

# CERCA Weekly Newsletter

January 25, 2019

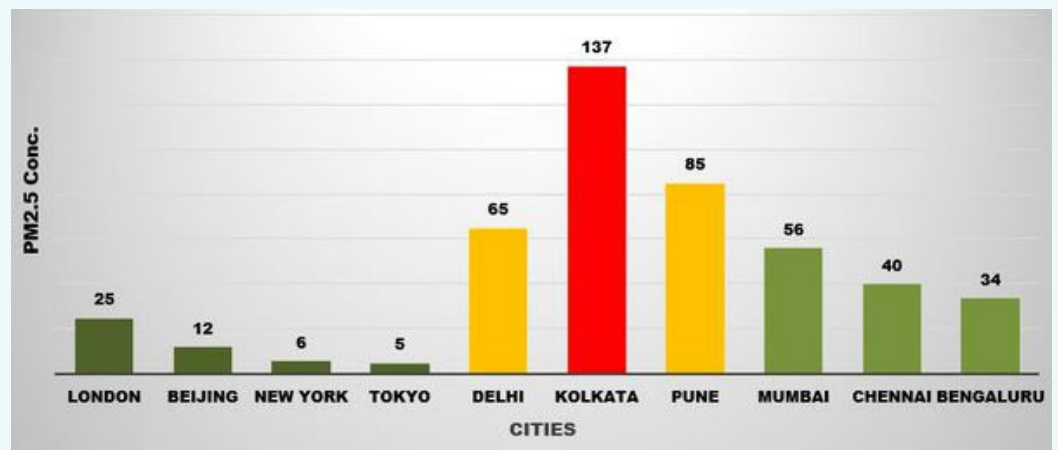
Center of Excellence for Research on Clean Air



Indian Institute of Technology, Delhi



## Air Quality in different cities



Kolkata air quality is Poor whereas Beijing is Good

January 25, 2019, 10:00-11:00 IST (Hourly Average)

Data Source: Berkeley Earth

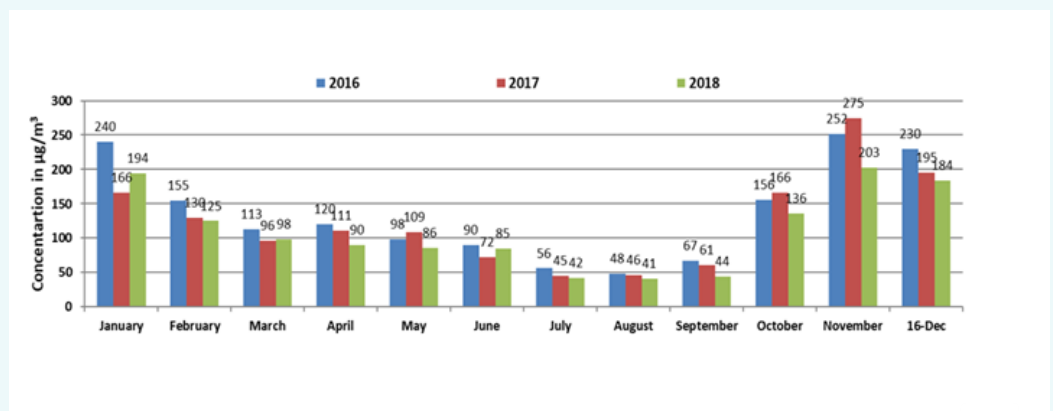
## Delhi air quality for last 30 days



Average PM2.5 Air Quality for 10 stations in Delhi.

Data Source: CPCB

### Delhi long term air quality trend



About 18 % decrease in PM2.5 levels in October, about 26 % in November and about 6 % in December 2018 in comparison to corresponding months in 2017 have been observed.

### Air quality health impacts

| Air quality         | AQI Category (range) | PM2.5 24-hr (range) | Likely Health Impacts                                                                                                                                                                         |
|---------------------|----------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Good                | 0-50                 | 0-30                | Minimal Impact                                                                                                                                                                                |
| Satisfactory        | 51-100               | 31-60               | May cause minor breathing discomfort to sensitive people                                                                                                                                      |
| Moderately polluted | 101-200              | 61-90               | 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              | 91-120              | May cause breathing discomfort to people on prolonged exposure and discomfort to people with heart disease with short exposure                                                                |
| Very Poor           | 301-400              | 121-250             | 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              | 250+                | 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 |

## Thought Leadership

### [Choked by air pollution](#)

Science can help to tackle air pollution with better models for monitoring and exposure.

<https://www.nature.com/articles/d41586-018-06731-4>

Source: Nature

## New Measures and Initiatives

### [IIT-H team to help governments combat air pollution levels](#)

A team of researchers from the Indian Institute of Technology, Hyderabad (IIT-H) is coordinating a study on 'air pollution governance across cities'.

<https://timesofindia.indiatimes.com/city/hyderabad/iit-h-team-to-help-govts-combat-air-pollution-levels/articleshow/67647916.cms>

Source: Times of India

### [NGT slams DPCC over Malviya Nagar pollution](#)

The National Green Tribunal slammed the Delhi Pollution Control Committee (DPCC) on Thursday for not submitting a proper report on a plea alleging air pollution due to chemicals released by a dyeing industry in Malviya Nagar area.

<https://timesofindia.indiatimes.com/city/delhi/ngt-slams-dpcc-over-report-on-pollution-caused-by-industry-in-malviya-nagar/articleshow/67674360.cms>

## Health Impact

### [Air pollution and climate change are global health threats in 2019: WHO](#)

The World Health Organization (WHO) has listed out the top 10 global health threats for 2019, ranging from vaccine-preventable diseases to drug-resistant infections, from obesity and physical inactivity to cancer and environmental diseases like heart and lung problems.

<https://www.timesnownews.com/health/article/from-air-pollution-and-climate-change-to-dengue-and-superbugs-hiv-influenza-pandemic-ebola-who-list-of-top-10-global-health-threats-in-2019/351836>

Source: Times Now

### [Air pollution: A new threat in Kabul](#)

A seasonal lack of rain and snow in Kabul, coupled with a fast-growing population, fume-belching vehicles, and proliferation of diesel-fuelled generators, are contributing to the deteriorating air quality and health.

<https://www.ndtv.com/world-news/amid-suicide-attacks-and-bombs-kabul-faces-a-new-threat-air-pollution-1980763>

Source: NDTV

## International Developments

### [Water spraying drones to curb air pollution: Bangkok](#)

Air pollution has reached hazardous levels in Bangkok, Thailand, leading some officials to attempt an unusual approach: letting drones spray the pollution out of the sky.

<https://qz.com/1531305/thailand-fights-bangkok-air-pollution-with-water-spraying-drones/>

Source: Quartz

### [Plan to tackle air pollution in Mediterranean Sea](#)

Cleaning up air pollution from shipping in the Mediterranean Sea would have financial benefits as well as saving lives. A feasibility report looking at implementing a low emission zone for ships in the region has concluded the benefits would outweigh the costs threefold.

<https://www.newscientist.com/article/2191427-france-and-others-plan-to-tackle-air-pollution-in-mediterranean-sea/>

Source: News Scientist

## New Research (study) or Policy

### **[Air pollution in Bengaluru to go up by 74% by 2030: Study](#)**

The city's increasing reliance on private modes of transport may lead to an increase in particulate matter pollution by more than 70% by 2030, states a study that has a dire prognosis for air pollution in Bengaluru.

<https://www.thehindu.com/news/cities/bangalore/air-pollution-in-bengaluru-to-go-up-by-74-by-2030-study/article26064689.ece>

*Source: The Hindu*

### **[Delhi Rain Drastically Brings Down Air Pollution](#)**

Heavy rains drastically reduced the pollution level of the national capital, which recorded the best air quality of this year on Tuesday, authorities said.

[https://www.huffingtonpost.in/entry/delhi-rain-drastically-brings-down-air-pollution\\_in\\_5c46cddde4b027c3bbc4cc97](https://www.huffingtonpost.in/entry/delhi-rain-drastically-brings-down-air-pollution_in_5c46cddde4b027c3bbc4cc97)

*Source: Huffingtonpost*

## **New Technology**

### **[Mercedes Benz may roll out green SUV by year-end](#)**

Mercedes Benz may introduce its EQ-branded electric SUV, the EQC, in India by the end of 2019.

<https://economictimes.indiatimes.com/industry/auto/cars-uvs/mercedes-benz-may-roll-out-green-suv-by-year-end/articleshow/67681349.cms>

*Source: Economic Times*

### **[EVs into India quickly if policy framework is clear: Kia Motors](#)**

South Korean auto maker Kia Motors has the ability to drive in electric vehicles into the Indian market "very quickly" provided there is some clarity on the policy framework.

<https://economictimes.indiatimes.com/industry/auto/cars-uvs/can-bring-in-evs-into-india-quickly-if-policy-framework-is-clear-kia-motors/articleshow/67673139.cms>

*Source: Economic Times*

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