

STATUS OF AMBIENT AIR QUALITY IN THE U.T OF PUDUCHERRY FOR THE YEAR 2018

Puducherry Pollution Control Committee is carrying out manual ambient air quality monitoring at the following Six locations in the U.T. of Puducherry under the 'National Air quality Monitoring Programme' (NAMP) of Central Pollution Control Board (CPCB). The monitoring of pollutants is carried out for 24 hours (4-hourly sampling for gaseous pollutants and 8-hourly sampling for particulate matter) with a frequency of twice a week.

Sl. No.	Location Name	Location Type
1	Local Administrative Department Building (LAD), Suffren Street, Puducherry.	Residential area
2	Dept of Science Technology and Environment Building (DSTE), Anna Nagar, Puducherry.	Residential cumCommercial area
3	Electricity Department, Mettupalayam Industrial Estate (PIPDIC), Puducherry.	Industrial area
4	B.Ed. College, Nehru Nagar, Karaikal	Residential area
5	Govt. Tourist Home, Kovilpathu, Karaikal	Residential cumCommercial area
6	PPCL, Polagam, T.R. Pattinam, Karaikal	Industrial area

Air Pollutants monitored under NAMP& method of measurement

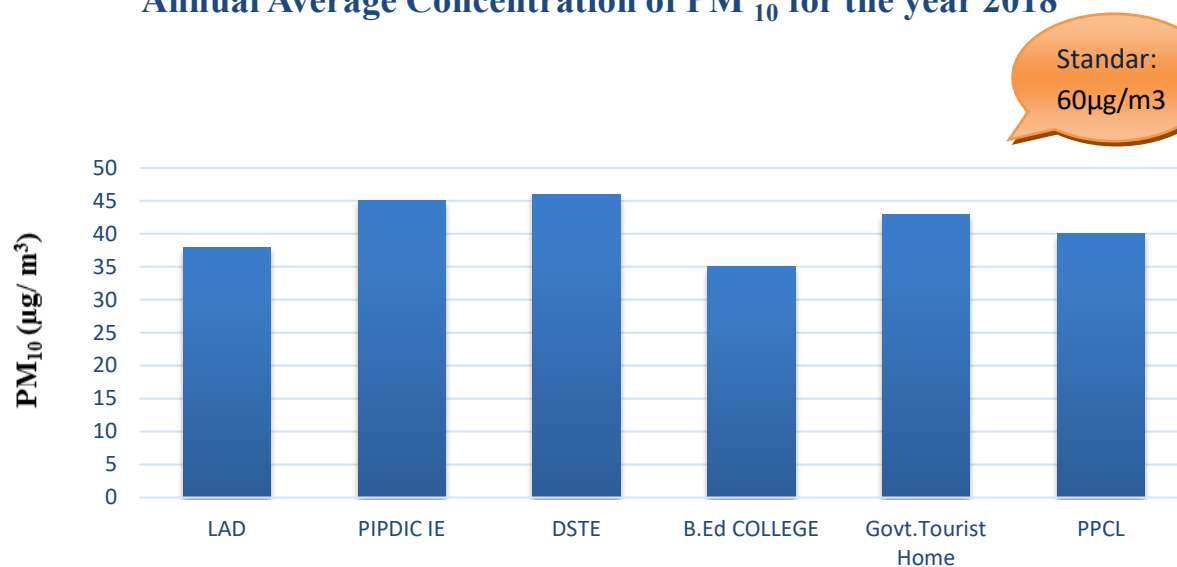
Sl.No	Air Pollutant	Method of measurement
1	Particulate Matter – Pm10 (size less than 10 microns)	Gravimetric
2	Nitrogen dioxide	Improved West and Gaeke method
3	Sulphurdi Oxide	Modified Jacob and Hochheiser

Status of Air Quality

Annual Average concentration of pollutant at the six monitored locations in the U.T. of Puducherry for the year, 2018

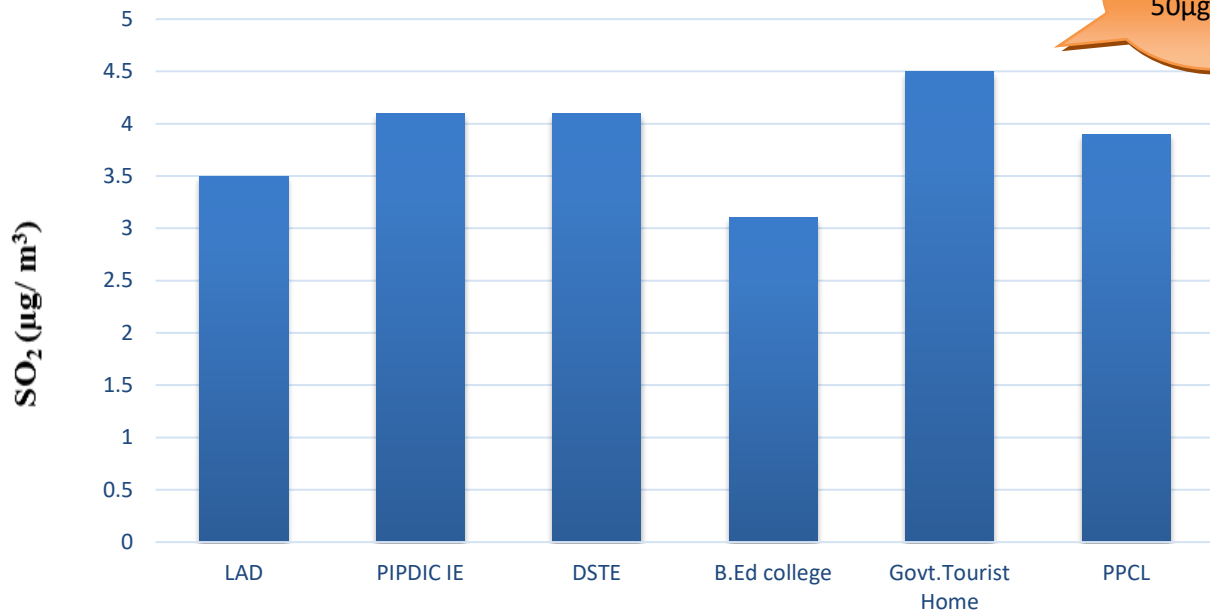
Sl.No	Location	Pollutant in $\mu\text{g}/\text{m}^3$		
		PM ₁₀	SO ₂	NO ₂
1	LAD	38	3.5	10.4
2	DSTE	46	4.1	12.9
3	PIPDIC	45	4.1	12.1
4	B.Ed college	35	3.1	6.1
5	Govt Tourist Home	43	4.5	8.1
6	PPCL	40	3.9	7.3
Standard		60	50	40

Annual Average Concentration of PM₁₀ for the year 2018



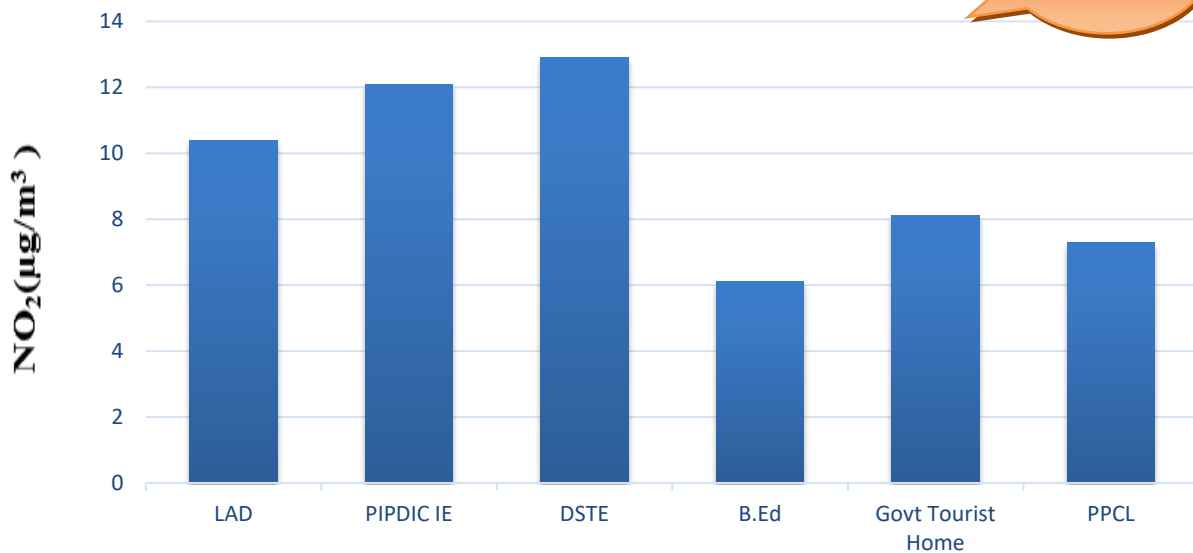
Annual Average Concentration of SO₂ for the year 2018

Standard:
50µg/m³



Annual Average of NO₂ for the year 2018

Standard:
40µg/m³



Observation and Results:

- The monitoring result reveals that 24 Hourly average concentration of Particulate Matter (Size less than 10 μm) - PM_{10} measured in all the six locations are within the prescribed standard limit of 100 $\mu\text{g}/\text{m}^3$
- Annual average concentration of PM_{10} measured in all the six locations are in the ranges from 35 – 46 ($\mu\text{g}/\text{m}^3$) which is within the prescribed standard limit of 60 $\mu\text{g}/\text{m}^3$
- The annual average concentrations of the pollutants viz., SO_2 & NO_2 in all the six locations are within the prescribed standard limits. One of the reasons for low levels of pollution in coastal cities like Puducherry is that it has excellent ventilation effects due to sea and land breezes which reduces pollution levels.

Air Quality Index

The calculated AQI values for 24 hourly average concentrations are categorized as good to Satisfactory for the year 2018 at all the six locations.