

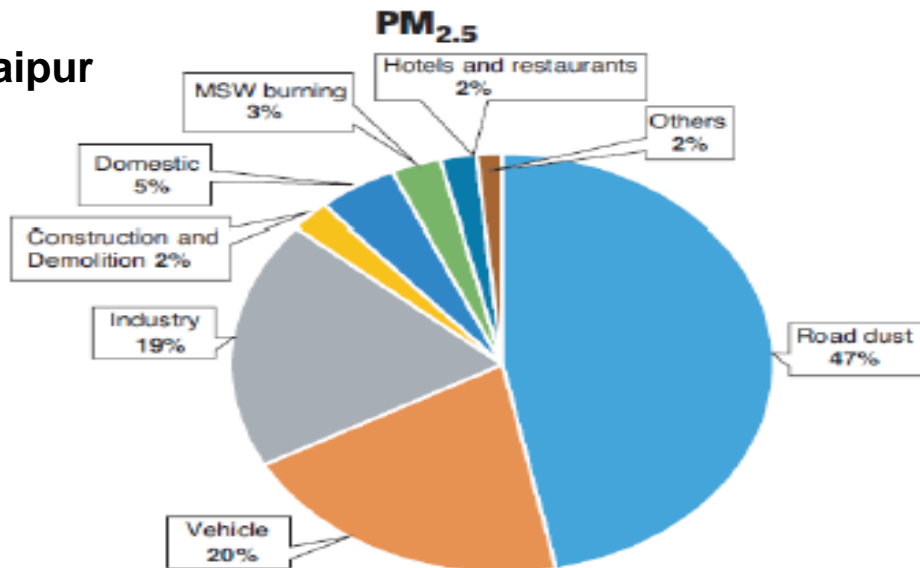


**Understanding Air Pollution - Workshop**  
**August 23, 2021**  
**Rajasthan**

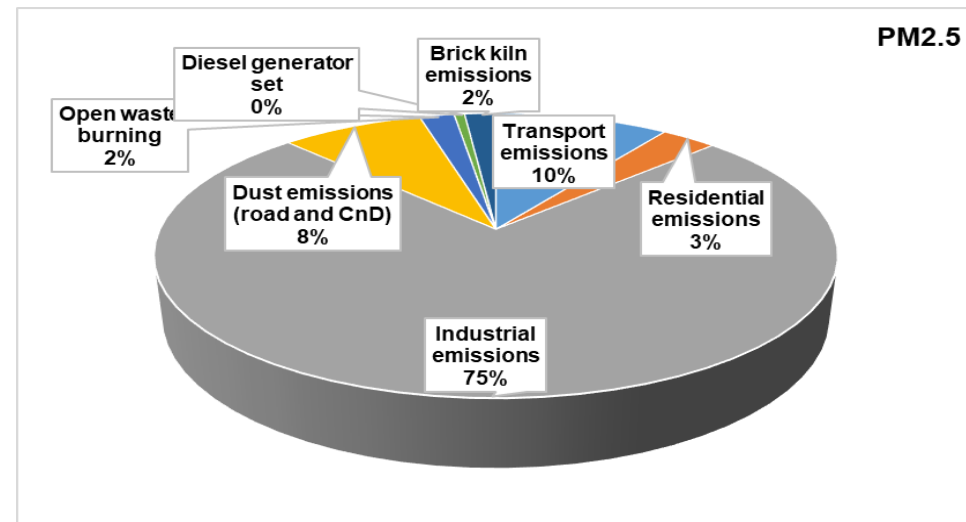


# Understanding sources of pollution in Rajasthan

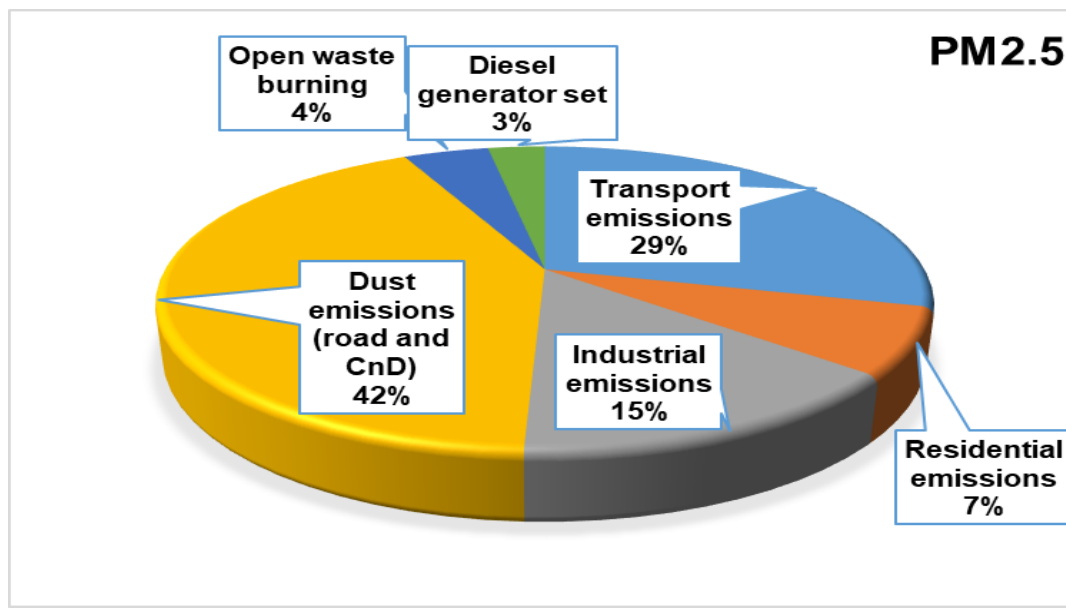
Jaipur



Kota



Jodhpur



# Local sources of pollution in Jaipur

Unpaved dusty junction, Ram Nagariya



Industrial waste dumping and burning in VKIA



Waste Burning at the landfill site



Vehicular pollution





# Local sources of pollution in Jodhpur

**Construction material dumped on unpaved roadside in Vidhya Nagar**



**Stack emissions from industries in Boronada industrial area**



**Construction dust**



**Vehicular pollution**



**Waste Burning**





# Local sources of pollution in Kota

Unpaved road due to construction of flyover,  
Anantpura



Movement of trucks in Roongta industrial  
area- congestion on the road



Stack emissions



Fugitive emissions



Along Nanta road



Nanta dumping ground



# Know your city's air quality

## 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 colour

CPCB published AQI data on everyday at 4pm using real time air quality data-

[https://cpcb.nic.in/AQI\\_Bulletin.php](https://cpcb.nic.in/AQI_Bulletin.php)

CPCB also publishes monthly AQI using the NAMP data (manual monitoring)- <https://cpcb.nic.in/archive-namp-data/>





## Air Quality Index

AQI Category	AQI	Concentration range*							
		PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>2</sub>	O <sub>3</sub>	CO	SO <sub>2</sub>	NH <sub>3</sub>	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
Moderately polluted	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/m<sup>3</sup> and other pollutants in µg/m<sup>3</sup>; 2h-hourly average values for PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, and Pb, and 8-hourly values for CO and O<sub>3</sub>.

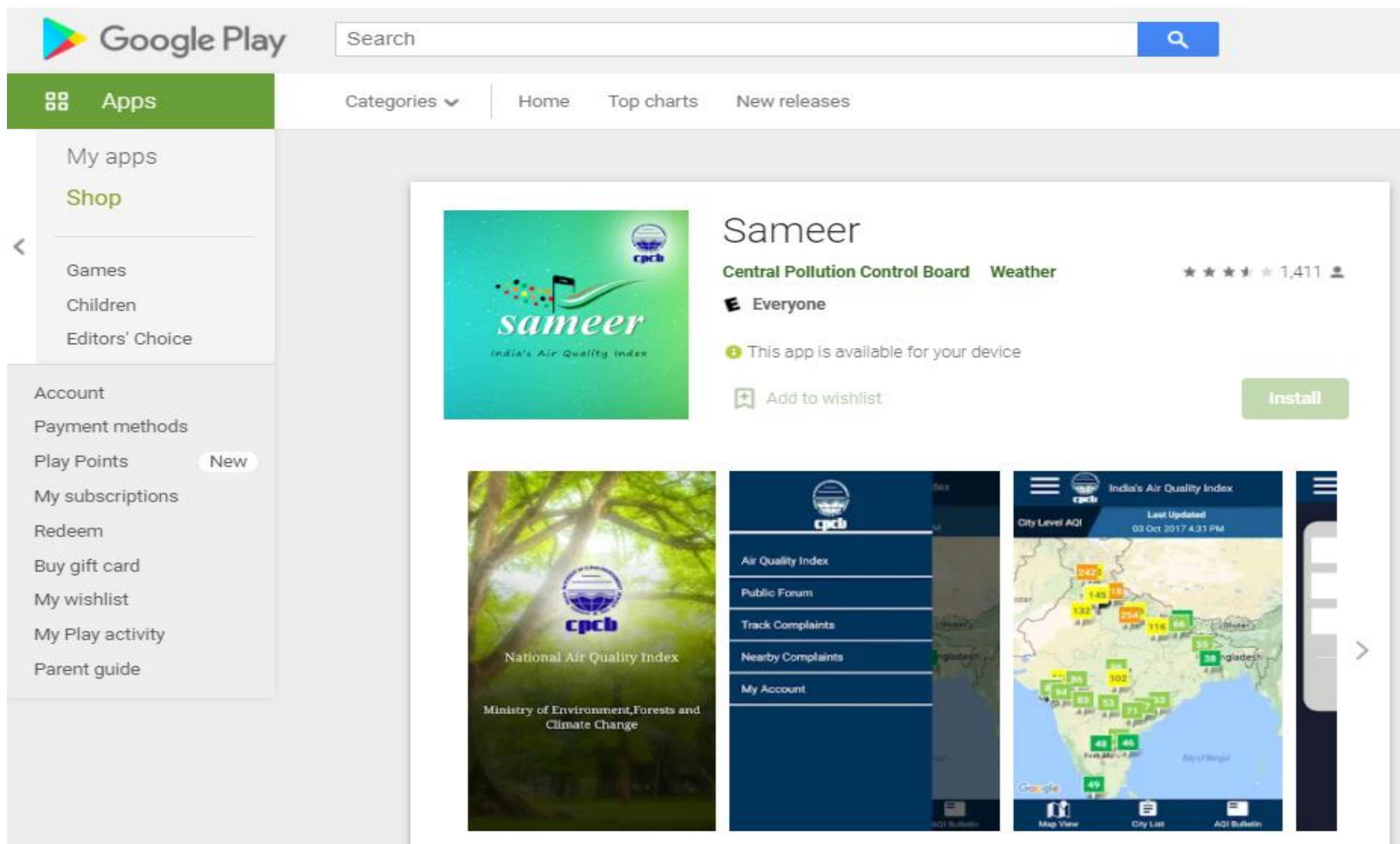
## Broad guidelines for Public

AQI	Associated Health Impacts
Good (0-50)	Minimal Impact
Satisfactory (51-100)	May cause minor breathing discomfort to sensitive people
Moderate (101-200)	May cause breathing discomfort to the people with lung disease such as asthma and discomfort to people with heart disease, children and older adults
Poor (201-300)	May cause breathing discomfort to people on prolonged exposure and discomfort to people with heart disease with short exposure
Very Poor (301-400)	May cause respiratory illness to the people on prolonged exposure. Effect may be more pronounced in people with lung and heart diseases
Severe (401-500)	May cause respiratory effects even on healthy people and serious health impacts on people with lung/heart diseases. The health impacts may be experienced even during light physical activity





# Central Pollution Control Board App- To check Air Quality Index



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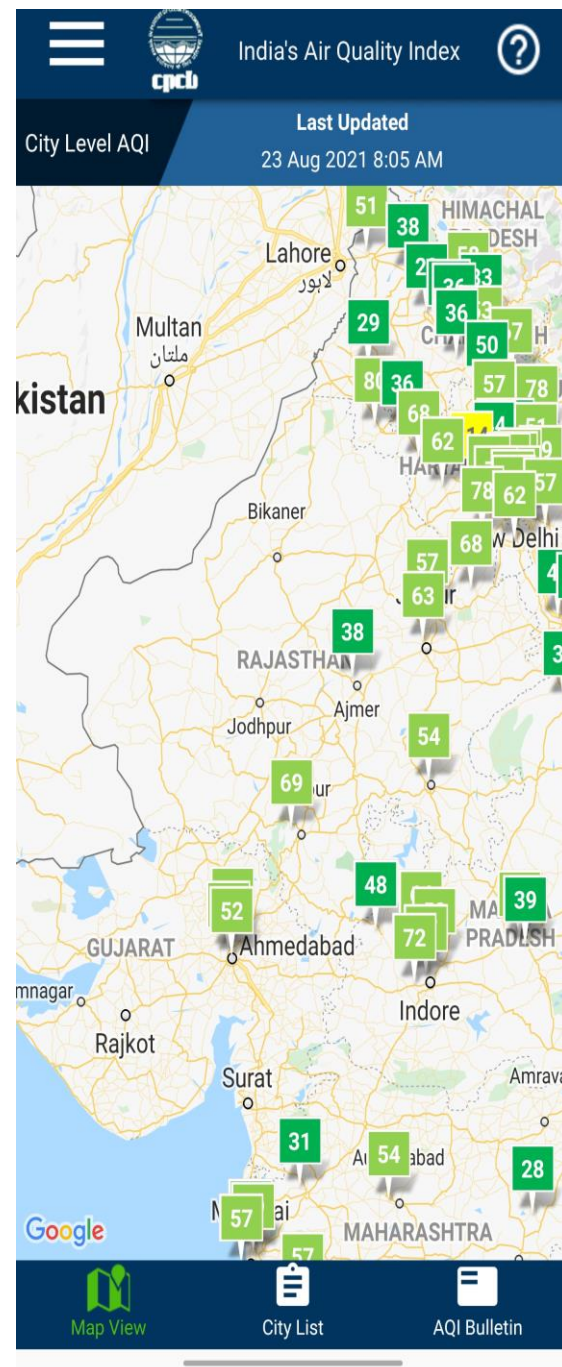
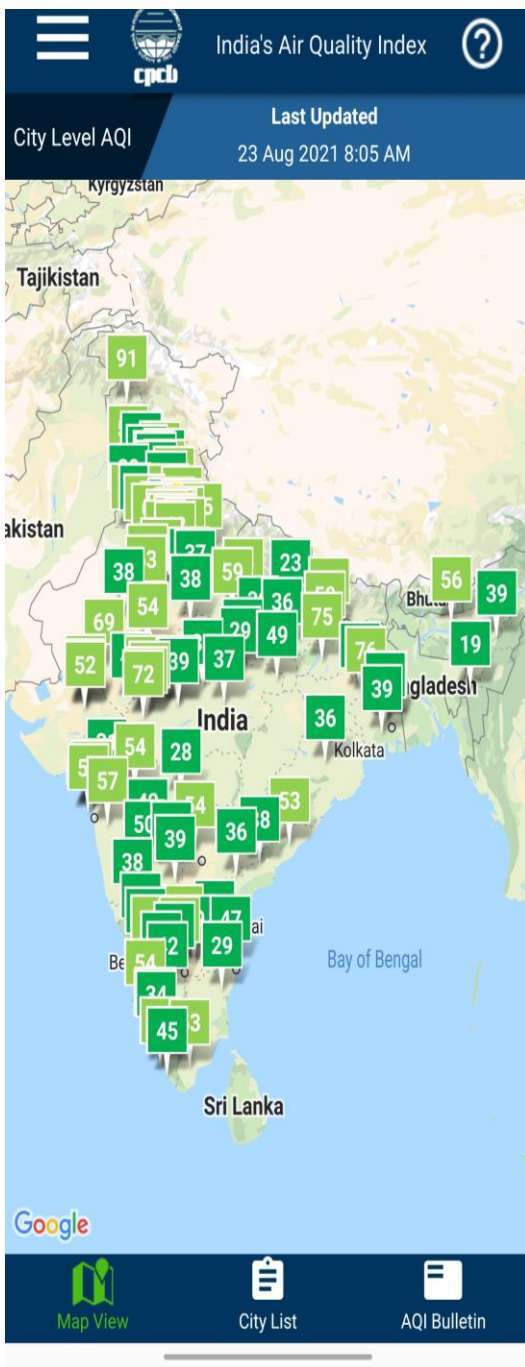
**City Level AQI**

City	AQI
Delhi	242
Mumbai	145
Chennai	132
Kolkata	116
Bangalore	102
Hyderabad	95
Pune	88
Jaipur	85
Lucknow	82
Patna	78
Indore	75
Bhopal	72
Surat	68
Rajkot	65
Vadodra	62
Gandhinagar	58
Faridkot	55
Meerut	52
Gurgaon	48
Noida	45
Faridkot	42
Meerut	38
Gurgaon	35
Noida	32
Faridkot	28
Meerut	25
Gurgaon	22
Noida	18
Faridkot	15
Meerut	12
Gurgaon	8
Noida	5
Faridkot	2

Map View City List AQI Bulletin







India's Air Quality Index

City Level AQI

Last Updated  
23 Aug 2021 8:05 AM

Total number of Cities :113

Agra	48
Ahmedabad	57
Aizawl	19
Ajmer	38
Alwar	68
Amaravati	36
Ambala	53
Amritsar	51
Asansol	38
Aurangabad	54

Map View City List AQI Bulletin

India's Air Quality Index

Station Level AQI

Last Updated  
23 Aug 2021 8:05 AM

Total number of Stations :1

Moti Doongri, Alwar - RSPCB	68
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Map View City List AQI Bulletin

# What can we do in schools and at home?

Be part of the solution....Reduce pollution footprint



Any other??

-- Greening

-- Public awareness etc





# Thank You!

Connect with me on-  
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