

AIR QUALITY INDEX JULY-2016



CENTRAL POLLUTION CONTROL BOARD
MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE
Parivesh Bhawan, East Arjun Nagar Delhi-110032

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Parivesh Bhawan, East Arjun Nagar, Delhi-110032

Website: <http://www.cpcb.nic.in/>

e-mail: cpcb@nic.in

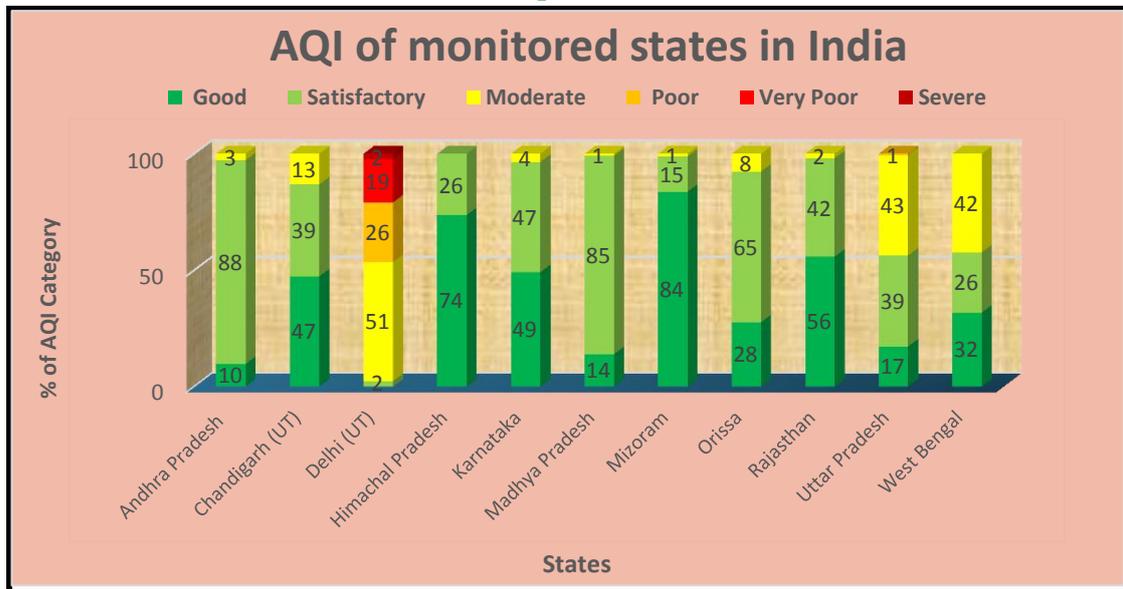
July 2016

Contributions by CPCB & Others

Principal Coordinator	Dr. A. B. Akolkar, Member Secretary, CPCB Dr. Sanjeev Agrawal, Scientist 'E', CPCB PAMS Division
Data Collection, Compilation, Scrutiny, Storage and Report Preparation	Dr. Sanjeev Agrawal, Scientist 'E' Sh. Tarun Darbari, Scientist 'C' Dr. Sanghita Roychoudhury, RA Mr. Mahipal Singh 'SA' Ms. Razia Sultan, DEO

National Air Quality Index

*National Air Quality Index for 55 cities at 134 locations,
July 2016*



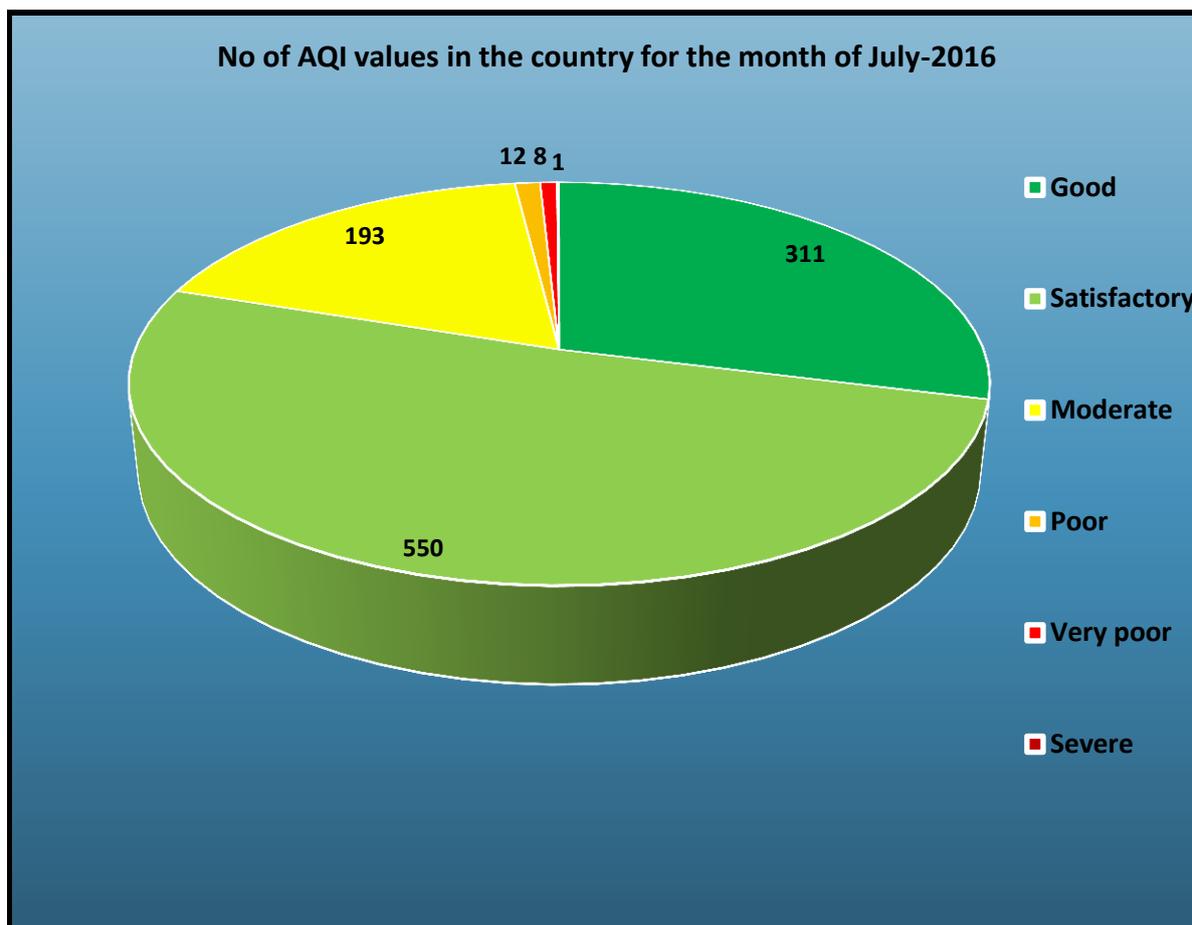
*Bulletin of Ambient Air Quality
National Ambient Air Quality Monitoring Programme (NAMP)
Manual monitoring system*



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August 2016



Introduction

Air Quality Index in addition to land and water, air is the prime resource for sustenance of life. With the technological advancements, a vast amount of data on ambient air quality is generated and used to establish the quality of air in different areas. The large monitoring data result in encyclopaedic volumes of information that neither gives a clear picture to a decision maker nor to a common man who simply wants to know how good or bad the air is? One way to describe air quality is to report the concentrations of all pollutants with acceptable levels (standards). As the number of sampling stations and pollution parameters (and their sampling frequencies) increase, such descriptions of air quality tend to become confusing even for the scientific and technical community.

As for the general public, they usually will not be satisfied with raw data, time series plots, statistical analyses, and other complex findings pertaining to air quality. The result is that people tend to lose interest and can neither appreciate the state of air quality nor the pollution mitigation efforts by regulatory agencies. Since awareness of daily levels of urban air pollution is important to those who suffer from illnesses caused by exposure to air pollution, the issue of air quality communication should be addressed in an effective manner. Further, the success of a nation to improve air quality depends on the support of its citizens who are well-informed about local and national air pollution problems and about the progress of mitigation efforts.

About National Air Quality Index

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.

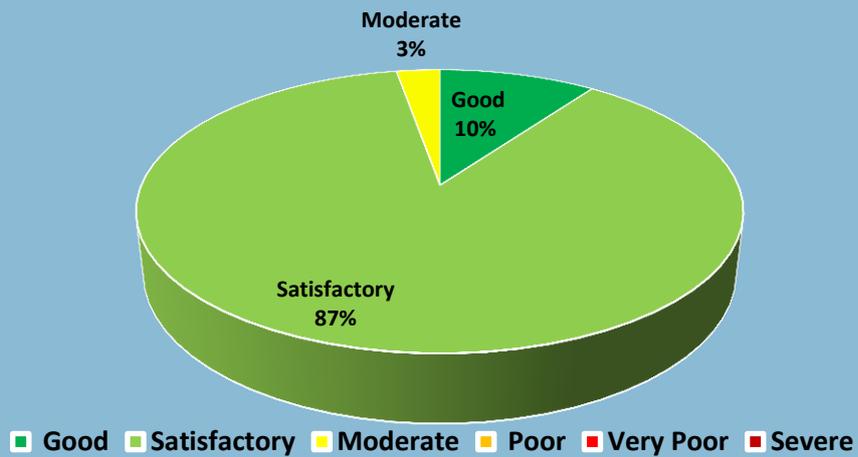
There are six AQI categories, namely Good, Satisfactory, Moderately polluted, Poor, Very Poor, and Severe. Each of these categories is decided based on ambient concentration values of air pollutants and their likely health impacts (known as health breakpoints). AQ sub-index and health breakpoints are evolved for eight pollutants (PM₁₀, PM_{2.5}, NO₂, SO₂, CO, O₃, NH₃, and Pb) for which short-term (upto 24-hours) National Ambient Air Quality Standards are prescribed.

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_{2.5} will be 51 at concentration 31 µg/m³ , 100 at concentration 60 µg/m³ , and 75 at concentration of 45 µg/m³). The worst sub-index determines the overall AQI. AQI categories and health breakpoints for the eight pollutants are as follow:

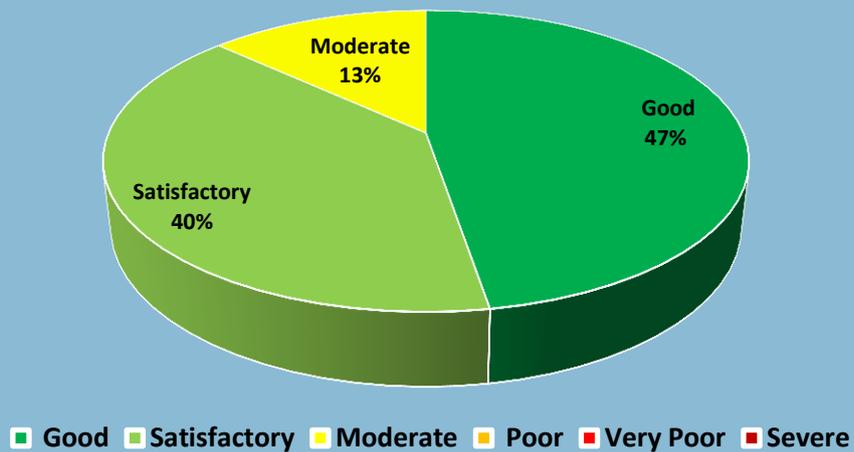
AQI Category	AQI	Concentration range*							
		PM ₁₀	PM _{2.5}	NO ₂	O ₃	CO	SO ₂	NH ₃	Pb
Good	0-50	0 - 50	0 - 30	0-40	0-50	0-1.0	0-40	0-200	0-0.5
Satisfactory	51-100	51-100	31-60	41-80	51-100	1.1-2.0	41-80	201-400	0.5-1.0
Moderate	101-200	101-250	61-90	81-180	101-168	2.1-10	81-380	401-800	1.1-2.0
Poor	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+

* CO in mg/m³ and other pollutants in µg/m³; 2h-hourly average values for PM₁₀, PM_{2.5}, NO₂, SO₂, NH₃, and Pb, and 8-hourly values for CO and O₃.

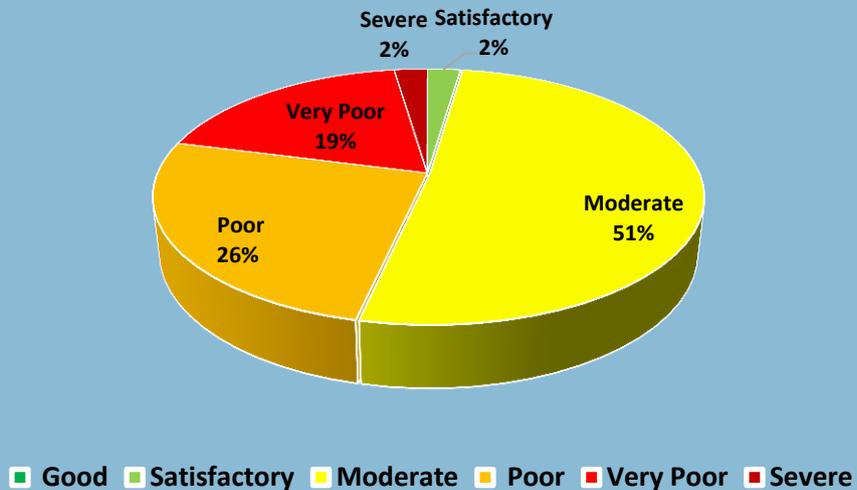
Percentage(%) of AQI Andhra Pradesh in July-2016



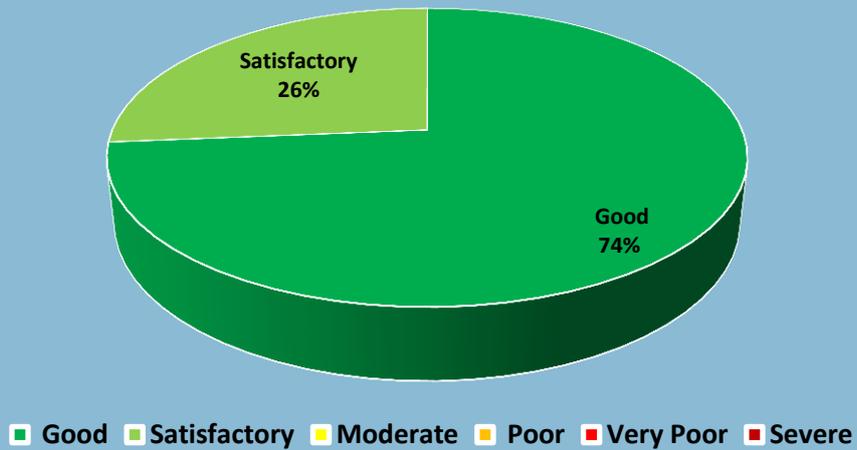
Percentage(%) of AQI Chandigarh in July-2016



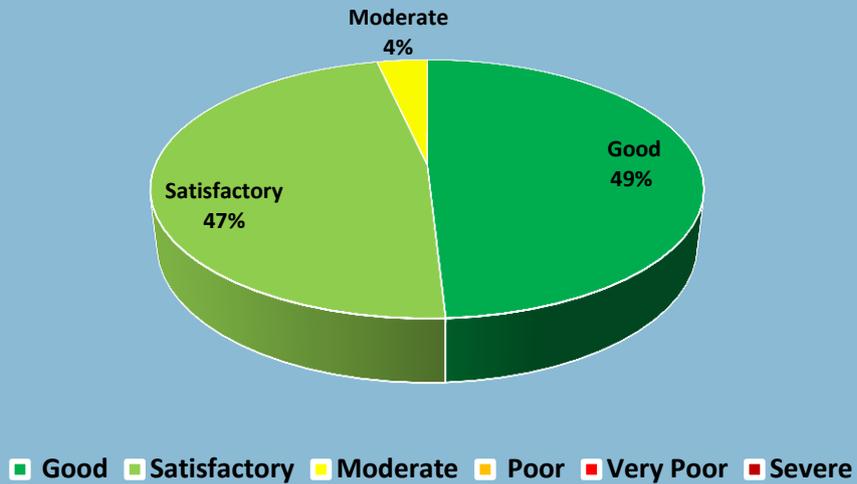
Percentage(%) of AQI Delhi in July-2016



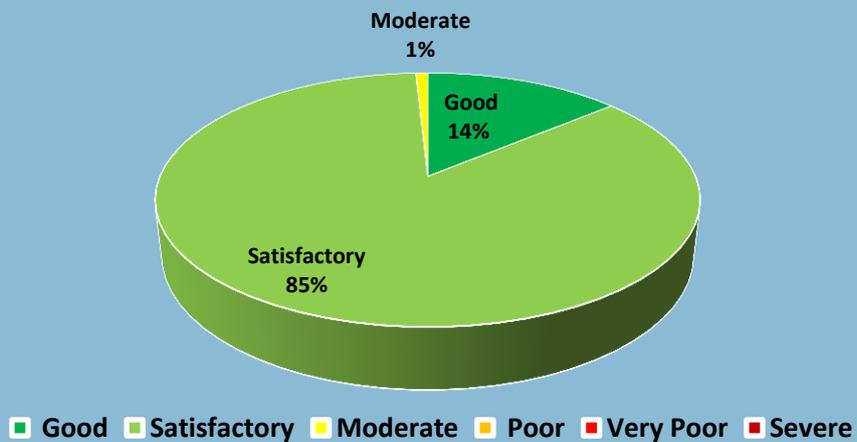
Percentage(%) of AQI Himachal Pradesh in July-2016

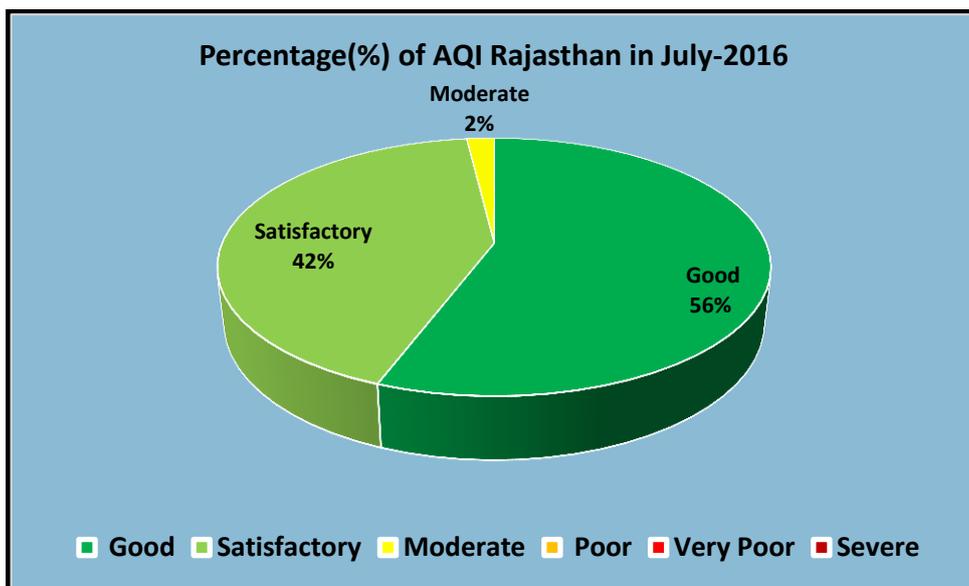
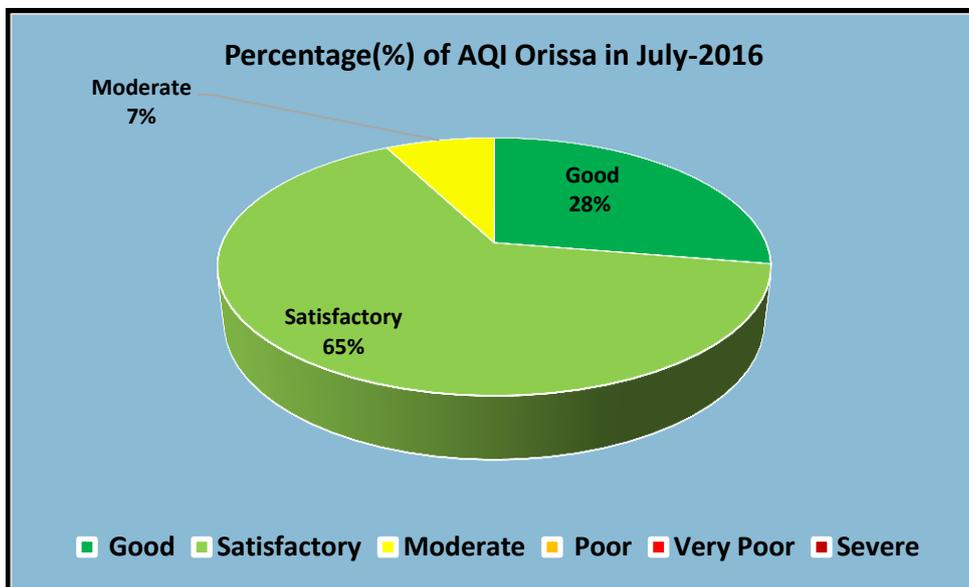
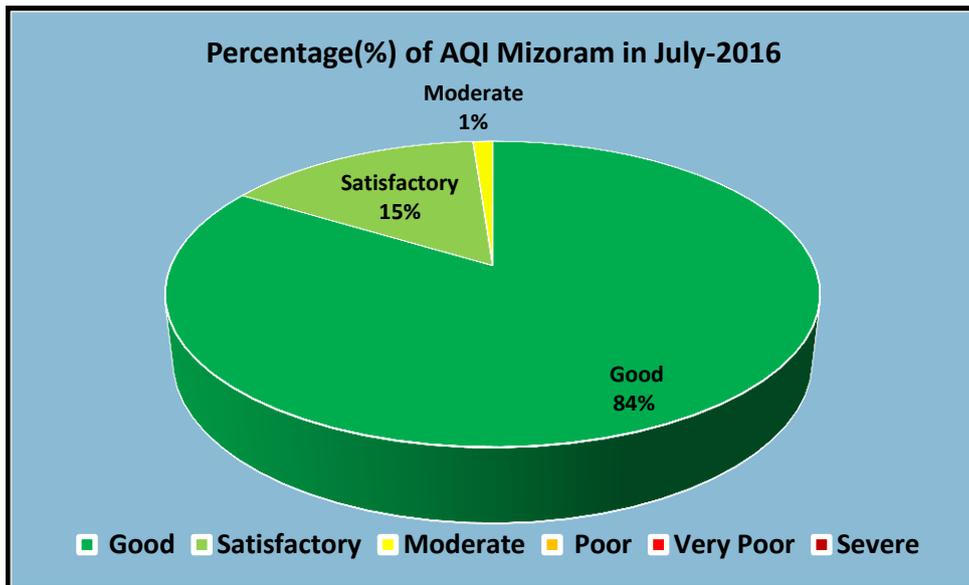


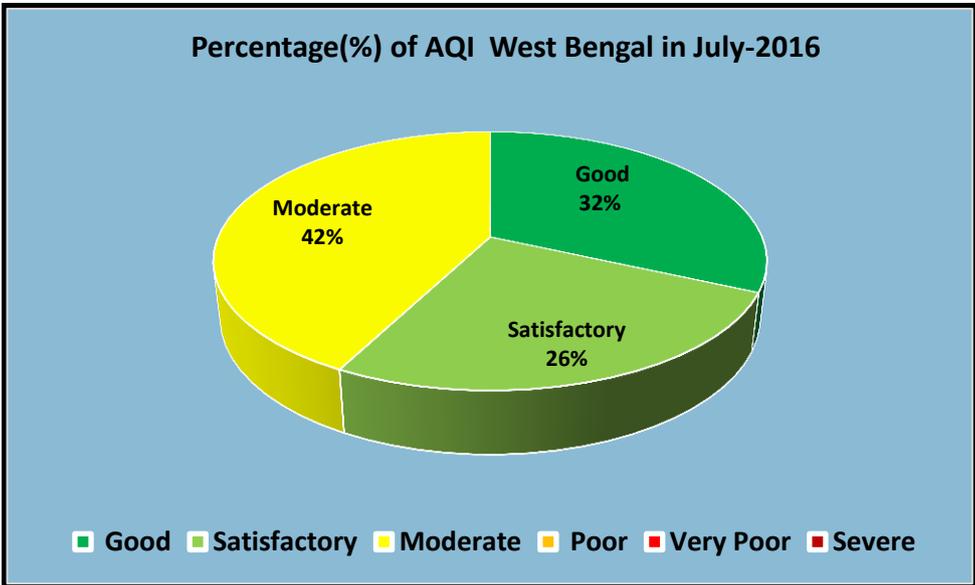
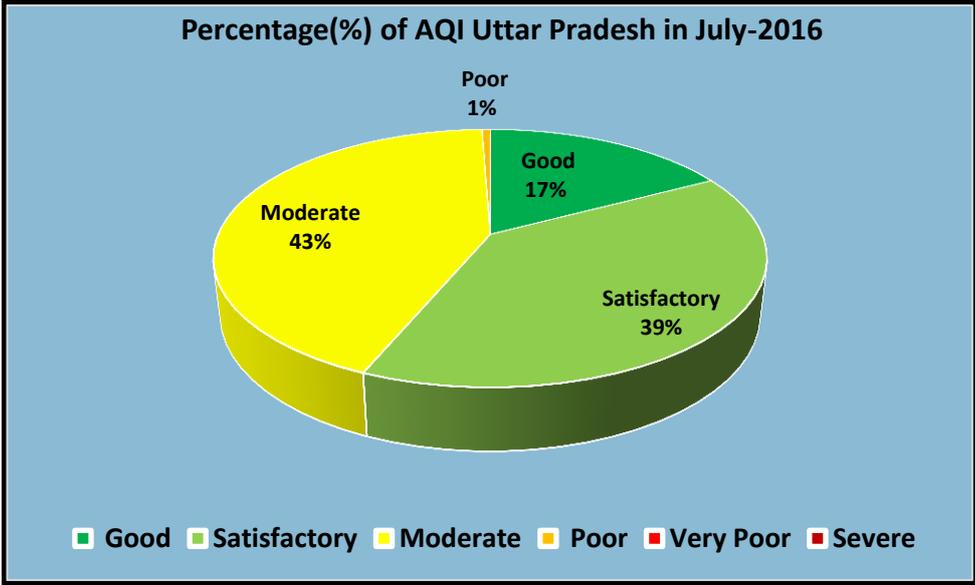
Percentage(%) of AQI Karnataka in July-2016



Percentage(%) of AQI Madhya Pradesh in July-2016







How is AQI calculated?

The Sub-indices for individual pollutants at a monitoring location are calculated using its 24-hourly average concentration value (8-hourly in case of CO and O3) and health breakpoint concentration range. The worst sub-index is the AQI for that location.

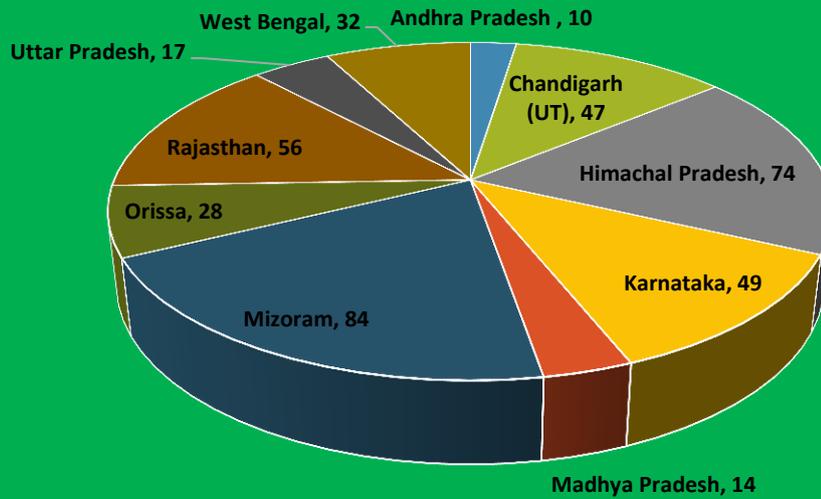
All the eight pollutants may not be monitored at all the locations. Overall AQI is calculated only if data are available for minimum three pollutants out of which one should necessarily be either PM2.5 or PM10. Else, data are considered insufficient for calculating AQI. Similarly, a minimum of 16 hours' data is considered necessary for calculating sub index.

The sub-indices for monitored pollutants are calculated and disseminated, even if data are inadequate for determining AQI. The Individual pollutant-wise sub-index will provide air quality status for that pollutant.

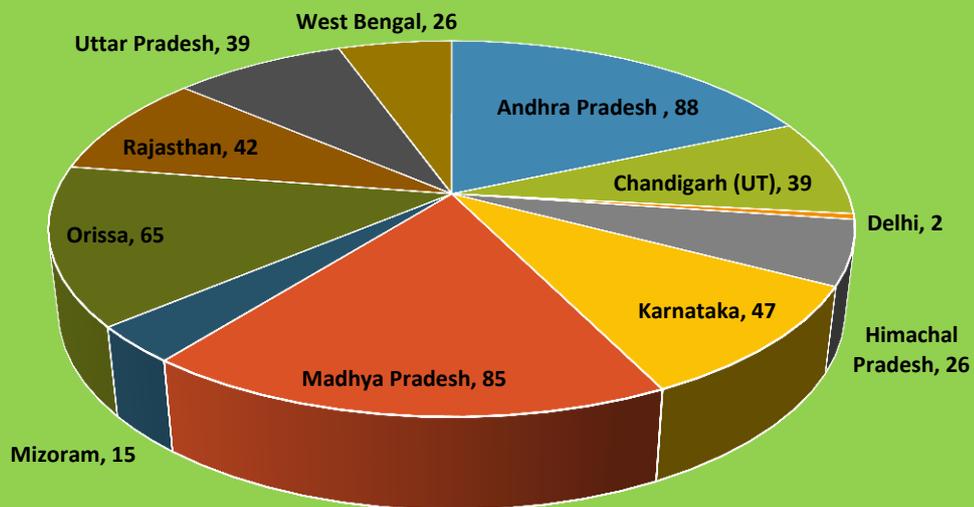
The web-based system is designed to provide AQI on real time basis. It is an automated system that captures data from continuous monitoring stations without human intervention, and displays AQI based on running average values (e.g. AQI at 6am on a day will incorporate data from 6am on previous day to the current day). 5. For manual monitoring stations, an AQI calculator is developed wherein data can be fed manually to get AQI value.

Calculation of AQI						
Date DD-MM-YYYY			Station City State	Delhi Delhi	NSIT	
Pollutants		concentration in $\mu\text{g}/\text{m}^3$ (except for CO)	Sub-Index			Air Quality Index
PM10	24-hr avg	121.00	114	check		<div style="border: 2px solid black; padding: 10px; width: 100px; margin: auto;"> 114 </div>
PM2.5	24-hr avg	34.00	57	1		
SO2	24-hr avg	0.00	0	0		
NOx	24-hr avg	8.00	10	1	AQI =	
*CO (mg/m3)	max 8-hr	0.00	0	0		
O3	max 8-hr	57.00	57	1		
NH3	24-hr avg	34.00	9	1		
<small>* 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</small>						
Good (0-50)	Minimal Impact			Poor (201-300)	Breathing discomfort to people on prolonged exposure	
Satisfactory (51-100)	Minor breathing discomfort to sensitive people			Very Poor (301-400)	Respiratory illness to the people on prolonged exposure	
Moderate (101-200)	Breathing discomfort to the people with lung, heart disease, children and older adults			Severe (>401)	Respiratory effects even on healthy people	

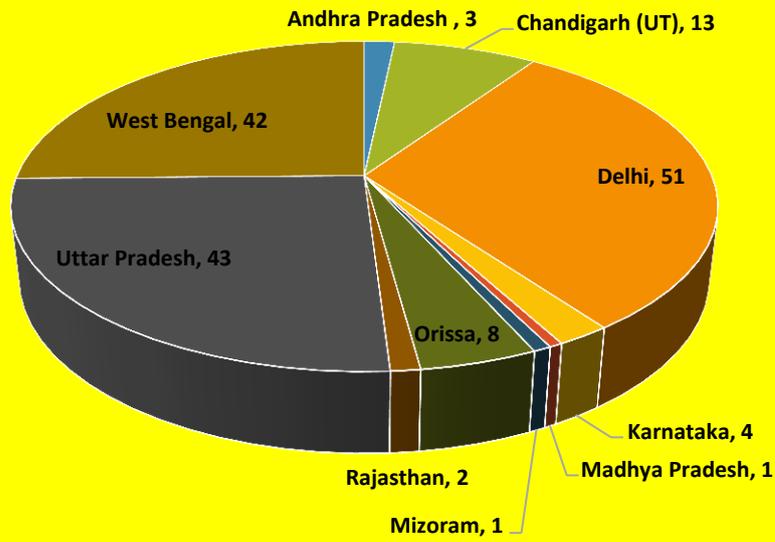
Percentage of Observation in Good Categories in respective States



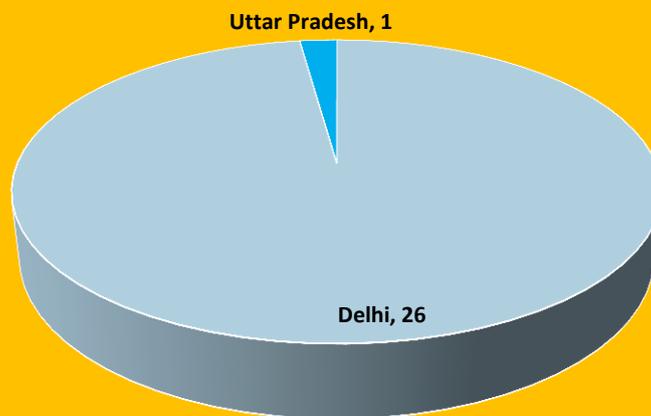
Percentage of Observation in Satisfactory Categories in respective States



Percentage of Observation in Moderate Categories in respective States

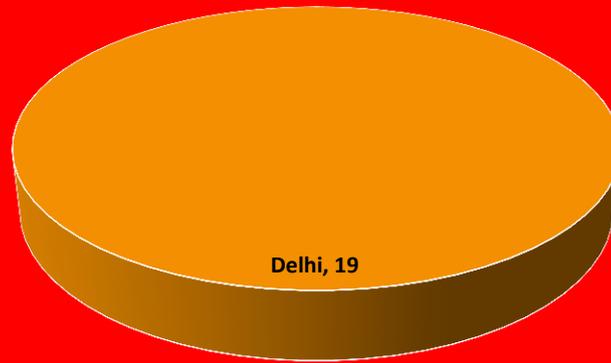


Percentage of Observation in Poor Categories in respective States



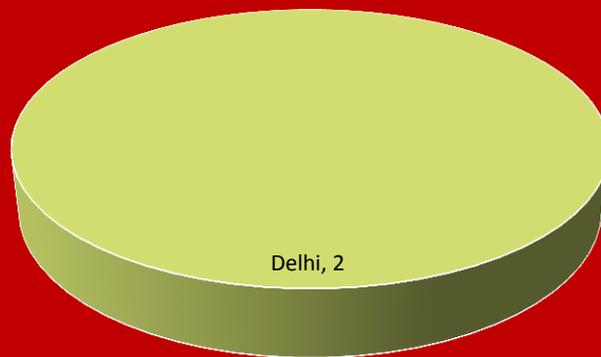
- Andhra Pradesh
- Chandigarh (UT)
- Delhi
- Himachal Pradesh
- Karnataka
- Madhya Pradesh
- Mizoram
- Orissa
- Rajasthan
- Uttar Pradesh
- West Bengal

Percentage of Observation in Very Poor Categories in respective States



- Andhra Pradesh
- Chandigarh (UT)
- Delhi
- Himachal Pradesh
- Karnataka
- Madhya Pradesh
- Mizoram
- Orissa
- Rajasthan
- Uttar Pradesh
- West Bengal

Percentage of Observation in Severe Categories in respective States



- Andhra Pradesh
- Chandigarh (UT)
- Delhi
- Himachal Pradesh
- Karnataka
- Madhya Pradesh
- Mizoram
- Orissa
- Rajasthan
- Uttar Pradesh
- West Bengal

Revised National Ambient Air Quality Standards (NAAQS)

[NAAQS Notification dated 18th November, 2009]

S. No.	Pollutants	Time Weighted Average	Concentration in Ambient Air		Methods of Measurement
			Industrial, Residential, Rural and other Areas	Ecologically Sensitive Area (notified by Central Government)	
1	Sulphur Dioxide (SO ₂), µg/m ³	Annual*	50	20	1. Improved West and Gaeke 2. Ultraviolet Fluorescence
		24 Hours**	80	80	
2	Nitrogen Dioxide (NO ₂), µg/m ³	Annual*	40	30	1. Modified Jacob & Hochheiser 2. Chemiluminescence
		24 Hours**	80	80	
3	Particulate Matter (Size <10µm) or PM ₁₀ µg/m ³	Annual*	60	60	1. Gravimetric 2. TEOM 3. Beta attenuation
		24 Hours**	100	100	
4	Particulate Matter (Size <2.5 µm) or PM _{2.5} µg/m ³	Annual*	40	40	1. Gravimetric 2. TEOM 3. Beta attenuation
		24 Hours**	60	60	
5	Ozone (O ₃), µg/m ³	8 hours**	100	100	1. UV photometric 2. Chemiluminescence 3. Chemical Method
		1 hours**	180	180	
6	Lead (Pb), µg/m ³	Annual*	0.50	0.50	1. AAS/ICP Method after sampling using EPM 2000 or equivalent filter paper 2. ED-XRF using Teflon filter
		24 Hour**	1.0	1.0	
7	Carbon Monoxide (CO), mg/m ³	8 Hours**	02	02	Non dispersive Infra Red (NDIR) Spectroscopy
		1 Hour**	04	04	
8	Ammonia (NH ₃), µg/m ³	Annual*	100	100	1. Chemiluminescence 2. Indophenol blue method
		24 Hour**	400	400	
9	Benzene (C ₆ H ₆), µg/m ³	Annual*	05	05	1. Gas chromatography based continuous analyzer 2. Adsorption and Desorption followed by GC analysis
10	Benzo(a)Pyrene (BaP)-particulate phase only, ng/m ³	Annual*	01	01	Solvent extraction followed by HPLC/GC analysis
11	Arsenic (As), ng/m ³	Annual*	06	06	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni), ng/m ³	Annual*	20	20	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper

* Annual Arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform interval. ** 24 hourly 08 hourly or 01 hourly monitored values, as applicable shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.
NOTE: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

Status of Category-wise numbers of AQI in cities during July 2016

State	City	Total AQI numbers in cities	Good (0-50)	Satisfactory (51-100)	Moderate (101-200)	Poor (201-300)	Very Poor (301-400)	Severe (401-500)
Andhra Pradesh	VISAKHAPATNAM	70	0	67	3	0	0	0
	SRIKAKULAM	9	2	7	0	0	0	0
	VIZIANAGARAM	6	0	6	0	0	0	0
	Kakinada	6	0	6	0	0	0	0
	Rajahmundry	8	1	7	0	0	0	0
	Vijayawada	27	0	24	3	0	0	0
	Guntur	9	0	9	0	0	0	0
	Nellore	9	0	9	0	0	0	0
	Prakasam	9	0	9	0	0	0	0
	Eluru	9	0	9	0	0	0	0
	Kurnool	9	6	3	0	0	0	0
	Ananthapur	9	2	7	0	0	0	0
Chittoor	18	3	15	0	0	0	0	
Tirupathi	9	7	2	0	0	0	0	
Yerraguntla YSR District	9	0	9	0	0	0	0	
Chandigarh	Chandigarh	38	18	15	5	0	0	0
Delhi	Delhi	43	0	1	22	11	8	1
Himachal Pradesh	Manali	19	14	5	0	0	0	0
Karnataka	Hubli/Dharwad	16	0	16	0	0	0	0
	Davangere	25	15	8	2	0	0	0
	Bhadravathi	8	8	0	0	0	0	0
	Chitradurga	8	5	3	0	0	0	0
Madhya Pradesh	Ujjain	16	0	15	1	0	0	0
	Nagda	22	11	11	0	0	0	0
	singrauli	16	0	16	0	0	0	0
	Gwalior	11	0	11	0	0	0	0
	Jabalpur	8	1	7	0	0	0	0
	Dewas	21	0	21	0	0	0	0
Mizoram	Bhopal	21	4	17	0	0	0	0
	Aizawl	40	26	13	1	0	0	0
	Champhai	14	14	0	0	0	0	0
	Kolasib District	16	16	0	0	0	0	0
Orissa	Lunglei	16	16	0	0	0	0	0
	Cuttack	26	8	18	0	0	0	0
	Rayagada	18	8	10	0	0	0	0
	Bhubaneswar	46	11	28	7	0	0	0
	Konark	7	0	7	0	0	0	0
Rajasthan	Puri	8	2	5	1	0	0	0
	Kota	52	29	22	1	0	0	0
Uttar Pradesh	Raebareli	20	0	12	8	0	0	0
	Moradabad	15	0	3	12	0	0	0
	Jhansi	18	0	18	0	0	0	0
	Gajraula	14	1	2	10	1	0	0
	Allahabad	11	0	5	6	0	0	0
	Firozabad	26	0	8	18	0	0	0
	Khurja	17	0	0	17	0	0	0
West Bengal	Agra	53	29	20	4	0	0	0
	Howrah	36	7	29	0	0	0	0
	Asansol	27	0	0	27	0	0	0
	Ranigunj	27	0	0	27	0	0	0
	South Suburban	18	14	4	0	0	0	0
	Sankrail	27	26	1	0	0	0	0
	Durgapur	18	0	0	18	0	0	0
Total States = 11	Total Cities = 55	Total Number of AQI = 1075	Good category covering 29 cities	Satisfactory category covering 47 cities	Moderate category covering 20 cities	Poor category covering 2 cities	Very poor category covering 1 city	Severe category covering 1 city
			Number of AQI = 311	Number of AQI = 550	Number of AQI = 193	Number of AQI = 12	Number of AQI = 8	Number of AQI = 1

Summary Status of Air Quality Index (AQI) for the Month of July 2016

Sl. No. State	State/Union Territory	Sl. No. Cities	City	Data Receive for No. of Station	No of Observation/Daily AQI
1	Andhra Pradesh	1	Visakhapatnam	8	70
		2	Kakinada	1	6
		3	Rajamundry	1	8
		4	Eluru	1	9
		5	Vizianagaram	1	6
		6	Srikakulam	1	9
		7	Kurnool	1	9
		8	Tirupati	1	9
		9	Chittor	2	18
		10	Kadapa	1	9
		11	Anatapur	1	9
		12	Vijayawada	3	27
		13	Guntur	1	9
		14	Ongole	1	9
		15	Nellore	1	9
2	Chandigarh (UT)	16	Chandigarh	3	38
3	Delhi (UT)	17	Delhi	6	43
4	Himachal Pradesh	18	Manali	2	19
5	Karnataka	19	Dharwar, Hubli	2	16
		20	Davangere	3	25
		21	Bhadravathi	1	8
		22	Chitradurga	1	8
6	Madhya Pradesh	23	Bhopal	6	21
		24	Jabalpur	2	8
		25	Nagda	3	22
		26	Gwalior	2	11
		27	Singrauli	3	16
		28	Ujjain	3	16
		29	Dewas	3	21
7	Mizoram	30	Aizwal	5	40
		31	Lunglei	2	16
		32	Kolasib	2	16
		33	Champhai	2	14
8	Orissa	34	Rayagada	2	18
		35	Bhubaneshwar	6	46
		36	Cuttack	3	26
		37	Puri	1	8
		38	Konark	1	7
9	Rajasthan	39	Kota	6	52
10	Uttar Pradesh	40	Allahabad	2	11
		41	Firozabad	3	26
		42	Gajroula	2	14
		43	Jhansi	2	18
		44	Khurja	2	17
		45	Moradabad	2	15
		46	Agra	4	53
		47	Rai Bareli	3	20
11	West Bengal	48	Kolkata	1	9
		49	Durgapur	2	18
		50	Howrah	4	36
		51	Asansol	3	27
		52	Barrckpore	1	8
		53	Ranigunj	3	27
		54	South Suburban	2	18
		55	Sankrail	3	27
States = 11		Cities = 55		Location / AAQ Station = 134	Observation*/ AQI* numbers= 1075

Note: - *-One observation means one AQI Calculated for daily ambient air quality data at one station. Several AQI are obtained from one station for several days.

National Air Quality Index

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

National Air Quality Index for 55 cities at 134 locations of India, July 2016

Monthly Bulletin of Ambient Air Quality through Manual monitoring system

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 colour. 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 (PM₁₀, PM_{2.5}, NO₂, SO₂, CO, O₃, NH₃, and Pb) for which short-term (upto 24-hours) National Ambient Air Quality Standards are prescribed. 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_{2.5} will be 51 at concentration 31 µg/m³, 100 at concentration 60 µg/m³ and 75 at concentration of 45 µg/m³). The worst sub-index determines the overall AQI.

Cities in different categories of AQI for the month of July:

Of the total 55 cities covered for calculation of AQI during July 2016, 29 cities revealed good air quality with 311 no of observation/AQI falling in this category, 47 cities revealed satisfactory air quality with 550 no of observation/AQI falling in this category, 20 cities revealed moderate air quality with 193 no of observation/AQI falling in this category, 2 cities indicate poor air quality with 12 no of observation/AQI falling in this category, 1 cities showed very poor air quality with 8 no of observation/AQI falling in this category, 1 cities showed severe air quality with 1 no of observation/AQI falling in this category.

Note:- a particular city may fall in one category for no of days with the same city fall in other categories for other days in the months.

National Network:

At present, continuous air quality monitoring stations from 24 cities are connected to the web-based system. Efforts are being made to connect more cities, where continuous monitoring systems are operated by various State Pollution Control Boards (SPCBs). It is planned to strengthen the network of monitoring systems in all 46 cities having population more than a million and 20 State Capitals, and networking them to the central AQI portal, in phased manner. With regard to manual stations in the million plus cities (46 cities), SPCBs have been advised to use AQI calculator and publicize it with minimum time lag, as required for laboratory analysis. Central Pollution Control Board has initiated **National Air Quality Monitoring Programme (NAMP; manual monitoring system)** in the year 1984. Under NAMP, three air pollutants viz., Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂) and Particulate Matter size equal to or less than 10 micron (PM₁₀), have been identified for regular monitoring at all the locations. The NAMP network presently comprises 621 operating monitoring stations located in 262 cities/towns in 29 states and 5 union territories across the country. National AQI bulletin was calculated for the month of July 2016 for 11 states covering 55 cities at 134 locations / ambient air quality monitoring stations with 1075 AQI values. The status of the cities with respect to AQI during July 2016 is summarized below.

Overall AQI category-wise observation:

Of the total cities covered (55 cities), 29% of AQI value i.e. 311 AQI values in the country out of total 1075 AQI values revealed good air quality and 51 % of AQI value i.e. 550 AQI values in the country showed satisfactory air quality where the predominant pollutant during those days was PM₁₀, PM_{2.5} and NO₂. Further, the data showed that 18 % of AQI value i.e. 193 AQI values in the country out of total 1075 AQI values showed moderate air quality where the predominant pollutant during those days was PM₁₀ and PM_{2.5}. further the data showed that 1% of AQI value i.e. 12 AQI values in the country out of total 1075 AQI values showed poor air quality where the predominant pollutant during those days was PM₁₀ and PM_{2.5}.

Of the total cities covered (55 cities), 1 % of AQI value i.e. 8 AQI values in the country of total 1075 AQI values showed very poor air quality where the predominant pollutant during those days was PM10 and PM2.5.

Air Quality Index for the 55 cities during July 2016

AQI category	AQI	Color Code	Number of AQI values in different category		Pollutant-wise number of AQI values in AQI category			Possible Health Impacts
			No of AQI values	% of AQI values	PM10	PM2.5	NO2	
					No of AQI values	No of AQI values	No of AQI values	
Good	0-50		311	29	257	5	49	Minimal impact
Satisfactory	51-100		550	51	497	17	36	Minor breathing discomfort to sensitive people
Moderate	101-200		193	18	177	16	0	Breathing discomfort to the people with lungs, asthma and heart diseases
Poor	201-300		12	1	7	5	0	Breathing discomfort to most people on prolonged exposure
Very poor	301-400		8	1	5	3	0	Respiratory illness on prolonged exposure
Severe	401-500		1	0	1	0	0	Affects healthy people and seriously impacts those with existing diseases
Total AQI values			1075	100	944	46	85	

Note: AQI calculated from 24 hourly data of a particular location.

Overall summary of possible health impacts:

The analysis of AQI values precisely indicating that 861 AQI values are falling in first two categories (good and satisfactory) of national AQI. A total of 80% of AQI values fall in good and satisfactory categories which indicates that the people in these areas suffer either minimal impact of the concentration of the pollutants or minor breathing discomfort for the sensitive people. The analysis of AQI values further expressing that 205 AQI values are falling in second two categories (moderate and poor) of national AQI. A total of 19% of AQI values fall in moderate and poor categories which indicates that the people in these areas may suffer from breathing discomfort to the people with lungs, asthma and heart diseases or to most people on prolonged exposure. The analysis of AQI values indicating that 9 AQI values are falling in third two categories (very poor and severe) of national AQI. A total of 1% of AQI values fall in very poor and severe categories which indicates that the people in these areas may suffer from respiratory illness on prolonged exposure Affects healthy people and seriously impacts those with existing diseases. It is pertinent to mention that impact of pollutants or air quality depends on the changes in lower atmospheric stability of the area and daily calculated index/sub-index of various pollutants along with period of exposure of pollutants to human being and the immunity status of the individuals.

Broad guidelines by Central Pollution Control Board for Public/Citizens of India

AQI is an initiative intended to enhance public awareness and involvement in efforts to improve air quality. People can contribute by maintaining vehicles properly (e.g. get PUC checks, replace car air filter, maintain right tyre pressure), following lane discipline & speed limits, avoiding prolong idling and turning off engines at red traffic signals. In addition to above, during severe or very poor AQI, people should minimize travel; avoid using private vehicles and instead use public transport, bikes or walk, and carpool; use smaller vehicles (e.g. avoid SUVs).

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State / City – wise Air Quality Index (AQI)
(Manual Monitoring under NAMP)

Status of AQI: Andhra Pradesh

Cities covered: Visakhapatnam Kakinada Rajamundry

Eluru Vizianagaram Srikakulam Kurnool Tirupati Chittoor

Kadapa Anaparthi Vijayawada Guntur Ongole Nellore during July 2016

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
1	MINDI, Gudivada Appanna Kalyanamandapam, Visakhapatnam.	VISAKHAPATNAM	Andhra Pradesh	01.07.2016	64	Satisfactory	PM10
				04.07.2016	72	Satisfactory	PM10
				07.07.2016	73	Satisfactory	PM10
				10.07.2016	75	Satisfactory	PM10
				13.07.2016	78	Satisfactory	PM10
				16.07.2016	82	Satisfactory	PM10
				19.07.2016	77	Satisfactory	PM10
				22.07.2016	81	Satisfactory	PM10
2	INDUSTRIAL ESTATE, Autonagar, Visakhapatnam.	VISAKHAPATNAM	Andhra Pradesh	01.07.2016	64	Satisfactory	PM10
				04.07.2016	79	Satisfactory	PM10
				07.07.2016	73	Satisfactory	PM10
				10.07.2016	83	Satisfactory	PM10
				13.07.2016	82	Satisfactory	PM10
				16.07.2016	90	Satisfactory	PM10
				19.07.2016	77	Satisfactory	PM10
				22.07.2016	72	Satisfactory	PM10
3	POLICE BARRACKS, Visakhapatnam.	VISAKHAPATNAM	Andhra Pradesh	01.07.2016	73	Satisfactory	PM10
				04.07.2016	91	Satisfactory	PM10
				07.07.2016	75	Satisfactory	PM10
				10.07.2016	85	Satisfactory	PM10
				13.07.2016	81	Satisfactory	PM10
				16.07.2016	81	Satisfactory	PM10
				19.07.2016	84	Satisfactory	PM10
				22.07.2016	88	Satisfactory	PM10
4	ESI-HOSPITAL, Naval area, Visakhapatnam.	VISAKHAPATNAM	Andhra Pradesh	04.07.2016	55	Satisfactory	PM10
				07.07.2016	70	Satisfactory	PM10
				10.07.2016	76	Satisfactory	PM10
				13.07.2016	62	Satisfactory	PM10
				16.07.2016	75	Satisfactory	PM10
				19.07.2016	71	Satisfactory	PM10
				22.07.2016	62	Satisfactory	PM10
				25.07.2016	62	Satisfactory	PM10
5	SEETAMMADHARA, Visakhapatnam.	VISAKHAPATNAM	Andhra Pradesh	01.07.2016	77	Satisfactory	PM10
				04.07.2016	66	Satisfactory	PM10
				07.07.2016	78	Satisfactory	PM10
				10.07.2016	121	Moderate	PM10
				13.07.2016	109	Moderate	PM10
				16.07.2016	93	Satisfactory	PM10
				19.07.2016	79	Satisfactory	PM10
				22.07.2016	84	Satisfactory	PM10
6	GNANAPURAM AREA, Visakhapatnam.	VISAKHAPATNAM	Andhra Pradesh	01.07.2016	83	Satisfactory	PM10
				04.07.2016	90	Satisfactory	PM10
				07.07.2016	84	Satisfactory	PM10
				10.07.2016	86	Satisfactory	PM10
				13.07.2016	85	Satisfactory	PM10
				16.07.2016	92	Satisfactory	PM10
				19.07.2016	102	Moderate	PM10
				22.07.2016	85	Satisfactory	PM10
7	PEDA GANTYADA, Visakhapatnam.	VISAKHAPATNAM	Andhra Pradesh	01.07.2016	67	Satisfactory	PM10
				04.07.2016	76	Satisfactory	PM10
				07.07.2016	72	Satisfactory	PM10
				10.07.2016	82	Satisfactory	PM10
				13.07.2016	86	Satisfactory	PM10
				16.07.2016	77	Satisfactory	PM10

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
				19.07.2016	76	Satisfactory	PM10
				22.07.2016	79	Satisfactory	PM10
				25.07.2016	66	Satisfactory	PM10
8	Coastal Waste Management Project (Ramky), Parawada, Visakhapatnam	VISAKHAPATNAM	Andhra Pradesh	01.07.2016	74	Satisfactory	PM10
				04.07.2016	73	Satisfactory	PM10
				10.07.2016	77	Satisfactory	PM10
				13.07.2016	72	Satisfactory	PM10
				16.07.2016	77	Satisfactory	PM10
				19.07.2016	74	Satisfactory	PM10
				22.07.2016	62	Satisfactory	PM10
				25.07.2016	72	Satisfactory	PM10
				9	SAMKRG Pistons Quarters Building, Near IDA, Pydibhimavaram, srikakulam (dt)	SRIKAKULAM	Andhra Pradesh
04.07.2016	58	Satisfactory	PM10				
07.07.2016	52	Satisfactory	PM10				
10.07.2016	71	Satisfactory	PM10				
13.07.2016	62	Satisfactory	PM10				
16.07.2016	46	Good	PM10				
19.07.2016	41	Good	PM10				
22.07.2016	53	Satisfactory	PM10				
25.07.2016	78	Satisfactory	PM10				
10	APIIC Building at IDA Bobbili Growth Center, Vizianagaram	VIZIANAGARAM	Andhra Pradesh	04.07.2016	71	Satisfactory	PM10
				13.07.2016	73	Satisfactory	PM10
				16.07.2016	76	Satisfactory	PM10
				19.07.2016	96	Satisfactory	PM10
				22.07.2016	85	Satisfactory	PM10
				25.07.2016	72	Satisfactory	PM10
11	Roof of the Office Building Ramanayyapeta	Kakinada	Andhra Pradesh	05.07.2016	65	Satisfactory	PM10
				08.07.2016	66	Satisfactory	PM10
				11.07.2016	64	Satisfactory	PM10
				14.07.2016	59	Satisfactory	PM10
				20.07.2016	65	Satisfactory	PM10
				26.07.2016	51	Satisfactory	PM10
12	on the terrace of staff club,	Rajahmundry	Andhra Pradesh	02.07.2016	62	Satisfactory	PM10
				05.07.2016	67	Satisfactory	PM10
				08.07.2016	65	Satisfactory	PM10
				11.07.2016	70	Satisfactory	PM10
				14.07.2016	65	Satisfactory	PM10
				20.07.2016	62	Satisfactory	PM10
				26.07.2016	47	Good	PM10
				28.07.2016	63	Satisfactory	PM10
13	Benz Circle	Vijayawada	Andhra Pradesh	07-02-2016	92	Satisfactory	PM10
				07-05-2016	59	Satisfactory	PM10
				07-08-2016	79	Satisfactory	PM10
				07-11-2016	74	Satisfactory	PM10
				07-14-2016	67	Satisfactory	PM10
				07-20-2016	72	Satisfactory	PM10
				07-23-2016	71	Satisfactory	PM10
				07-26-2016	81	Satisfactory	PM10
				07-28-2016	92	Satisfactory	PM10
14	Auto Nagar	Vijayawada	Andhra Pradesh	07-02-2016	97	Satisfactory	PM10
				07-05-2016	106	Moderate	PM10
				07-08-2016	79	Satisfactory	PM10
				07-11-2016	70	Satisfactory	PM10
				07-14-2016	69	Satisfactory	PM10
				07-20-2016	72	Satisfactory	PM10
				07-23-2016	85	Satisfactory	PM10
				07-26-2016	70	Satisfactory	PM10
07-28-2016	59	Satisfactory	PM10				
15	Police control Room	Vijayawada	Andhra Pradesh	07-02-2016	79	Satisfactory	PM10
				07-05-2016	85	Satisfactory	PM10
				07-08-2016	81	Satisfactory	PM10
				07-11-2016	78	Satisfactory	PM10
				07-14-2016	61	Satisfactory	PM10
				07-20-2016	105	Moderate	PM10
				07-23-2016	110	Moderate	PM10
				07-26-2016	83	Satisfactory	PM10

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
16	Municipal Travellers Bungalow	Guntur	Andhra Pradesh	07-28-2016	81	Satisfactory	PM10
				07-02-2016	93	Satisfactory	PM10
				07-05-2016	95	Satisfactory	PM10
				07-08-2016	92	Satisfactory	PM10
				07-11-2016	91	Satisfactory	PM10
				07-14-2016	94	Satisfactory	PM10
				07-20-2016	90	Satisfactory	PM10
				07-23-2016	82	Satisfactory	PM10
				07-26-2016	86	Satisfactory	PM10
17	Terrace of Regional Office, Nellore	Nellore	Andhra Pradesh	07-02-2016	62	Satisfactory	PM10
				07-05-2016	65	Satisfactory	PM10
				07-08-2016	65	Satisfactory	PM10
				07-11-2016	65	Satisfactory	PM10
				07-14-2016	67	Satisfactory	PM10
				07-20-2016	66	Satisfactory	PM10
				07-23-2016	69	Satisfactory	PM10
				07-26-2016	64	Satisfactory	PM10
				07-28-2016	67	Satisfactory	PM10
18	Near Court Center, Ongole	Prakasam	Andhra Pradesh	07-02-2016	64	Satisfactory	PM10
				07-05-2016	61	Satisfactory	PM10
				07-08-2016	64	Satisfactory	PM10
				07-11-2016	64	Satisfactory	PM10
				07-14-2016	64	Satisfactory	PM10
				07-20-2016	64	Satisfactory	PM10
				07-23-2016	64	Satisfactory	PM10
				07-26-2016	65	Satisfactory	PM10
19	Asram Diagnostics Centre, Eluru.	Eluru	Andhra Pradesh	07-02-2016	59	Satisfactory	PM10
				07-05-2016	57	Satisfactory	PM10
				07-08-2016	61	Satisfactory	PM10
				07-11-2016	63	Satisfactory	PM10
				07-14-2016	64	Satisfactory	PM10
				07-20-2016	64	Satisfactory	PM10
				07-23-2016	63	Satisfactory	PM10
				07-26-2016	61	Satisfactory	PM10
20	Krishna Nagar	Kurnool	Andhra Pradesh	02.07.2016	49	Good	PM10
				05.07.2016	49	Good	PM10
				08.07.2016	54	Satisfactory	PM10
				11.07.2016	45	Good	PM10
				14.07.2016	54	Satisfactory	PM10
				20.07.2016	42	Good	PM10
				23.07.2016	41	Good	PM10
				26.07.2016	59	Satisfactory	PM10
				28.07.2016	33	Good	PM10
21	Kamala Nagar	Ananthapur	Andhra Pradesh	02.07.2016	63	Satisfactory	PM10
				05.07.2016	33	Good	PM10
				08.07.2016	95	Satisfactory	PM10
				11.07.2016	72	Satisfactory	PM10
				14.07.2016	61	Satisfactory	PM10
				20.07.2016	40	Good	PM10
				23.07.2016	55	Satisfactory	PM10
				26.07.2016	77	Satisfactory	PM10
				28.07.2016	65	Satisfactory	PM10
22	Regional Science center	Chittoor	Andhra Pradesh	02.07.2016	57	Satisfactory	PM10
				05.07.2016	64	Satisfactory	PM10
				08.07.2016	45	Good	PM10
				11.07.2016	56	Satisfactory	PM10
				14.07.2016	54	Satisfactory	PM10
				20.07.2016	44	Good	PM10
				23.07.2016	55	Satisfactory	PM10
				26.07.2016	49	Good	PM10
24	Chittoor	Chittoor	Andhra Pradesh	02.07.2016	57	Satisfactory	PM10
				05.07.2016	54	Satisfactory	PM10

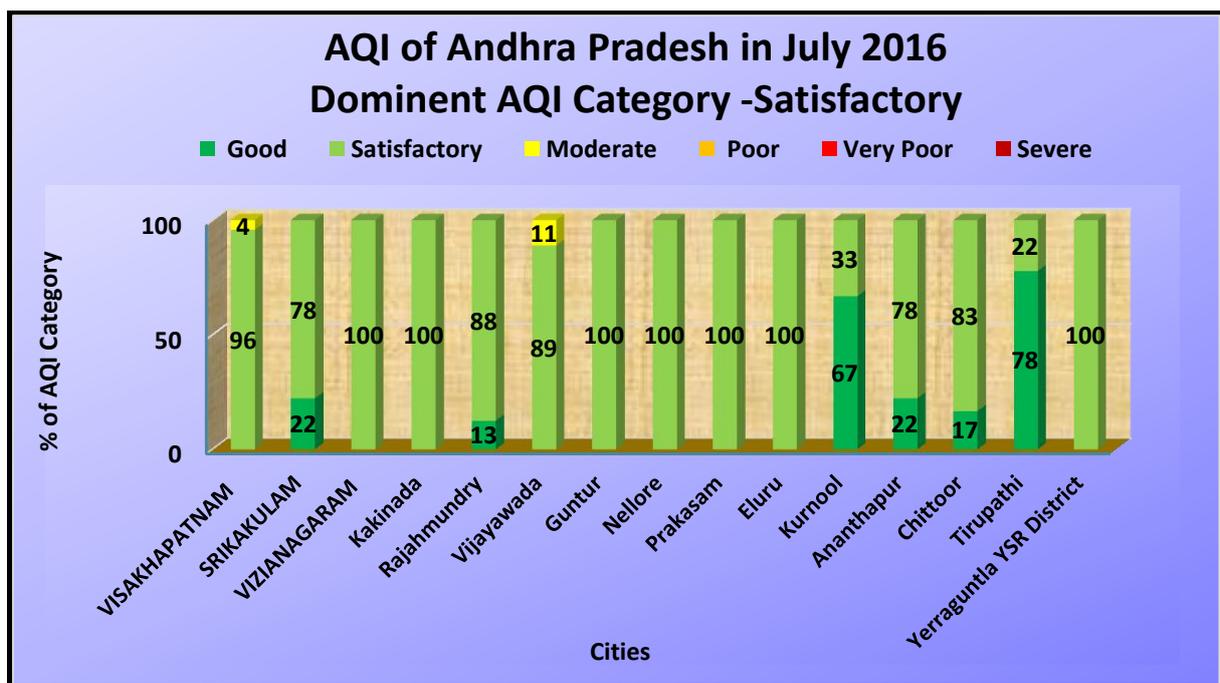
Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
				08.07.2016	61	Satisfactory	PM10
				11.07.2016	63	Satisfactory	PM10
				14.07.2016	57	Satisfactory	PM10
				20.07.2016	67	Satisfactory	PM10
				23.07.2016	54	Satisfactory	PM10
				26.07.2016	59	Satisfactory	PM10
				28.07.2016	57	Satisfactory	PM10
23	Tirumala - GNC Area	Tirupathi	Andhra Pradesh	02.07.2016	64	Satisfactory	PM10
				05.07.2016	25	Good	NO2
				08.07.2016	58	Satisfactory	PM10
				11.07.2016	41	Good	PM10
				14.07.2016	40	Good	PM10
				20.07.2016	36	Good	PM10
				23.07.2016	36	Good	PM10
				26.07.2016	36	Good	PM10
28.07.2016	34	Good	PM10				
25	Yerraguntla	Yerraguntla YSR District	Andhra Pradesh	02.07.2016	55	Satisfactory	PM10
				05.07.2016	58	Satisfactory	PM10
				08.07.2016	56	Satisfactory	PM10
				11.07.2016	59	Satisfactory	PM10
				14.07.2016	67	Satisfactory	PM10
				20.07.2016	56	Satisfactory	PM10
				23.07.2016	65	Satisfactory	PM10
				26.07.2016	59	Satisfactory	PM10
28.07.2016	65	Satisfactory	PM10				

No of cities : 15

No of locations : 25

Total no of observations : 216

The analysis of AQI values in Andhra Pradesh during July 2016 indicates that 10% AQI values are falling in good category 88% are in satisfactory, 3% are in moderate category. This indicates that the people in these areas have Minor breathing discomfort to sensitive people.

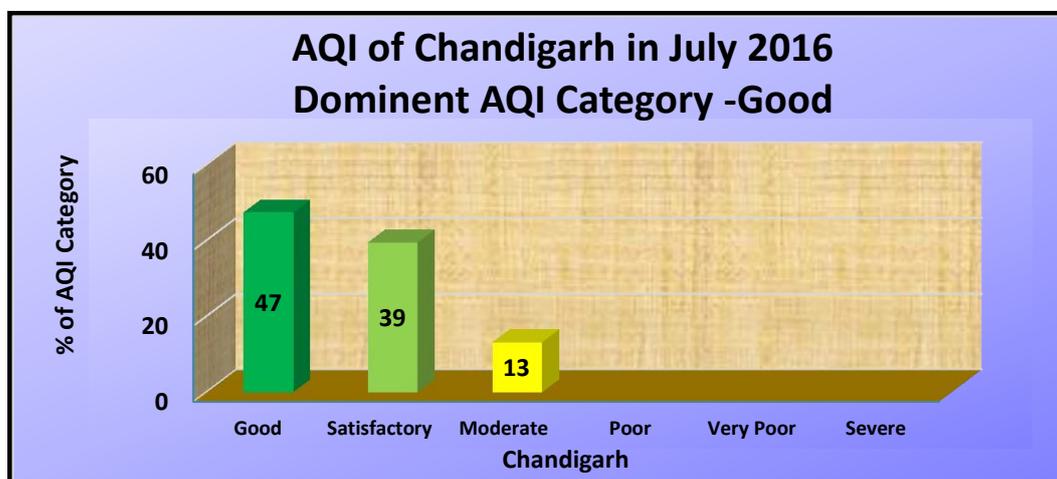


Status of AQI: Chandigarh
City covered: Chandigarh during July 2016

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
1	Sector 17	Chandigarh	Chandigarh	02.07.16	34	Good	PM10
				05.07.16	106	Moderate	PM10
				07.07.16	121	Moderate	PM10
				09.07.16	75	Satisfactory	PM10
				12.07.16	26	Good	PM10
				14.07.16	47	Good	PM10
				16.07.16	42	Good	PM10
				19.07.16	61	Satisfactory	PM10
				21.07.16	64	Satisfactory	PM10
				23.07.16	28	Good	PM10
				26.07.16	75	Satisfactory	PM10
				28.07.16	30	Good	PM10
30.07.16	20	Good	PM10				
2	IMTECH	Chandigarh	Chandigarh	02.07.16	36	Good	PM10
				05.07.16	64	Satisfactory	PM10
				07.07.16	109	Moderate	PM10
				09.07.16	71	Satisfactory	PM10
				12.07.16	33	Good	PM10
				14.07.16	44	Good	PM10
				16.07.16	32	Good	PM10
				19.07.16	90	Satisfactory	PM10
				21.07.16	73	Satisfactory	PM10
				23.07.16	59	Satisfactory	PM10
				26.07.16	81	Satisfactory	PM10
				28.07.16	43	Good	PM10
3	Village Kaimbwala	Chandigarh	Chandigarh	02.07.16	28	Good	PM10
				05.07.16	64	Satisfactory	PM10
				07.07.16	111	Moderate	PM10
				09.07.16	107	Moderate	PM10
				12.07.16	73	Satisfactory	PM10
				14.07.16	47	Good	PM10
				16.07.16	45	Good	PM10
				19.07.16	66	Satisfactory	PM10
				21.07.16	75	Satisfactory	PM10
				23.07.16	36	Good	PM10
				26.07.16	77	Satisfactory	PM10
				28.07.16	48	Good	PM10
30.07.16	33	Good	PM10				

No of cities : 1
 No of locations : 3
 Total no of observations : 38

The analysis of AQI values in Chandigarh during July 2016 indicates that 47% AQI values are falling in good category 39% are in satisfactory, 13% are in moderate category. This indicates that the people in these areas have Minimal impact on air Pollution.

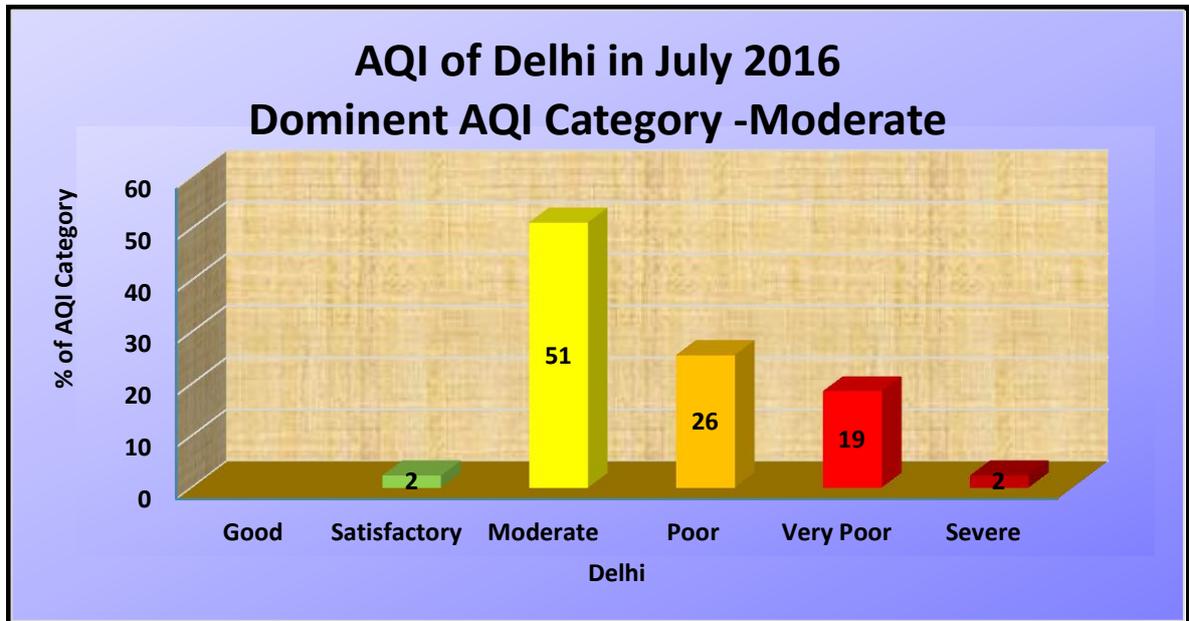


Status of AQI: Delhi
City covered: Delhi during July 2016

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
1	Pitampura	Delhi	Delhi	06.07.2016	176	Moderate	PM10
				10.07.2016	372	Very-Poor	PM10
				13.07.2016	149	Moderate	PM10
				19.07.2016	456	Sever	PM10
				22.07.2016	209	Poor	PM10
				25.07.2016	146	Moderate	PM10
				28.07.2016	66	Satisfactory	PM10
2	Sirifort	Delhi	Delhi	01.07.2016	309	Very-Poor	PM10
				04.07.2016	275	Poor	PM10
				08.07.2016	161	Moderate	PM10
				11.07.2016	335	Very-Poor	PM2.5
				20.07.2016	322	Very-Poor	PM2.5
				26.07.2016	182	Moderate	PM10
3	Janakpuri	Delhi	Delhi	02.07.2016	193	Moderate	PM2.5
				05.07.2016	169	Moderate	PM10
				12.07.2016	139	Moderate	PM10
				15.07.2016	309	Very-Poor	PM2.5
				18.07.2016	140	Moderate	PM2.5
				21.07.2016	297	Poor	PM2.5
				24.07.2016	160	Moderate	PM2.5
				27.07.2016	147	Moderate	PM2.5
4	Nizamuddin	Delhi	Delhi	06.07.2016	157	Moderate	PM10
				10.07.2016	217	Poor	PM2.5
				13.07.2016	263	Poor	PM2.5
				19.07.2016	157	Moderate	PM2.5
				22.07.2016	317	Very-Poor	PM2.5
				25.07.2016	167	Moderate	PM2.5
				28.07.2016	203	Poor	PM10
5	Shahzada Bagh	Delhi	Delhi	01.07.2016	168	Moderate	PM10
				04.07.2016	126	Moderate	PM10
				08.07.2016	203	Poor	PM2.5
				11.07.2016	179	Moderate	PM10
				14.07.2016	140	Moderate	PM10
				20.07.2016	214	Poor	PM10
				26.07.2016	172	Moderate	PM10
6	Shahdara	Delhi	Delhi	02.07.2016	223	Poor	PM10
				05.07.2016	174	Moderate	PM10
				12.07.2016	386	Very-Poor	PM10
				15.07.2016	197	Moderate	PM10
				18.07.2016	142	Moderate	PM10
				21.07.2016	304	Very-Poor	PM10
				24.07.2016	205	Poor	PM10
				27.07.2016	247	Poor	PM2.5

No of cities : 1
No of locations : 6
Total no of observations : 43

The analysis of AQI values in Delhi during July 2016 indicates that 2% AQI values are falling in Satisfactory category, 51% are in moderate, 26% are in poor category, 19% are in very-poor category, 2% are in severe category. This indicates that the people in these areas have Breathing discomfort to the people with lungs, asthma and heart diseases.



Status of AQI: Himachal Pradesh
City covered: Manali during July 2016

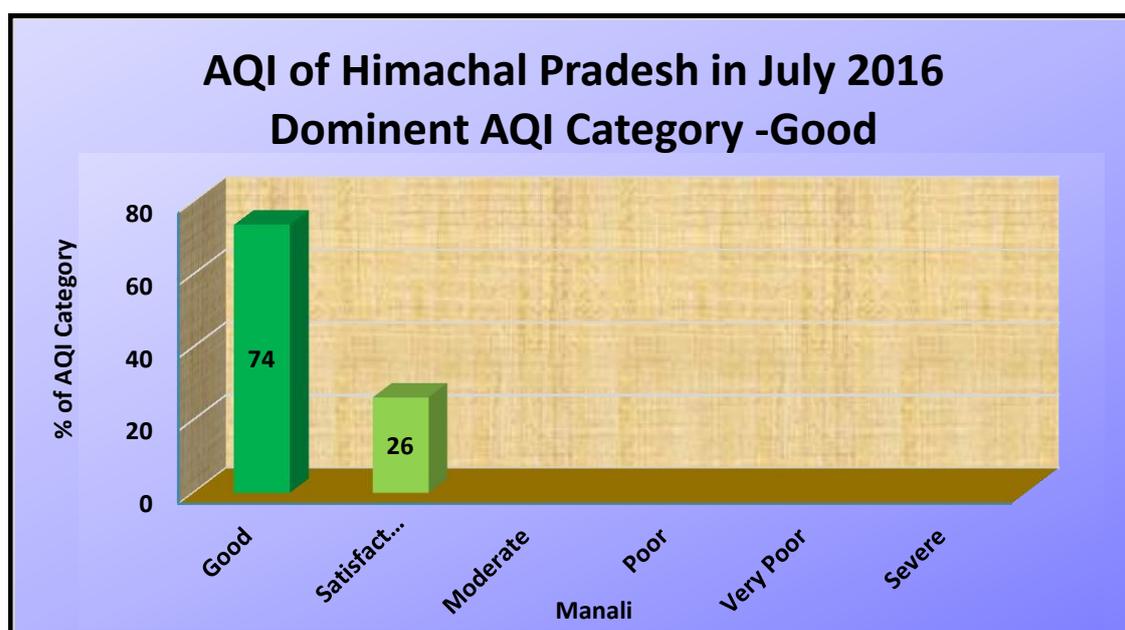
Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
1	Station No.-1, Nehru Park, Manali	Manali	Himachal Pradesh	07-01-2016	69	Satisfactory	PM10
				07-04-2016	51	Satisfactory	PM10
				07-06-2016	26	Good	PM10
				07-08-2016	48	Good	PM10
				07-11-2016	55	Satisfactory	PM10
				07-13-2016	39	Good	PM10
				07-18-2016	35	Good	PM10
				07-20-2016	45	Good	PM10
				07-22-2016	59	Satisfactory	PM10
2	Station No.-II, Hadimba Road, Manali	Manali	Himachal Pradesh	07-05-2016	25	Good	PM10
				07-14-2016	15	Good	PM10
				07-16-2016	33	Good	PM10
				07-19-2016	19	Good	PM10
				07-21-2016	38	Good	PM10
				07-23-2016	18	Good	PM10
				07-26-2016	45	Good	PM10
				07-28-2016	31	Good	PM10
07-30-2016	12	Good	PM10				

No of cities : 1

No of locations : 2

Total no of observations : 19

The analysis of AQI values in Himachal Pradesh during July 2016 indicates that 74% AQI values are falling in good category 26% are in satisfactory category. This indicates that the people in these areas have Minimal impact.



Status of AQI: Karnataka State
Cities covered: Hubli/Dharwar, Davangere,
Bhadravathi and Chitradurga during July 2016

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
1	Gokul Road opp. New Bus-Stand Hubli	Hubli/Dharwad	Karnataka	04.07.2016	83	Satisfactory	PM10
				07.07.2016	77	Satisfactory	PM10
				11.07.2016	77	Satisfactory	PM10
				14.07.2016	83	Satisfactory	PM10
				18.07.2016	81	Satisfactory	PM10
				21.07.2016	80	Satisfactory	PM10
				25.07.2016	71	Satisfactory	PM10
				28.07.2016	81	Satisfactory	PM10
2	Lakkamanahalli Ind. Area.	Hubli/Dharwad	Karnataka	05.07.2016	70	Satisfactory	PM10
				07.07.2016	75	Satisfactory	PM10
				12.07.2016	74	Satisfactory	PM10
				14.07.2016	70	Satisfactory	PM10
				19.07.2016	71	Satisfactory	PM10
				21.07.2016	75	Satisfactory	PM10
				26.07.2016	61	Satisfactory	PM10
				28.07.2016	68	Satisfactory	PM10
3	Regional Office building KSPCB	Davangere	Karnataka	04.07.2016	17	Good	PM10
				06.07.2016	44	Good	PM10
				11.07.2016	34	Good	PM10
				15.07.2016	45	Good	PM10
				18.07.2016	23	Good	PM10
				21.07.2016	18	Good	PM10
				26.07.2016	19	Good	PM10
				28.07.2016	30	Good	PM10
4	Mothi Thratre, Gandhi Circle	Davangere	Karnataka	01.07.2016	66	Satisfactory	PM10
				05.07.2016	62	Satisfactory	PM10
				08.07.2016	68	Satisfactory	PM10
				12.07.2016	55	Satisfactory	PM10
				15.07.2016	67	Satisfactory	PM10
				19.07.2016	170	Moderate	PM10
				22.07.2016	105	Moderate	PM10
				26.07.2016	76	Satisfactory	PM10
30.07.2016	38	Good	PM10				
5	HPF Intakewell	Davangere	Karnataka	05.07.2016	37	Good	PM10
				08.07.2016	56	Satisfactory	PM10
				13.07.2016	34	Good	PM10
				15.07.2016	35	Good	PM10
				19.07.2016	55	Satisfactory	PM10
				22.07.2016	45	Good	PM10
				26.07.2016	26	Good	PM10
				29.07.2016	25	Good	PM10
6	VISL Ltd.	Bhadravathi	Karnataka	04.07.2016	13	Good	PM10
				07.07.2016	18	Good	PM10
				11.07.2016	31	Good	PM10

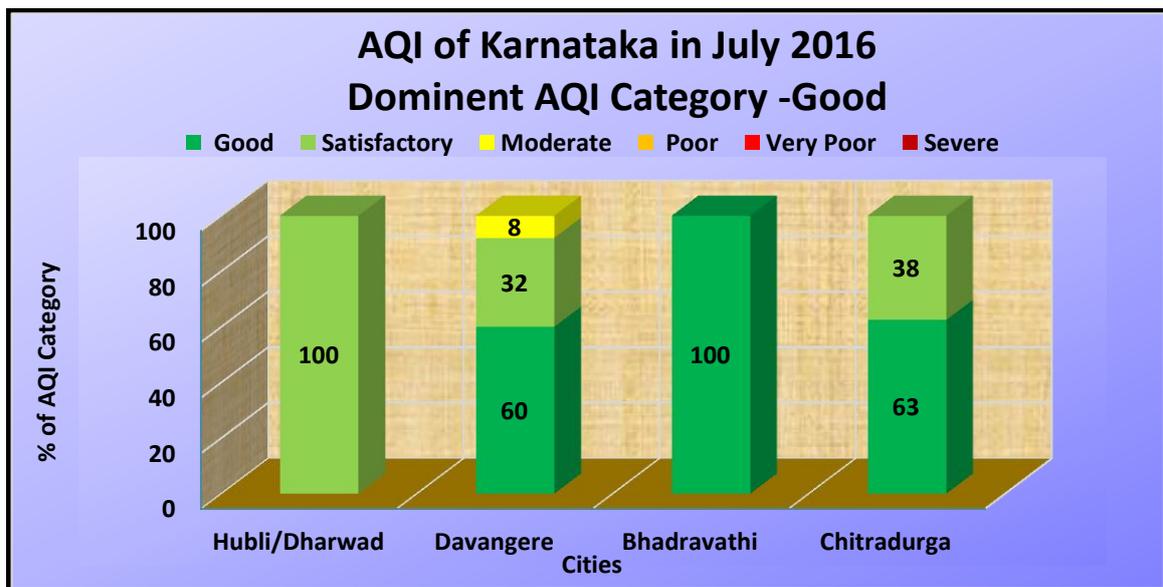
Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
				14.07.2016	28	Good	PM10
				18.07.2016	18	Good	PM10
				21.07.2016	19	Good	PM10
				25.07.2016	27	Good	PM10
				28.07.2016	14	Good	PM10
7	Regional Office building KSPCB	Chitradurga	Karnataka	04.07.2016	30	Good	PM10
				08.07.2016	59	Satisfactory	PM10
				11.07.2016	49	Good	PM10
				14.07.2016	60	Satisfactory	PM10
				18.07.2016	32	Good	PM10
				21.07.2016	15	Good	PM10
				26.07.2016	18	Good	PM10
				28.07.2016	73	Satisfactory	PM10

No of cities : 4

No of locations : 7

Total no of observations : 57

The analysis of AQI values in Karnataka during July 2016 indicates that 49% AQI values are falling in good category 47% are in satisfactory and 4% are in moderate category. This indicates that the people in these areas have Minimal impact.



Status of AQI: Madhya Pradesh
Cities covered: Bhopal, Jabalpur, Dewas,
Gwalior, Nagda, Ujjain and Singrauli during July 2016

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
1	Regional office M.P.Pollution Control Board	Ujjain	Madhya Pradesh	07-04-2016	55	Satisfactory	PM10
				07-14-2016	67	Satisfactory	PM10
				07-18-2016	51	Satisfactory	PM10
				07-21-2016	60	Satisfactory	PM10
				07-25-2016	68	Satisfactory	PM10
				07-28-2016	77	Satisfactory	PM10
2	District Industrial office	Ujjain	Madhya Pradesh	07-01-2016	112	Moderate	PM10
				07-05-2016	99	Satisfactory	PM10
				07-08-2016	75	Satisfactory	PM10
				07-15-2016	91	Satisfactory	PM10
				07-19-2016	89	Satisfactory	PM10
				07-22-2016	95	Satisfactory	PM10
3	Mahakal Temple	Ujjain	Madhya Pradesh	07-06-2016	56	Satisfactory	PM10
				07-16-2016	61	Satisfactory	PM10
				07-20-2016	58	Satisfactory	PM10
				07-30-2016	65	Satisfactory	PM10
4	Chemical Division Labour Club Nagda	Nagda	Madhya Pradesh	07-04-2016	53	Satisfactory	PM10
				07-07-2016	51	Satisfactory	PM10
				07-14-2016	52	Satisfactory	PM10
				07-18-2016	46	Good	PM10
				07-21-2016	51	Satisfactory	PM10
				07-25-2016	49	Good	PM10
5	Grasim Guest House No.2 Nagda	Nagda	Madhya Pradesh	07-02-2016	56	Satisfactory	PM10
				07-06-2016	54	Satisfactory	PM10
				07-13-2016	56	Satisfactory	PM10
				07-16-2016	44	Good	PM10
				07-20-2016	48	Good	PM10
				07-23-2016	50	Good	PM10
				07-30-2016	39	Good	PM10
6	Grasim Kalyan Kendra Nagda	Nagda	Madhya Pradesh	07-01-2016	50	Good	PM10
				07-05-2016	59	Satisfactory	PM10
				07-08-2016	59	Satisfactory	PM10
				07-12-2016	32	Good	PM10
				07-15-2016	47	Good	PM10
				07-19-2016	53	Satisfactory	PM10
				07-22-2016	56	Satisfactory	PM10
				07-26-2016	46	Good	PM10
				07-29-2016	49	Good	PM10
7	Vindhya Nager	singrauli	Madhya Pradesh	07-11-2016	72	Satisfactory	PM10
				07-14-2016	64	Satisfactory	PM10
				07-18-2016	77	Satisfactory	PM10
				07-21-2016	59	Satisfactory	PM10
				07-25-2016	77	Satisfactory	PM10
				07-28-2016	71	Satisfactory	PM10
8	Jayant	singrauli	Madhya Pradesh	07-01-2016	96	Satisfactory	PM10
				07-08-2016	63	Satisfactory	PM2.5
				07-15-2016	78	Satisfactory	PM10
				07-19-2016	71	Satisfactory	PM10
9	Waidhan	singrauli	Madhya Pradesh	07-02-2016	97	Satisfactory	PM10
				07-13-2016	69	Satisfactory	PM10
				07-16-2016	67	Satisfactory	PM10
				07-20-2016	69	Satisfactory	PM10
				07-23-2016	87	Satisfactory	PM10

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
				07-27-2016	69	Satisfactory	PM10
10	Town hall maharaja bada	Gwalior	Madhya Pradesh	04-07-2016	78	Satisfactory	PM10
				07-11-2016	90	Satisfactory	PM10
				07-12-2016	80	Satisfactory	PM10
				07-18-2016	79	Satisfactory	PM10
				07-19-2016	82	Satisfactory	PM10
				07-25-2016	84	Satisfactory	PM10
11	D.D. Nagar,	Gwalior	Madhya Pradesh	07-13-2016	74	Satisfactory	PM10
				07-14-2016	83	Satisfactory	PM10
				07-20-2016	79	Satisfactory	PM10
				07-21-2016	70	Satisfactory	PM10
				07-27-2016	75	Satisfactory	PM10
12	Industrial Area Richhai Jabalpur	Jabalpur	Madhya Pradesh	19/07/2016	79	Satisfactory	PM10
				21/07/2016	81	Satisfactory	PM10
				26/07/2016	86	Satisfactory	PM10
				28/07/2016	88	Satisfactory	PM10
13	Plot No. 455/456,Vijay Nagar, Jabalpur	Jabalpur	Madhya Pradesh	18/07/2016	50	Good	PM2.5
				20/07/2016	53	Satisfactory	PM2.5
				25/07/2016	55	Satisfactory	PM2.5
				27/07/2016	58	Satisfactory	PM2.5
14	M/s EID Parry (Parry Ware Roca) Pvt. Limited ,Dewas	Dewas	Madhya Pradesh	07-04-2016	94	Satisfactory	PM10
				07-07-2016	93	Satisfactory	PM10
				07-14-2016	91	Satisfactory	PM10
				07-18-2016	93	Satisfactory	PM10
				07-21-2016	94	Satisfactory	PM10
				07-25-2016	96	Satisfactory	PM10
15	M/s Gajra gear ltd. Station road, Dewas M.P.	Dewas	Madhya Pradesh	07-02-2016	91	Satisfactory	PM10
				07-06-2016	89	Satisfactory	PM10
				07-13-2016	72	Satisfactory	PM10
				07-16-2016	95	Satisfactory	PM10
				07-20-2016	93	Satisfactory	PM10
				07-23-2016	91	Satisfactory	PM10
				07-27-2016	91	Satisfactory	PM10
				07-30-2016	92	Satisfactory	PM10
16	RO,MPPCB, Dewas M.P.	Dewas	Madhya Pradesh	07-01-2016	80	Satisfactory	PM10
				07-05-2016	84	Satisfactory	PM10
				07-15-2016	94	Satisfactory	PM10
				07-19-2016	91	Satisfactory	PM10
				07-22-2016	95	Satisfactory	PM10
				07-29-2016	93	Satisfactory	PM10
17	C.E.T.P Govindpura Bhopal	Bhopal	Madhya Pradesh	04.07.2016	64	Satisfactory	PM10
				25.07.2016	67	Satisfactory	PM10
				30.07.2016	59	Satisfactory	PM10
18	Mrignayani Hamidia Road, Bhopal	Bhopal	Madhya Pradesh	05.07.2016	56	Satisfactory	PM10
				14.07.2016	71	Satisfactory	PM10
				19.07.2016	72	Satisfactory	PM10
19	Pparvavarn Parisar, E-5 Arera Colony, Bhopal	Bhopal	Madhya Pradesh	01.07.2016	44	Good	PM10
				15.07.2016	44	Good	PM10
				20.07.2016	38	Good	PM10
				22.07.2016	40	Good	PM10
20	Kolar Thana, Kolar Road, Bhopal	Bhopal	Madhya Pradesh	01.07.2016	78	Satisfactory	PM10
				05.07.2016	57	Satisfactory	PM2.5
				15.07.2016	78	Satisfactory	PM10
				19.07.2016	70	Satisfactory	PM10
				22.07.2016	79	Satisfactory	PM10
21	AKVN Office, Industrial Area Mandideep Raisen.	Bhopal	Madhya Pradesh	04.07.2016	72	Satisfactory	PM10
				14.07.2016	78	Satisfactory	PM10
				18.07.2016	80	Satisfactory	PM10

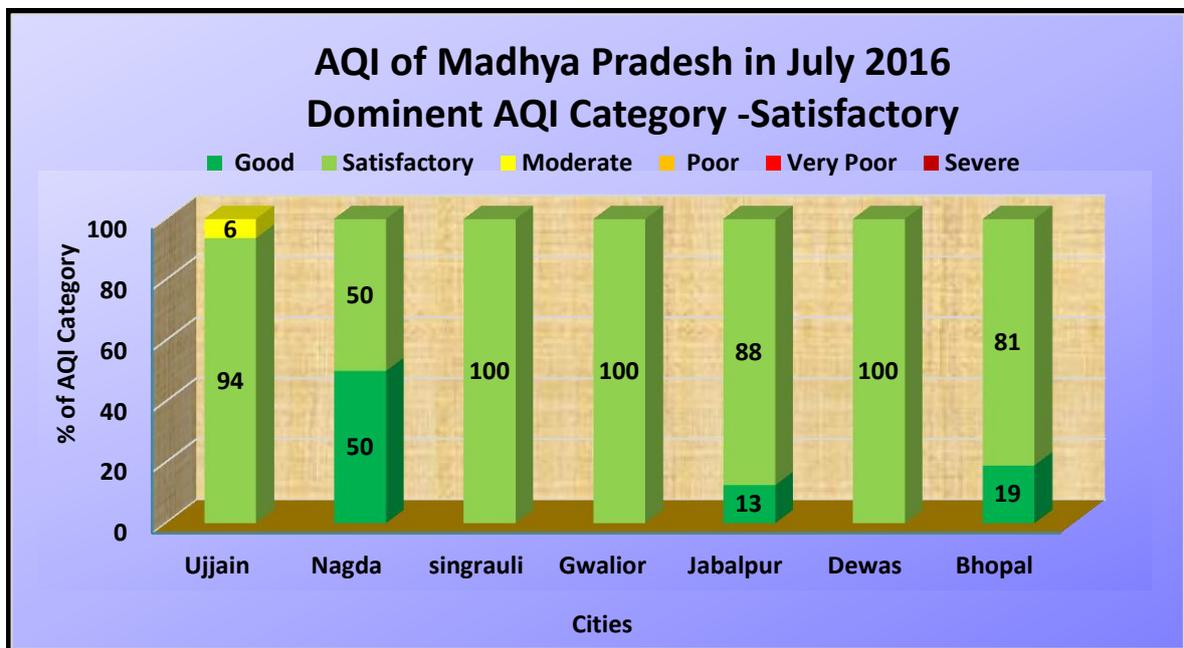
Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
				21.07.2016	79	Satisfactory	PM10
				25.07.2016	66	Satisfactory	PM10
22	Civil Hospital, Bairagrah. Bhopal	Bhopal	Madhya Pradesh	20.07.2016	83	Satisfactory	PM10

No of cities : 7

No of locations : 22

Total no of observations : 115

The analysis of AQI values in Madhya Pradesh during July 2016 indicates that 14% AQI values are falling in good category 85% are in satisfactory and 1%are in moderate category. This indicates that the people in these areas have Minor breathing discomfort to sensitive people.



Status of AQI: Mizoram

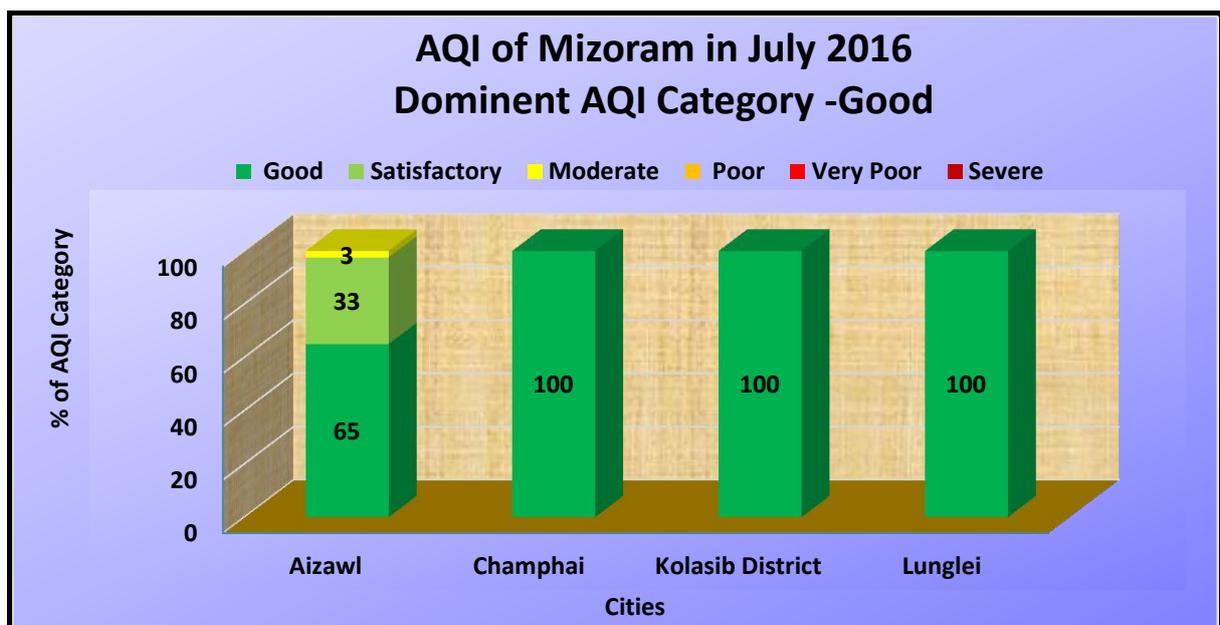
Cities covered: Aizawl, Champhai, Kolasib and Lunglei during July 2016

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
1	Khatla	Aizawl	Mizoram	07-05-2016	31	Good	PM10
				07-07-2016	57	Satisfactory	PM10
				07-12-2016	49	Good	PM10
				07-14-2016	57	Satisfactory	PM10
				07-19-2016	57	Satisfactory	PM10
				07-21-2016	54	Satisfactory	PM10
				07-26-2016	45	Good	PM10
2	Laipuitlang	Aizawl	Mizoram	07-05-2016	29	Good	PM10
				07-07-2016	23	Good	PM10
				07-12-2016	23	Good	PM10
				07-14-2016	26	Good	PM10
				07-19-2016	25	Good	PM10
				07-21-2016	25	Good	PM10
				07-26-2016	25	Good	PM10
3	Bawngkawn	Aizawl	Mizoram	07-05-2016	54	Satisfactory	PM10
				07-07-2016	35	Good	PM10
				07-12-2016	49	Good	PM10
				07-14-2016	82	Satisfactory	PM10
				07-19-2016	50	Good	PM10
				07-21-2016	38	Good	PM10
				07-26-2016	49	Good	PM10
10	Dawrpui Veng	Aizawl	Mizoram	07-05-2016	65	Satisfactory	PM10
				07-07-2016	66	Satisfactory	PM10
				07-12-2016	70	Satisfactory	PM10
				07-14-2016	75	Satisfactory	PM10
				07-19-2016	72	Satisfactory	PM10
				07-21-2016	47	Good	PM10
				07-26-2016	79	Satisfactory	PM10
11	Lengpui	Aizawl	Mizoram	07-05-2016	15	Good	PM10
				07-07-2016	22	Good	PM10
				07-12-2016	32	Good	PM10
				07-14-2016	21	Good	PM10
				07-19-2016	24	Good	PM10
				07-21-2016	27	Good	PM10
				07-26-2016	30	Good	PM10
4	Kahrawt veng	Champhai	Mizoram	07-05-2016	15	Good	PM10
				07-07-2016	13	Good	PM10
				07-12-2016	13	Good	PM10
				07-14-2016	12	Good	PM10
				07-19-2016	11	Good	PM10
				07-21-2016	10	Good	PM10
				07-26-2016	14	Good	PM10
5	Vengthlang	Champhai	Mizoram	07-05-2016	24	Good	PM10
				07-07-2016	19	Good	PM10
				07-19-2016	26	Good	PM10
				07-21-2016	22	Good	PM10
				07-26-2016	26	Good	PM10
				07-28-2016	24	Good	PM10
6	Project Veng	Kolasib District	Mizoram	07-05-2016	22	Good	PM10
				07-07-2016	19	Good	PM10
				07-12-2016	21	Good	PM10
				07-14-2016	21	Good	PM10
				07-19-2016	17	Good	PM10
				07-21-2016	18	Good	PM10
				07-26-2016	16	Good	PM10

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
7	Diakkawn	Kolasib District	Mizoram	07-28-2016	17	Good	PM10
				07-05-2016	39	Good	PM10
				07-07-2016	38	Good	PM10
				07-12-2016	38	Good	PM10
				07-14-2016	39	Good	PM10
				07-19-2016	39	Good	PM10
				07-21-2016	41	Good	PM10
				07-26-2016	38	Good	PM10
8	Farm Veng	Lunglei	Mizoram	07-05-2016	17	Good	PM10
				07-07-2016	11	Good	PM10
				07-12-2016	16	Good	PM10
				07-14-2016	19	Good	PM10
				07-19-2016	9	Good	PM10
				07-21-2016	15	Good	PM10
				07-26-2016	12	Good	PM10
9	Chanmari I	Lunglei	Mizoram	07-05-2016	7	Good	PM10
				07-07-2016	14	Good	PM10
				07-12-2016	23	Good	PM10
				07-14-2016	19	Good	PM10
				07-19-2016	23	Good	PM10
				07-21-2016	14	Good	PM10
				07-26-2016	31	Good	PM10
				07-28-2016	15	Good	PM10

No of cities : 4
 No of locations : 11
 Total no of observations : 86

The analysis of AQI values in Mizoram during July 2016 indicates that 85% AQI values are falling in good category 15% are in satisfactory, 1%are in moderate category. This indicates that the people in these areas have Minimal Impact.



Status of AQI: Odisha

Cities covered: Rayagada, Bhubaneswar, Puri, Konark and Cuttack during July 2016

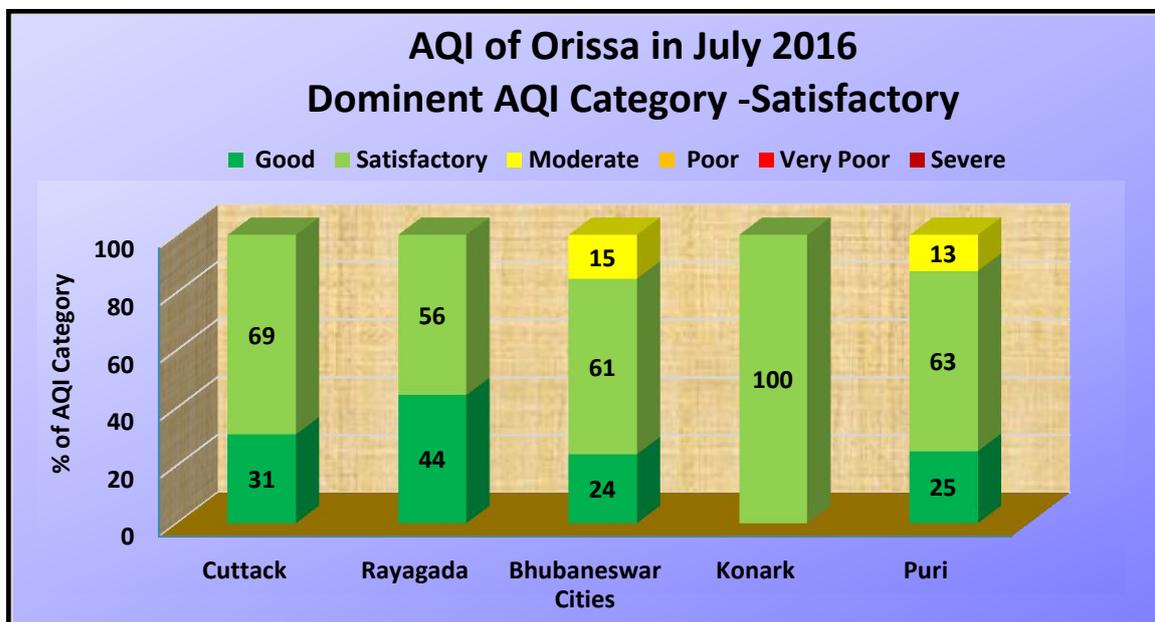
Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
1	Badambadi	Cuttack	Orissa	04.07.16	62	Satisfactory	PM10
				07.07.16	65	Satisfactory	PM10
				12.07.16	67	Satisfactory	PM10
				14.07.16	57	Satisfactory	PM2.5
				19.07.16	67	Satisfactory	PM2.5
				21.07.16	73	Satisfactory	PM2.5
				26.07.16	49	Good	PM10
				28.07.16	67	Satisfactory	PM10
2	R.O.Cuttack	Cuttack	Orissa	01.07.16	63	Satisfactory	PM2.5
				05.07.16	65	Satisfactory	PM10
				08.07.16	58	Satisfactory	PM10
				12.07.16	50	Good	PM10
				14.07.16	46	Good	PM10
				19.07.16	45	Good	PM10
				21.07.16	44	Good	PM10
				26.07.16	44	Good	PM10
28.07.16	43	Good	PM10				
3	PHDO.Cuttack	Cuttack	Orissa	02.07.16	55	Satisfactory	PM10
				05.07.16	61	Satisfactory	PM10
				08.07.16	54	Satisfactory	PM10
				12.07.16	57	Satisfactory	PM10
				14.07.16	50	Good	PM10
				19.07.16	58	Satisfactory	PM10
				21.07.16	60	Satisfactory	PM10
				26.07.16	53	Satisfactory	PM10
28.07.16	61	Satisfactory	PM10				
4	Regional Office	Rayagada	Orissa	02-07-2016	54	Satisfactory	PM10
				04-07-2016	44	Good	PM10
				09-07-2016	48	Good	PM10
				11-07-2016	75	Satisfactory	PM10
				16/07/2016	52	Satisfactory	PM10
				18/07/2016	44	Good	PM10
				23/07/2016	48	Good	PM10
				25/07/2016	42	Good	PM10
				30/07/2016	69	Satisfactory	PM10
5	LPS H.School	Rayagada	Orissa	01-07-2016	50	Good	PM10
				05-07-2016	48	Good	PM10
				08-07-2016	52	Satisfactory	PM10
				12-07-2016	68	Satisfactory	PM10
				15/07/2016	79	Satisfactory	PM10
				19/07/2016	54	Satisfactory	PM10
				22/07/2016	45	Good	PM10
				26/07/2016	53	Satisfactory	PM2.5
29/07/2016	52	Satisfactory	PM10				
6	Office Premises,Unit-9	Bhubaneswar	Orissa	02.07.2016	45	Good	PM10
				04.07.2016	63	Satisfactory	PM10
				08.07.2016	84	Satisfactory	PM10
				12.07.2016	74	Satisfactory	PM10
				14.07.2016	66	Satisfactory	PM10

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
				23.07.2016	43	Good	PM2.5
				25.07.2016	72	Satisfactory	PM10
				27.07.2016	40	Good	PM10
7	IRC Village, Nayapalli	Bhubaneswar	Orissa	02.07.2016	38	Good	PM10
				04.07.2016	54	Satisfactory	PM10
				08.07.2016	69	Satisfactory	PM10
				12.07.2016	64	Satisfactory	PM10
				14.07.2016	47	Good	PM10
				23.07.2016	65	Satisfactory	PM10
				25.07.2016	57	Satisfactory	PM10
				27.07.2016	31	Good	PM10
				8	Capital Police Station Bhubaneswar	Bhubaneswar	Orissa
05.07.2016	84	Satisfactory	PM10				
08.07.2016	79	Satisfactory	PM10				
11.07.2016	111	Moderate	PM10				
14.07.2016	71	Satisfactory	PM10				
20.07.2016	57	Satisfactory	PM10				
23.07.2016	57	Satisfactory	PM10				
27.07.2016	65	Satisfactory	PM10				
29.07.2016	73	Satisfactory	PM10				
9	PATRAPADA	Bhubaneswar	Orissa	01.07.16	109	Moderate	PM10
				04.07.16	100	Satisfactory	PM10
				08.07.16	106	Moderate	PM10
				12.07.16	96	Satisfactory	PM10
				16.07.16	98	Satisfactory	PM10
				19.07.16	102	Moderate	PM10
				22.07.16	108	Moderate	PM10
				26.07.16	101	Moderate	PM10
				29.07.16	101	Moderate	PM10
10	Chandrasekharpur	Bhubaneswar	Orissa	02.07.16	40	Good	PM10
				04.07.16	38	Good	PM10
				12.07.16	39	Good	PM10
				14.07.16	83	Satisfactory	PM10
				20.07.16	82	Satisfactory	PM10
				29.07.16	80	Satisfactory	PM10
				11	PALASUNI	Bhubaneswar	Orissa
15.07.2016	79	Satisfactory	PM10				
19.07.2016	85	Satisfactory	PM2.5				
22.07.2016	63	Satisfactory	PM10				
26.07.2016	33	Good	PM10				
29.07.2016	35	Good	PM10				
12	Konark Police Station	Konark	Orissa	04.07.2016	51	Satisfactory	PM10
				08.07.2016	67	Satisfactory	PM10
				12.07.2016	59	Satisfactory	PM10
				15.07.2016	72	Satisfactory	PM10
				20.07.2016	66	Satisfactory	PM10
				22.07.2016	61	Satisfactory	PM10
				29.07.2016	69	Satisfactory	PM10
13	Sadar Police Station, Puri	Puri	Orissa	04.07.2016	110	Moderate	PM10
				08.07.2016	94	Satisfactory	PM10
				12.07.2016	66	Satisfactory	PM10
				15.07.2016	70	Satisfactory	PM10
				19.07.2016	80	Satisfactory	PM10

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
				21.07.2016	76	Satisfactory	PM10
				26.07.2016	37	Good	PM10
				28.07.2016	43	Good	PM10

No of cities : 5
 No of locations : 13
 Total no of observations : 105

The analysis of AQI values in Odisha during July 2016 indicates that 28% AQI values are falling in good category 65% are in satisfactory category and 8% are in moderate category. This indicates that the people in these areas have Minor breathing discomfort to sensitive people.

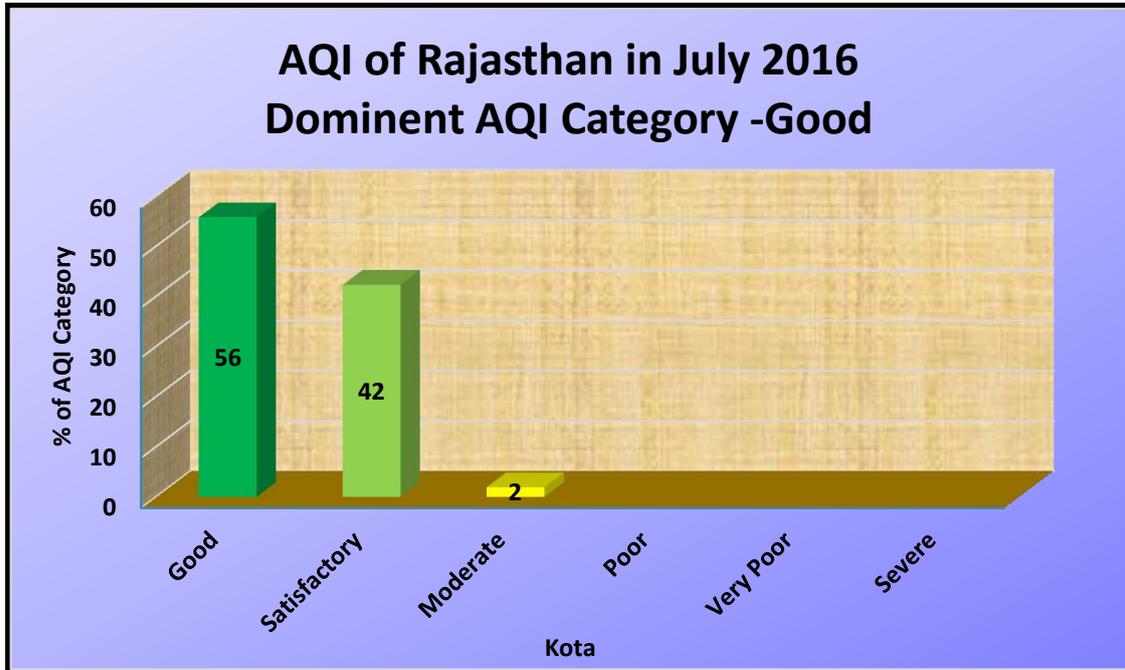


Status of AQI: Rajasthan State
City covered: Kota during July 2016

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
1	R.O.BUILDING,KOTA	KOTA	Rajasthan	04/07/2016	38	Good	NO2
				07/07/2016	79	Satisfactory	PM10
				11/07/2016	83	Satisfactory	PM10
				14/07/2016	52	Satisfactory	PM10
				18/07/2016	59	Satisfactory	PM10
				21/07/2016	58	Satisfactory	PM10
				25/07/2016	77	Satisfactory	PM10
				28/07/2016	63	Satisfactory	PM10
2	SAMCOR GLASS LTD	KOTA	Rajasthan	01/07/2016	39	Good	PM10
				05/07/2016	42	Good	NO2
				08/07/2016	116	Moderate	PM10
				12/07/2016	38	Good	PM10
				19/07/2016	44	Good	PM10
				22/07/2016	78	Satisfactory	PM10
				26/07/2016	63	Satisfactory	PM10
				29/07/2016	41	Good	NO2
3	M.C.BUILDING,KOTA	KOTA	Rajasthan	02/07/2016	40	Good	NO2
				06/07/2016	48	Good	PM10
				09/07/2016	52	Satisfactory	PM10
				13/07/2016	39	Good	NO2
				16/07/2016	93	Satisfactory	PM10
				20/07/2016	40	Good	PM10
				23/07/2016	68	Satisfactory	PM10
				27/07/2016	47	Good	PM10
4	FireStation Nagar Nigam Shrinathpuram,Kota	KOTA	Rajasthan	01/07/2016	40	Good	PM10
				02/07/2016	61	Satisfactory	PM10
				05/07/2016	38	Good	NO2
				06/07/2016	48	Good	PM10
				08/07/2016	68	Satisfactory	PM10
				09/07/2016	95	Satisfactory	PM10
				12/07/2016	98	Satisfactory	PM10
				13/07/2016	43	Good	PM10
				15/07/2016	66	Satisfactory	PM10
				16/07/2016	69	Satisfactory	PM10
				19/07/2016	29	Good	PM10
				20/07/2016	51	Satisfactory	PM10
				22/07/2016	33	Good	NO2
				23/07/2016	28	Good	PM10
				27/07/2016	46	Good	PM10
30/07/2016	48	Good	PM10				
5	Rajasthan Technical University,Rawatbhata, Road,Kota	KOTA	Rajasthan	26/07/2016	44	Good	PM10
				29/07/2016	67	Satisfactory	PM10
6	Sewage Treatment Plant,Balita,Kota(At present at M/s Shree Giriraj Private I.T.I.)	KOTA	Rajasthan	04/07/2016	59	Satisfactory	PM10
				07/07/2016	42	Good	PM10
				11/07/2016	43	Good	NO2
				14/07/2016	52	Satisfactory	PM10
				18/07/2016	31	Good	NO2
				21/07/2016	29	Good	NO2
				25/07/2016	31	Good	NO2
				28/07/2016	32	Good	PM10
30/07/2016	32	Good	PM10				

No of cities : 1
No of locations : 6
Total no of observations : 52

The analysis of AQI values in Rajasthan during July 2016 indicates that 56% AQI values are falling in Good category, 42% are in satisfactory category and 2% are in moderate category. This indicates that the people in these areas have Minimal impact.



Status of AQI: Uttar Pradesh
Cities covered: Agra, Allahabad, Firozabad, Gajroula,
Jhansi, Khurja, Moradabad and Rai Bareli during July 2016

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
1	Town Hall Colony ,Gulab Road,Ahmad Nagar	Raebareli	Uttar Pradesh	04.07.2016	102	Moderate	PM10
				11.07.2016	94	Satisfactory	PM10
				13.07.2016	70	Satisfactory	PM10
				18.07.2016	82	Satisfactory	PM10
				21.07.2016	91	Satisfactory	PM10
				25.07.2016	85	Satisfactory	PM10
2	Khoya Mandi Tiraha, Lucknow Road	Raebareli	Uttar Pradesh	28.07.2016	82	Satisfactory	PM10
				04.07.2016	106	Moderate	PM10
				11.07.2016	104	Moderate	PM10
				13.07.2016	87	Satisfactory	PM10
				18.07.2016	103	Moderate	PM10
				21.07.2016	105	Moderate	PM10
3	Amawan Road Industrial Area	Raebareli	Uttar Pradesh	25.07.2016	106	Moderate	PM10
				28.07.2016	100	Satisfactory	PM10
				05.07.2016	90	Satisfactory	PM10
				12.07.2016	101	Moderate	PM10
				15.07.2016	91	Satisfactory	PM10
				19.07.2016	84	Satisfactory	PM10
4	Buddh Bazar	Moradabad	Uttar Pradesh	22.07.2016	103	Moderate	PM10
				26.07.2016	83	Satisfactory	PM10
				07-04-2016	171	Moderate	PM10
				07-07-2016	156	Moderate	PM10
				07-11-2016	135	Moderate	PM10
				07-14-2016	130	Moderate	PM10
5	P.T.C.	Moradabad	Uttar Pradesh	07-18-2016	104	Moderate	PM10
				07-25-2016	153	Moderate	PM10
				07-28-2016	97	Satisfactory	PM10
				07-01-2016	107	Moderate	PM10
				07-05-2016	117	Moderate	PM10
				07-08-2016	116	Moderate	PM10
				07-12-2016	114	Moderate	PM10
				07-15-2016	98	Satisfactory	PM10
6	Virangna Nager	Jhansi	Uttar Pradesh	07-19-2016	85	Satisfactory	PM10
				07-26-2016	102	Moderate	PM10
				07-29-2016	108	Moderate	PM10
				01-07-2016	66	Satisfactory	PM10
				04-07-2016	69	Satisfactory	PM10
				06-07-2016	65	Satisfactory	PM10
				12-07-2016	58	Satisfactory	PM10
				14/7/2016	69	Satisfactory	PM10
7	Manik Chowk	Jhansi	Uttar Pradesh	20/7/2016	64	Satisfactory	PM10
				26/7/2016	64	Satisfactory	PM10
				29/7/2016	65	Satisfactory	PM10
				31/7/2016	59	Satisfactory	PM10
				01-07-2016	94	Satisfactory	PM10
				04-07-2016	91	Satisfactory	PM10
				06-07-2016	92	Satisfactory	PM10
				12-07-2016	80	Satisfactory	PM10
14/7/2016	91	Satisfactory	PM10				
20/7/2016	86	Satisfactory	PM10				
26/7/2016	78	Satisfactory	PM10				
29/7/2016	89	Satisfactory	PM10				
31/7/2016	80	Satisfactory	PM10				

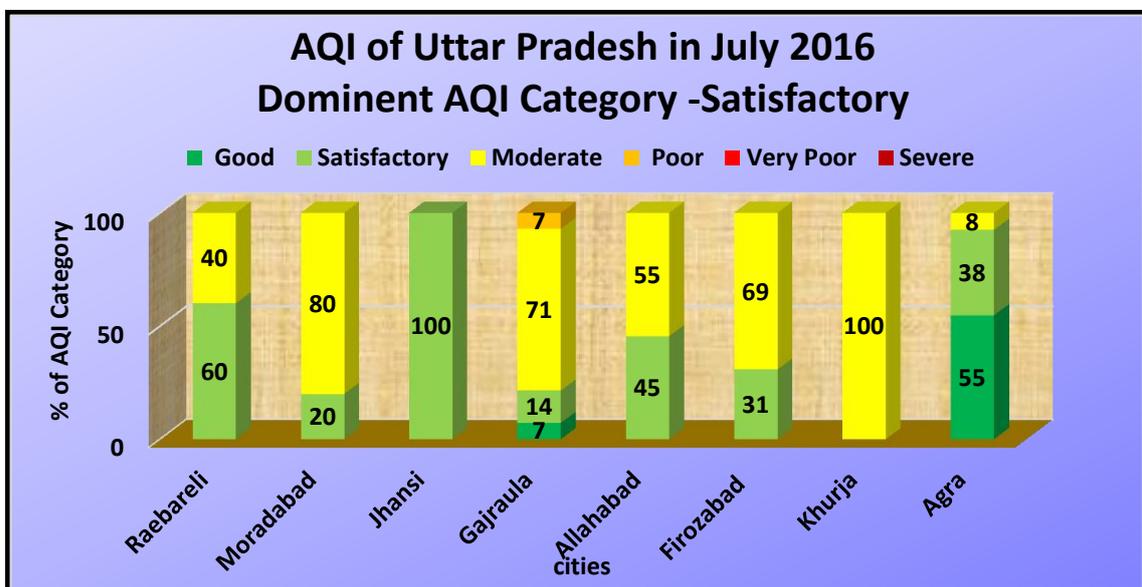
Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
8	I.Chawk	Gajraula	Uttar Pradesh	01.07.2016	134	Moderate	PM10
				05.07.2016	223	Poor	PM10
				08.07.2016	91	Satisfactory	PM10
				12.07.2016	122	Moderate	PM10
				19.07.2016	149	Moderate	PM10
				29.07.2016	118	Moderate	PM10
9	Raunaq	Gajraula	Uttar Pradesh	04.07.2016	124	Moderate	PM10
				07.07.2016	154	Moderate	PM10
				11.07.2016	107	Moderate	PM10
				14.07.2016	118	Moderate	PM10
				18.07.2016	128	Moderate	PM10
				21.07.2016	42	Good	PM10
				25.07.2016	105	Moderate	PM10
28.07.2016	77	Satisfactory	PM10				
10	Square Crossing Circle of Laxmi Talkies	Allahabad	Uttar Pradesh	04-07-2016	117	Moderate	PM10
				06-07-2016	128	Moderate	PM10
				20/07/2016	138	Moderate	PM10
				21/07/2016	122	Moderate	PM10
				25/07/2016	123	Moderate	PM10
				27/07/2016	148	Moderate	PM10
11	Bharat Yantra Nigam Limited	Allahabad	Uttar Pradesh	04-07-2016	99	Satisfactory	PM10
				06-07-2016	95	Satisfactory	PM10
				20/07/2016	68	Satisfactory	PM10
				25/07/2016	68	Satisfactory	PM10
				27/07/2016	94	Satisfactory	PM10
12	CDGI S.N.MARG	Firozabad	Uttar Pradesh	1.07.2016	100	Satisfactory	PM10
				5.07.2016	106	Moderate	PM10
				8.07.2016	115	Moderate	PM10
				12.07.2016	115	Moderate	PM10
				15.07.2016	120	Moderate	PM10
				19.07.2016	119	Moderate	PM10
				22.07.2016	86	Satisfactory	PM10
				26.07.2016	109	Moderate	PM10
29.07.2016	100	Satisfactory	PM10				
13	TILAK NAGAR	Firozabad	Uttar Pradesh	02.7.2016	117	Moderate	PM10
				06.07.2016	104	Moderate	PM10
				09.07.2016	110	Moderate	PM10
				13.07.2016	101	Moderate	PM10
				16.07.2016	110	Moderate	PM10
				20.07.2016	103	Moderate	PM10
				23.07.2016	101	Moderate	PM10
				27.07.2016	93	Satisfactory	PM10
				30.07.2016	96	Satisfactory	PM10
14	RAKA KA TAL	Firozabad	Uttar Pradesh	04.07.2016	112	Moderate	PM10
				07.07.2016	100	Satisfactory	PM10
				11.07.2016	110	Moderate	PM10
				14.07.2016	102	Moderate	PM10
				18.07.2016	100	Satisfactory	PM10
				21.07.2016	121	Moderate	PM10
				25.07.2016	97	Satisfactory	PM10
28.07.2016	105	Moderate	PM10				
15	CGCRI, Khurja	Khurja	Uttar Pradesh	04.07.16	148	Moderate	PM10
				07.07.16	147	Moderate	PM10
				11.07.16	147	Moderate	PM10
				14.07.16	149	Moderate	PM10
				18.07.16	147	Moderate	PM10
				21.07.16	148	Moderate	PM10
				25.07.16	148	Moderate	PM10
				28.07.16	149	Moderate	PM10

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
16	Ahirpara, Khurja	Khurja	Uttar Pradesh	03.07.16	133	Moderate	PM10
				06.07.16	135	Moderate	PM10
				10.07.16	137	Moderate	PM10
				13.07.16	140	Moderate	PM10
				17.07.16	139	Moderate	PM10
				20.07.16	138	Moderate	PM10
				24.07.16	140	Moderate	PM10
				27.07.16	139	Moderate	PM10
				31.07.16	140	Moderate	PM10
17	Itmad-ud-daulah	Agra	Uttar Pradesh	01.07.2016	50	Good	PM2.5
				04.07.2016	50	Good	PM2.5
				06.07.2016	62	Satisfactory	PM2.5
				12.07.2016	64	Satisfactory	PM10
				16.07.2016	40	Good	PM2.5
				19.07.2016	103	Moderate	PM10
				22.07.2016	53	Satisfactory	PM10
				25.07.2016	62	Satisfactory	PM10
				28.07.2016	36	Good	PM10
31.07.2016	44	Good	PM10				
18	Nunhai	Agra	Uttar Pradesh	03.07.2016	59	Satisfactory	PM10
				09.07.2016	103	Moderate	PM2.5
				11.07.2016	67	Satisfactory	PM2.5
				13.07.2016	93	Satisfactory	PM2.5
				15.07.2016	63	Satisfactory	PM2.5
				18.07.2016	107	Moderate	PM2.5
				21.07.2016	151	Moderate	PM10
				24.07.2016	98	Satisfactory	PM10
				27.07.2016	61	Satisfactory	PM10
19	Rambagh	Agra	Uttar Pradesh	02.07.2016	52	Satisfactory	PM2.5
				05.07.2016	49	Good	PM10
				08.07.2016	47	Good	PM10
				14.07.2016	46	Good	PM10
				17.07.2016	33	Good	NO2
				20.07.2016	65	Satisfactory	PM10
				23.07.2016	71	Satisfactory	PM10
				26.07.2016	62	Satisfactory	PM10
				29.07.2016	61	Satisfactory	PM10
20	Tajmahal	Agra	Uttar Pradesh	02.07.2016	32	Good	PM10
				03.07.2016	46	Good	PM10
				04.07.2016	34	Good	PM10
				05.07.2016	62	Satisfactory	PM10
				06.07.2016	44	Good	PM10
				09.07.2016	43	Good	PM10
				10.07.2016	41	Good	PM10
				11.07.2016	18	Good	PM10
				12.07.2016	35	Good	PM10
				14.07.2016	35	Good	PM10
				16.07.2016	25	Good	PM10
				17.07.2016	18	Good	PM10
				18.07.2016	37	Good	PM10
				19.07.2016	29	Good	PM10
				20.07.2016	46	Good	PM10
				21.07.2016	64	Satisfactory	PM10
				23.07.2016	57	Satisfactory	PM10
24.07.2016	40	Good	PM10				
25.07.2016	59	Satisfactory	PM10				
26.07.2016	28	Good	PM10				
27.07.2016	37	Good	PM10				

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
				28.07.2016	22	Good	PM10
				30.07.2016	29	Good	PM10
				31.07.2016	29	Good	PM10

No of cities : 8
 No of locations : 20
 Total no of observations : 174

The analysis of AQI values in Uttar Pradesh during July 2016 indicates that 17% AQI values are falling in Good category, 39% are in satisfactory, 43% are in moderate category and 1% are in poor category. This indicates that the people in these areas have Breathing discomfort to the people with lung, heart disease, children and older adults.



Status of AQI: West Bengal

Cities covered: Kolkata, Durgapur, Howrah, Asansol, Barrckpore, Ranigunj, South Suburban and Sankrail during July 2016

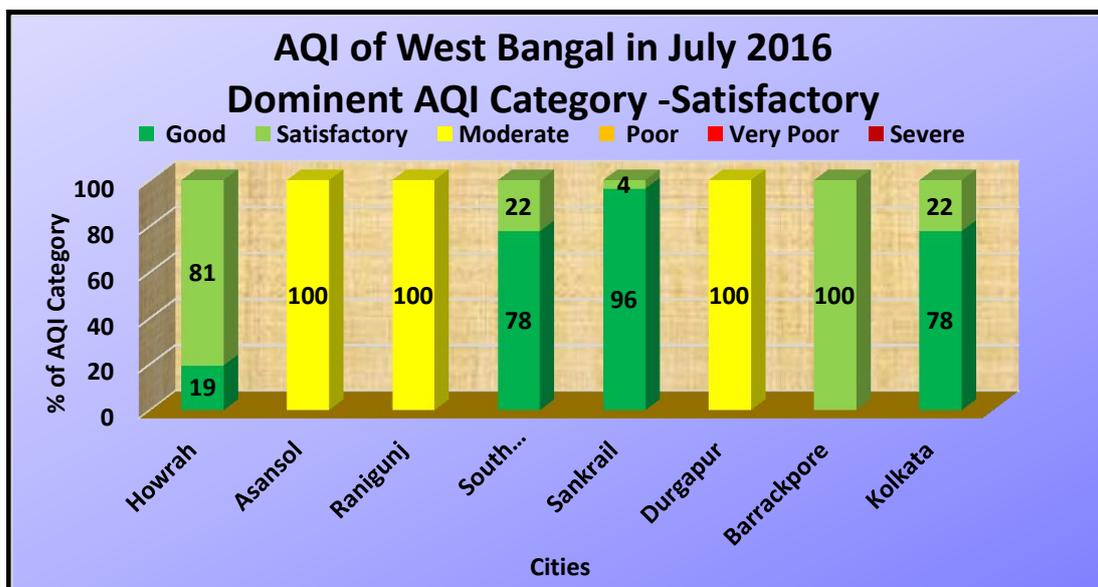
Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
1	HMC, Howrah	Howrah	West Bengal	07-01-2016	61	Satisfactory	NO2
				07-04-2016	55	Satisfactory	NO2
				07-07-2016	56	Satisfactory	NO2
				07-10-2016	53	Satisfactory	NO2
				07-13-2016	57	Satisfactory	NO2
				07-19-2016	78	Satisfactory	NO2
				07-22-2016	66	Satisfactory	NO2
				07-25-2016	58	Satisfactory	NO2
2	Bandhaghat, Howrah	Howrah	West Bengal	07-28-2016	70	Satisfactory	NO2
				07-02-2016	55	Satisfactory	NO2
				07-06-2016	67	Satisfactory	NO2
				07-09-2016	59	Satisfactory	NO2
				07-12-2016	63	Satisfactory	NO2
				07-15-2016	66	Satisfactory	NO2
				07-18-2016	74	Satisfactory	NO2
				07-21-2016	64	Satisfactory	NO2
3	Bator, Howrah	Howrah	West Bengal	07-24-2016	68	Satisfactory	NO2
				07-27-2016	70	Satisfactory	NO2
				07-02-2016	50	Good	NO2
				07-06-2016	52	Satisfactory	NO2
				07-09-2016	43	Good	NO2
				07-12-2016	49	Good	NO2
				07-15-2016	54	Satisfactory	NO2
				07-18-2016	55	Satisfactory	NO2
4	Ghusuri, Howrah	Howrah	West Bengal	07-21-2016	58	Satisfactory	NO2
				07-24-2016	57	Satisfactory	NO2
				07-27-2016	59	Satisfactory	NO2
				07-01-2016	56	Satisfactory	NO2
				07-04-2016	46	Good	NO2
				07-07-2016	50	Good	NO2
				07-10-2016	49	Good	NO2
				07-13-2016	52	Satisfactory	NO2
5	Municipal Corporation Office_Asansol, Burdwan	Asansol	West Bengal	07-19-2016	66	Satisfactory	NO2
				07-22-2016	59	Satisfactory	NO2
				07-25-2016	50	Good	NO2
				07-28-2016	56	Satisfactory	NO2
				07-02-2016	177	Moderate	PM2.5
				07-05-2016	177	Moderate	PM2.5
				07-08-2016	186	Moderate	PM2.5
				07-11-2016	173	Moderate	PM2.5
6	Kangsabati Spinning Mill, Bankura- ASANSOL	Asansol	West Bengal	07-14-2016	180	Moderate	PM2.5
				07-20-2016	146	Moderate	PM10
				07-24-2016	164	Moderate	PM2.5
				07-26-2016	152	Moderate	PM2.5
				07-29-2016	153	Moderate	PM2.5
				07-02-2016	165	Moderate	PM10
				07-05-2016	151	Moderate	PM10
				07-08-2016	157	Moderate	PM10
07-11-2016	158	Moderate	PM10				
07-14-2016	162	Moderate	PM10				
07-20-2016	153	Moderate	PM10				
07-24-2016	160	Moderate	PM10				
07-26-2016	150	Moderate	PM10				
07-29-2016	150	Moderate	PM10				

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
7	ISSCO Office_Burnpur, Burdhaman Asansol			07-02-2016	142	Moderate	PM10
				07-04-2016	157	Moderate	PM10
				07-07-2016	159	Moderate	PM10
				07-12-2016	154	Moderate	PM10
				07-15-2016	149	Moderate	PM10
				07-20-2016	152	Moderate	PM10
				07-24-2016	157	Moderate	PM10
				07-26-2016	150	Moderate	PM10
8	Ranigunj Municipal Bourah - II, Burdhaman Ranigunj			07-03-2016	158	Moderate	PM10
				07-06-2016	159	Moderate	PM10
				07-09-2016	154	Moderate	PM10
				07-12-2016	155	Moderate	PM10
				07-15-2016	153	Moderate	PM10
				07-18-2016	147	Moderate	PM10
				07-21-2016	146	Moderate	PM10
				07-27-2016	145	Moderate	PM10
				07-29-2016	145	Moderate	PM10
				9	SKS Public High School_Mangalpur, Raniganj	Ranigunj	West Bengal
07-03-2016	165	Moderate	PM10				
07-07-2016	163	Moderate	PM10				
07-09-2016	166	Moderate	PM10				
07-13-2016	163	Moderate	PM10				
07-17-2016	145	Moderate	PM10				
07-19-2016	153	Moderate	PM10				
07-21-2016	159	Moderate	PM10				
10	Jamuria Municipality, Burdhaman Raniganj			07-25-2016	155	Moderate	PM10
				07-02-2016	160	Moderate	PM10
				07-05-2016	172	Moderate	PM10
				07-08-2016	168	Moderate	PM10
				07-11-2016	158	Moderate	PM10
				07-14-2016	160	Moderate	PM10
				07-20-2016	152	Moderate	PM10
				07-24-2016	154	Moderate	PM10
11	Baruipur, 24 Parganas (S)- South Suburban	South Suburban	West Bengal	07-26-2016	150	Moderate	PM10
				07-30-2016	151	Moderate	PM10
				07-03-2016	29	Good	NO2
				07-06-2016	48	Good	PM10
				07-11-2016	31	Good	PM10
				07-16-2016	30	Good	PM10
				07-19-2016	37	Good	PM10
				07-22-2016	28	Good	NO2
				07-25-2016	24	Good	NO2
				12	Amtala, 24 Parganas (S)- South Suburban		
07-31-2016	35	Good	PM10				
07-01-2016	60	Satisfactory	PM10				
07-04-2016	70	Satisfactory	PM10				
07-07-2016	89	Satisfactory	PM10				
07-10-2016	30	Good	PM10				
07-13-2016	60	Satisfactory	PM10				
07-19-2016	34	Good	PM10				
13	Amta, Sankrail	Sankrail	West Bengal	07-23-2016	35	Good	PM10
				07-26-2016	43	Good	PM10
				07-29-2016	46	Good	PM10
				07-01-2016	32	Good	NO2
				07-05-2016	31	Good	NO2
				07-08-2016	32	Good	NO2
				07-11-2016	30	Good	NO2
				07-14-2016	45	Good	PM10

Sl. No.	Name of station	City	State	Sampling date	AQI	Status	Prominent Parameter
14	Bagnan, Sankrail			07-20-2016	38	Good	NO2
				07-23-2016	33	Good	NO2
				07-26-2016	32	Good	NO2
				07-29-2016	37	Good	PM10
				07-01-2016	39	Good	NO2
				07-05-2016	42	Good	NO2
				07-08-2016	38	Good	NO2
				07-11-2016	41	Good	NO2
				07-14-2016	59	Satisfactory	PM10
				07-20-2016	45	Good	NO2
				07-23-2016	47	Good	NO2
				07-26-2016	39	Good	NO2
15	Dhulagarh, Sankrail			07-29-2016	50	Good	NO2
				07-02-2016	38	Good	NO2
				07-06-2016	47	Good	NO2
				07-09-2016	37	Good	NO2
				07-12-2016	43	Good	NO2
				07-15-2016	43	Good	NO2
				07-18-2016	40	Good	NO2
				07-21-2016	45	Good	NO2
				07-24-2016	43	Good	NO2
				07-27-2016	40	Good	NO2
16	PCBL More_Durgapur	Durgapur	West Bangal	07-05-2016	173	Moderate	PM10
				07-09-2016	169	Moderate	PM10
				07-11-2016	156	Moderate	PM10
				07-13-2016	162	Moderate	PM10
				07-16-2016	152	Moderate	PM10
				07-21-2016	145	Moderate	PM10
				07-24-2016	159	Moderate	PM10
				07-27-2016	152	Moderate	PM10
				07-29-2016	151	Moderate	PM10
				07-03-2016	150	Moderate	PM10
				07-05-2016	161	Moderate	PM10
				07-07-2016	162	Moderate	PM10
				07-11-2016	152	Moderate	PM10
				07-15-2016	158	Moderate	PM10
07-20-2016	152	Moderate	PM10				
17	Quality Hotel_Benachiti , Durgapur			07-23-2016	153	Moderate	PM10
				07-26-2016	160	Moderate	PM10
				07-29-2016	149	Moderate	PM10
				07-04-2016	68	Satisfactory	NO2
				07-07-2016	63	Satisfactory	NO2
				07-10-2016	65	Satisfactory	NO2
				07-13-2016	87	Satisfactory	PM10
				07-18-2016	69	Satisfactory	NO2
07-23-2016	71	Satisfactory	NO2				
07-26-2016	72	Satisfactory	NO2				
07-29-2016	73	Satisfactory	NO2				
18	Khardah, North 24 Parganas Barrackpore	Barrackpore	West Bangal	07-02-2016	38	Good	PM10
				07-05-2016	30	Good	NO2
				07-08-2016	39	Good	PM10
				07-11-2016	31	Good	NO2
				07-14-2016	47	Good	PM10
				07-17-2016	55	Satisfactory	PM10
				07-20-2016	43	Good	PM10
				07-25-2016	26	Good	PM10
07-30-2016	63	Satisfactory	PM10				
19	Saltlake, Kolkata	Kolkata	West Bangal	07-02-2016	38	Good	PM10
				07-05-2016	30	Good	NO2
				07-08-2016	39	Good	PM10
				07-11-2016	31	Good	NO2
				07-14-2016	47	Good	PM10
				07-17-2016	55	Satisfactory	PM10
				07-20-2016	43	Good	PM10
				07-25-2016	26	Good	PM10
07-30-2016	63	Satisfactory	PM10				

No of cities : 8
 No of locations : 19
 Total no of observations : 170

The analysis of AQI values in West Bengal during July 2016 indicates that 32% AQI values are falling in good category 26% are in satisfactory and 42% are in moderate category. This indicates that the people in these areas have Breathing discomfort to the people with lungs, asthma and heart diseases.



To check air pollution in the country, the major steps taken by the Government to address the issues of air pollution in the country are as follows: -

- I. Notification of National Ambient Air Quality Standards envisaging 12 pollutants;
- II. Formulation of environmental regulations / statutes;
- III. Setting up of monitoring network for assessment of ambient air quality;
- IV. Introduction of cleaner / alternate fuels like gaseous fuel, ethanol blend etc. replacing petrol and diesel;
- V. Promotion of cleaner production processes;
- VI. Launched National Air Quality index by the Prime Minister in April, 2015 starting with 14 cities and now extended to 24 cities;
- VII. Implementation of Bharat Stage IV (BS-IV) norms in 63 selected cities and universalization of BS-IV by 2017;
- VIII. Decision taken to leapfrog directly from BS-IV to BS-VI fuel standards by 1st April, 2020;
- IX. Comprehensive amendments to various Waste Management Rules including Municipal Solid Waste, Plastic Waste, Hazardous Waste, Bio-medical Waste and Electronic Waste notified;
- X. Notification of Construction and Demolition Waste Management Rules 2016.
- XI. Ban on burning of leaves, biomass, municipal solid waste;
- XII. Promotion of public transport network of metro, buses, e-rickshaws and promotion of car-pooling, Pollution Under Control, lane discipline, vehicle maintenance;
- XIII. Revision of existing environmental standards and formulation of new standards for prevention and control of pollution from industries.
- XIV. Regular co-ordination meetings at official and ministerial level with Delhi and other State Governments within the NCR.
- XV. Issuance of directions under Section 5 of Environment (Protection) Act, 1986 and under Section 18(1)(b) of Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981;
- XVI. Installation of on-line continuous (24x7) monitoring devices by major industries.

The Central Pollution Control Board dated 29.12.2015 had issued directions to the PCCs/SPCBs of Delhi, Rajasthan, Uttar Pradesh and Haryana under section 18 (1) (b) of the Air (Prevention and Control of Pollution) Act, regarding prevention control or abatement or air pollution and improvement of Air Quality in Delhi and NCR, wherein six different aspects.

The major themes highlighted are:

- I. Control of Vehicular Emissions;
- II. Control of Road Dust/Re-suspension of dust and other fugitive emission;
- III. Control of Air Pollution from Bio-Mass Burning;
- IV. Control of Industrial Air Pollution;
- V. Control of Air Pollution from Construction and Demolition Activities;
- VI. Other Steps to control Air Pollution.

In continuation previous direction to Delhi and NCR, CPCB has issued fresh directions on similar lines to 20 States and 2 UTs on 01.07.2016 as fresh steps to mitigate air pollution in the country
States

O/C

File No. A-18011/41/2000(Part-II)-MON

1st July, 2016

To

The Chairman,
20 SPCBs & 02 PCCs
(as per list enclosed)

Directions under Section 18(1)(b) of the Air (Prevention and Control of Pollution) Act, 1981 regarding prevention and control of air pollution in non-attainment cities and towns

Whereas, under Section 17 (1) (a) of the Air (Prevention and Control of Pollution) Act, 1981, one of the functions of the State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs) is to plan comprehensive programmes for prevention, control or abatement of air pollution and to secure the execution thereof;

Whereas, levels of ambient Particulate Matter (PM₁₀) and NO₂ were observed to be exceeding the National Ambient Air Quality Standards (NAAQS) 2009 consecutively during 2011 – 2015 in the(name of the cities & towns) of(name of the State) (**Annexure – I**);

Whereas, air pollution is a matter of concern considering its adverse health impacts;

Whereas, air pollution has been viewed seriously by the Hon'ble Supreme Court, various High Courts and the National Green Tribunal (NGT), which have issued specific directions from time to time for improving the air quality;

Whereas, clean air is a matter of right and steps are urgently required to improve air quality, particularly in the areas where the levels exceed the stipulated standards; and these steps require a multipronged, sustained and integrated approach including close monitoring of implementation;

Whereas, functions of the Central Pollution Control Board, under Section 16 of the Air (Prevention and Control of Pollution) Act, 1981, include improvement of quality of air and to prevent, control or abate air pollution in the country;

Whereas, the Central Pollution Control Board, in the past, made several requests to the State Pollution Control Boards to prepare effective air quality management plans in respect of non-attainment cities and towns, and make efforts to get these plans implemented for improving the air quality;

Whereas, various studies conducted in the past have broadly identified the major sources of air pollution in urban areas, and these sources include (a) resuspension of road dust, (b) vehicles, (c)

1

burning of biomass, crop residues, Municipal Solid Waste, garbage, (d) construction and demolitions activities, (e) industrial units including power plants, (f) diesel generator sets to augment power supply, and (g) fuel usage for domestic and commercial activities;

NOW, THEREFORE, in view of the above, the following directions in exercise of powers under section 18(1) (b) of the Air (Prevention and Control of Pollution) Act, 1981 are hereby issued:

1. Ensure that the following actions are taken within the timeframe, as mentioned against each activity:

(A) Vehicle emission control

Sl. No.	Action Points	Timeframe for implementation
i)	Launch extensive drive against polluting vehicles for ensuring strict compliance	To commence within a week of receipt of the directions, and thereafter continue as regular activity
ii)	Launch public awareness campaign for air pollution control, vehicle maintenance, minimizing use of personal vehicles, lane discipline, etc.	
iii)	Prevent parking of vehicles in the non-designated areas	
iv)	Initiate steps for retrofitting of particulate filters in diesel vehicles, when BS-V fuels are available	Within a reasonable timeframe
v)	Prepare action plan to check fuel adulteration and random monitoring of fuel quality data	30 days
vi)	Prepare plan for widening of road and improvement of infrastructure for decongestion of road	90 days
vii)	Prepare plan for construction of expressways/bypasses to avoid congestion due to non-designated vehicles	180 days
viii)	Steps for promoting battery operated vehicles	120 days
ix)	Install weigh in motion bridges at the borders of cities/towns and States to prevent overloading of vehicles	180 days
x)	Synchronize traffic movements/Introduce intelligent traffic systems for lane-driving	180 days
xi)	Installation of remote sensor based PUC system	180 days

(B) Re-suspension of road dust and other fugitive emissions control

Sl. No.	Action Points	Timeframe for implementation
i)	Prepare plan for creation of green buffers along the traffic corridors	90 days
ii)	Maintain potholes free roads for free-flow of traffic	90 days
iii)	Introduce water fountains at major traffic intersection, wherever feasible	90 days
iv)	Greening of open areas, gardens, community places, schools and housing societies	90 days
v)	Blacktopping of metaled road including pavement of road shoulders	180 days



2

(C) Control of emissions from biomass/crop residue/garbage/municipal solid waste burning

Sl. No.	Action Points	Time Frame for implementation
i)	Launch extensive drive against open burning of bio-mass, crop residue, garbage, leaves, etc.	90 days
ii)	Regular check and control of burning of municipal solid wastes	
iii)	Proper collection of horticulture waste (bio-mass) and its disposal following composting-cum-gardening approach	
iv)	Ensure ban on burning of agriculture waste and crop residues and its implementation	180 days

(D) Control of industrial emissions

Sl. No.	Action Points	Time Frame for implementation
i)	Identification of brick kilns and their regular monitoring including use of designated fuel, and closure of unauthorized units	60 days
ii)	Conversion of natural draft brick kilns to induced draft	120 days
iii)	Action against non-complying industrial units	60 days, and thereafter, regular activity

(E) Control of air pollution from construction and demolition activities

Sl. No.	Action Points	Time Frame for implementation
i)	Enforcement of Construction & Demolition Rules	To commence within two weeks of receipt of the directions, and thereafter, continue as regular activity
ii)	Control measures for fugitive emissions from material handling, conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units;	
iii)	Ensure carriage of construction material in closed/covered vessels	

(F) Other Steps to control Air Pollution

Sl. No.	Action Points	Time Frame for implementation
i)	Air Quality Index to be calculated and disseminated to the people through website and other media (on maximum weekly basis for manually operated monitoring stations and real time basis for continuous monitoring stations)	To commence within a week of receipt of the directions, and thereafter, continue as regular activity
ii)	Establish an Air Quality Management Division at SPCB/PCC Head Quarters to oversee air quality management activities in the State and interact with CPCB	30 days
iii)	Set-up and publicize helpline in each city/town as well as SPCB/PCC HQ for complaints against reported non-compliance	30 days
iv)	Engage with concerned authorities on continual basis for maximizing coverage of LPG/PNG for domestic and	30 days

	commercial cooking with target of 100% coverage	
v)	Monitoring of DG sets and action against violations	30 days

2. The action plan should be discussed with the concerned stakeholders for appropriate revision considering specific situations of the respective city/town, and implementation of the finalized plan. The exercise should be completed and action plan submitted to CPCB within 45 days of receipt of the direction.
3. The State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) shall acknowledge the receipt of this direction within one week of receipt of these directions.
4. The SPCBs/PCCs shall issue further directions to such authorities as may be necessary for implementation of these directions, within two weeks of receipt of these directions.
5. The progress of implementation should be periodically review, and status submitted to CPCB in every six months (by June 30th and December 31st of year).

Sd/-

(Arun Kumar Mehta)
Chairman

Copy to:

1. PS to Minister of Environment, Forest, and Climate Change, Ministry of Environment, Forests, & Climate Change, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi 110003
2. PPS to Secretary, Ministry of Environment, Forest and Climate Change, Indira Bhawan, Aliganj, Jorbagh Road, New Delhi-110003
3. PPS to Additional Secretary (Dr. M.M. Kutty), Ministry of Environment, Forest, & Climate Change, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi 110003
4. PPS to Chief Secretary, as per list of States
5. Municipal Commissioners of the cities and towns, as per list

(Arun Kumar Mehta)

Am *Q*

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केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

File No. A-18011/41/2000(Part-II)-MON

29th December, 2015

To

The Chairman,
Delhi Pollution Control Committee
6th Level, B-Wing,
Delhi Secretariat,
I.P. Estate,
New Delhi - 110002

Directions under Section 18(1)(b) of the Air (Prevention and Control of Pollution) Act, 1981 regarding prevention, control or abatement of air pollution and improvement of Ambient Air Quality in Delhi and National Capital Region (NCR)

Whereas, under Section 17 (1) (a) of the Air (Prevention and Control of Pollution) Act, 1981, one of the functions of the State Pollution Control Boards (SPCBs) and Pollution Control Committees (PCCs) is to plan comprehensive programmes for prevention, control or abatement of air pollution and to secure the execution thereof;

Whereas, levels of Particulate Matter (PM10 & PM2.5) exceed the National Ambient Air Quality Standards (NAAQS) 2009 in the National Capital Region (NCR);

Whereas, the primary sources of air pollution in NCR States are: a) vehicular emissions; b) burning of biomass, Crop residues, Municipal Solid Waste and Garbage, c) Road dust; d) Constructions and Demolitions; and g) Industrial emissions, etc;

Whereas, serious concerns have been expressed by Hon'ble Supreme Court, High Court of Delhi and the National Green Tribunal (NGT) in the matter from time to time and specific directions have been issued;

Whereas, there have been regular meetings between Ministry of Environment, Forest & Climate Change (MoEF&CC) with the Government of Delhi, Haryana, Uttar Pradesh and Rajasthan to evolve and implement short and long term action plans;

1 | Page

परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032
Parivesh Bhawan, East Arjun Nagar, Delhi-110032
दूरभाष/Tel : 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

Whereas, the concerned State Governments have agreed to implement identified actions on short and long term basis;

Whereas, clean air is a matter of right and it is necessary to implement steps towards improvement of Air Quality in the National Capital Region;

Whereas, functions of the Central Pollution Control Board under Section 16 of the Air (Prevention and Control of Pollution) Act, 1981 include improvement of quality of air and to prevent, control or abate air pollution in the country;

Whereas, steps are urgently required to improve air quality adopting a multipronged and integrated approach including close monitoring of implementation;

NOW, THEREFORE, in view of the above stated facts, the following directions in exercise of powers under section 18(1) (b) of the Air (Prevention and Control of Pollution) Act, 1981 are hereby issued in order to improve the air quality in Delhi and NCR as per timelines indicated:

A.) Control of Vehicular Emissions:

Sl. No.	Action Points	Time Frame for implementation
i)	Launch extensive awareness drive against polluting vehicles;	Immediate
ii)	Ensure Strict action against visibly polluting vehicles;	Immediate
iii)	Install weigh in motion bridges at Delhi borders to prevent overloading;	Immediate
iv)	Take steps to prevent parking of vehicles in the non-designated areas;	Immediate
v)	Introduce early alarm system for benefit of commuters related to traffic congestion on major routes for route diversion ;	Immediate
vi)	Consider introducing plan for Flexi/staggered timings to minimize peak movement of vehicles on the road;	Immediate
vii)	Take steps for retrofitting of diesel vehicles with Particulate Filters;	Immediate
viii)	De-congest pathways;	Immediate
ix)	Synchronize traffic movements / Introduce intelligent traffic systems for lane-driving;	30 days
x)	Install vapor recovery system in fueling stations;	30 days
xi)	Take steps for installation of remote sensor based PUC system etc.;	90 days

xii)	Formulate action plan for controlling decongestion of fuel stations including increasing number of dispensing machines;	90 days
xiii)	Prepare action plan to check fuel adulteration and random monitoring of fuel quality data;	90 days
xiv)	Prepare action plan for public transport on CNG mode;	90 days
xv)	Undertake road widening and improvement of infrastructure for decongestion of road;	90 days
xvi)	Promote battery operated vehicles;	90 days
xvii)	Take steps to expedite early completion of Western and Eastern Peripheral expressway and submit completion schedule.	60 days

(B) Control of Road Dust/Re-suspension of dust and other fugitive emission:

Sl. No.	Action Points	Time Frame for implementation
i)	Formulate action plan for creation of green buffers along the traffic corridors;	Immediate
ii)	Introduce wet/ mechanized vacuum sweeping of roads;	30 days
iii)	Maintain pot holes free roads for free-flow of traffic to reduce emissions and dust;	60 days
iv)	Introduce water fountains at major traffic intersection, wherever feasible;	90 days
v)	Undertake greening of open areas, gardens, community places, schools and housing societies.	90 days
vi)	Take steps for blacktopping / pavement of road shoulders to avoid road dust;	180 days

(C) Control of Air Pollution from Bio-Mass Burning:

Sl. No.	Action Points	Time Frame for implementation
i)	Take stringent action against open burning of bio-mass/leaves/tyres etc to control such activities and submit periodic status reports;	Immediate
ii)	Ensure proper collection of horticulture waste (bio-mass) and composting-cum-gardening approach;	Immediate
iii)	Ensure strict enforcement of ban on burning of agriculture waste and crop residues;	Immediate

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iv)	Prohibit use of coal in hotels and restaurants and eliminate use of kerosene for cooking in Delhi;	60 days
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(D) Control of Industrial Air Pollution;

Sl. No.	Action Points	Time Frame for implementation
i)	Ensure strict action against unauthorized brick kilns;	30 days
ii)	Ensure strict action against industrial units not complying with standards ;	60 days
iii)	Enforce strict compliance of conversion of Natural draft brick kilns to induced-draft;	90 days
iv)	Launch action plan for switching over to natural gas by industries, wherever feasible.	120 days

(E) Control of Air Pollution from Construction and Demolition Activities:

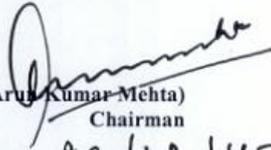
Sl. No.	Action Points	Time Frame for implementation
i)	Control dust pollution at construction sites through appropriate cover;	Immediate
ii)	Undertake control measures for fugitive emissions from material handling, conveying and screening operations through water sprinkling, curtains, barriers and dust suppression units;	30 days
iii)	Ensure carriage of construction material in closed/covered vessels;	30 days

(F) Other Steps to control Air Pollution

Sl. No.	Action Points	Time Frame for implementation
i)	Set-up helpline in States/UT for taking action against reported non-compliance;	Immediate
ii)	Evolve a system of reporting of garbage /municipal solid waste burning through mobile based applications and other social media platform linked with Central and State level Control Rooms ;	30 days
iii)	Establish Standard Operating Procedure to provide quick and effective response to complaints;	30 days

v)	Ensure DG sets meeting the standards only be allowed to operate ;	30 days
vi)	Promote use of LPG instead of coal in restaurants/ dhabas/ road side eateries;	90 days
vii)	Undertake Satellite based monitoring for tracking and enforcing agriculture waste burning;	90 days
viii)	Take steps for setting up of bio-mass based power generation units to avoid bio-mass burning.	One year

The State Pollution Control Boards (SPCBs) / Pollution Control Committee (PCC) shall acknowledge the receipt of this direction immediately and shall communicate the status of the implementation before 31st January 2016 supplemented with ambient air quality monitoring data being maintained by them. The SPCBs/PCC shall issue further directions to such authorities as may be necessary for implementation of these directions by 15th of January, 2016.


 (Arun Kumar Mehta)
 Chairman
 29/12/15



CENTRAL POLLUTION CONTROL BOARD
MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE

Parivesh Bhawan, East Arjun Nagar, Delhi-110032