-color: #90EE90; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: 10px auto;"> <span style="font-size: 24px; font-weight: bold;">99</span> </div> |
| PM2.5       | Monthly avg | 48.20  | 80        | 1          |   |
| SO2         | Monthly avg | 2.00   | 3         | 1          |   |
| NO2         | Monthly avg | 40.30  | 50        | 1          |   |
| *CO (mg/m3) | Monthly avg | 0.00   | 0         | 0          |   |
| O3          | Monthly avg | 0.00   | 0         | 0          |   |
| NH3         | Monthly avg | 30.50  | 8         | 1          |   |

\* Concentrations of minimum three pollutants are required; one of them should be PM10 or PM2.5

\* The check displays "1" when a non-zero value is entered

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



**AAQM results for the month of Dec -2016**

| Sl. No.   | Name of the Monitoring Station          | Date of Monitoring | (24 hrs Time Weighted Average)        |  |                                      |                                      |                                      |                         |                         |
|---|---|--------------------|---------------------------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------|-------------------------|
|   |   |                    | PM <sub>10</sub><br>µg/m <sup>3</sup> | PM <sub>2.5</sub><br>µg/m <sup>3</sup> | SO <sub>2</sub><br>µg/m <sup>3</sup> | NO <sub>2</sub><br>µg/m <sup>3</sup> | NH <sub>3</sub><br>µg/m <sup>3</sup> | Pb<br>µg/m <sup>3</sup> | CO<br>mg/m <sup>3</sup> |
| 1   | AMCO Batteries,                         | Dec-16             | 101.9                                 | 48.6                                   | 2.0                                  | 35.1                                 | 24.4                                 | *                       | *                       |
| 2   | Central Silk Board, Hosur Road,         | Dec-16             | 112.0                                 | 54.2                                   | 2                                    | 40.5                                 | 32.5                                 | *                       | *                       |
| 3   | Indhira Gandhi Children Health Care     | Dec-16             | 71.0                                  | 33.4                                   | 2                                    | 28.4                                 | 17.9                                 | *                       | *                       |
| 4   | Graphite India Ltd., White Field Road.  | Dec-16             | 137.2                                 | 49.7                                   | 2.0                                  | 26.4                                 | 17.7                                 | *                       | *                       |
| 5   | Mr. Madhachari's House Kazisonnenihalli | Dec-16             | 70.0                                  | 29.7                                   | 2                                    | 21.1                                 | 14.7                                 | *                       | *                       |
| 6   | KHB Ind. Area, Yelahanka                | Dec-16             | 145.0                                 | 60.1                                   | 2.0                                  | 24.5                                 | 12.8                                 | *                       | *                       |
| 7   | Swan Silk Pvt. Ltd., Peenya             | Dec-16             | 106.0                                 | 48.7                                   | 2.0                                  | 29.6                                 | 18.4                                 | *                       | *                       |
| 8   | Urban Eco Park, Peenya                  | Dec-16             | 105.0                                 | 45.9                                   | 2                                    | 28.0                                 | 29.4                                 | *                       | *                       |
| 9   | Victoria Hospital, K. R. Market         | Dec-16             | 70.0                                  | 37.3                                   | 2                                    | 38.4                                 | 26.1                                 | *                       | *                       |
| 10  | Yeswanthapura Police Station            | Dec-16             | 99.0                                  | 48.2                                   | 2                                    | 40.3                                 | 30.5                                 | *                       | *                       |
| 11  | Terri Office, Old Air Port Road, Domlur | Dec-16             | *                                     | *                                      | *                                    | **                                   | *                                    | *                       | *                       |
| 12  | Banasawadi Police Station               | Dec-16             | 87.0                                  | 33.7                                   | 2                                    | 27.9                                 | 11.4                                 | *                       | *                       |
| 13  | UVCE, K.R Circle                        | Dec-16             | 72.0                                  | 24.4                                   | 2                                    | 25.6                                 | 14.9                                 | *                       | *                       |
| 14  | City RailwayStation CAAQM               | Dec-16             | 127.0                                 | *                                      | 6.7                                  | 85.1                                 | *                                    | *                       | 1.1                     |
| 15  | Sanegruvanahalli CAAQM                  | Dec-16             | 43.0                                  | *                                      | 4.4                                  | 61.0                                 | *                                    | *                       | 0.6                     |
| 16  | RO Tumkur                               | Dec-16             | 129.0                                 | 21.4                                   | 2                                    | 29.9                                 | 16.7                                 | *                       | *                       |
| 17  | RO Kolar                                | Dec-16             | 77.0                                  | 39.7                                   | 2                                    | 27.7                                 | 18.2                                 | *                       | *                       |
| <b>Standards (24 hrs Time Weighted Average)</b> |   |                    | <b>100.0</b>                          | <b>60.0</b>                            | <b>80.0</b>                          | <b>80.0</b>                          | <b>400.0</b>                         | <b>1.0</b>              | <b>2.0</b>              |