

Central Pollution Control Board, Delhi

Air Laboratory

Air Quality Bulletin - January 2016

PM_{2.5} is the prominent pollutant which continuously exceeds the standard. Pollution load from the sources / natural causes get influenced by the meteorological conditions. Concentration of PM_{2.5} measured at Continuous Ambient Air Quality Monitoring Stations (CAAQMS) in Delhi are as follows.

PM_{2.5} Concentrations (µg/m³) in January 2016

	Mean	Maximum*	Minimum*
IHBAS, Dilshad Garden	209	296	103
DMS, Shadipur	150	234	81
NSIT, Dwarka	185	272	94

*24 hourly averages

Mixing height and Wind speed

	Mean	Maximum*	Minimum*
Mixing height (m)	519	688	323
Wind speed (m/s)	1.9	3.1	1

*24 hourly averages

Wind and mixing height influences pollutant concentration. As measured by SODAR system and automatic weather station at Parivesh Bhawan, CPCB, Delhi mixing height was less than 200 m for 34.2% of time. Period of calm condition was not significant (considered as <0.5 m/sec. at 30 m height) and prominent wind directions in this month were W, SE & NW as compared to usual NW or W in this month.

Variation of daily mean PM_{2.5} concentration at three monitoring stations (Fig-I) and correlation of PM_{2.5} with mixing height (Fig-II) & wind speed (Fig-III) at IHBAS monitoring station (nearest station to Parivesh Bhawan) are given in following figures:

Fig-I: VARIATION OF PM2.5 CONCENTRATIONS AT 3 CAAQM STATIONS - JANUARY 2016

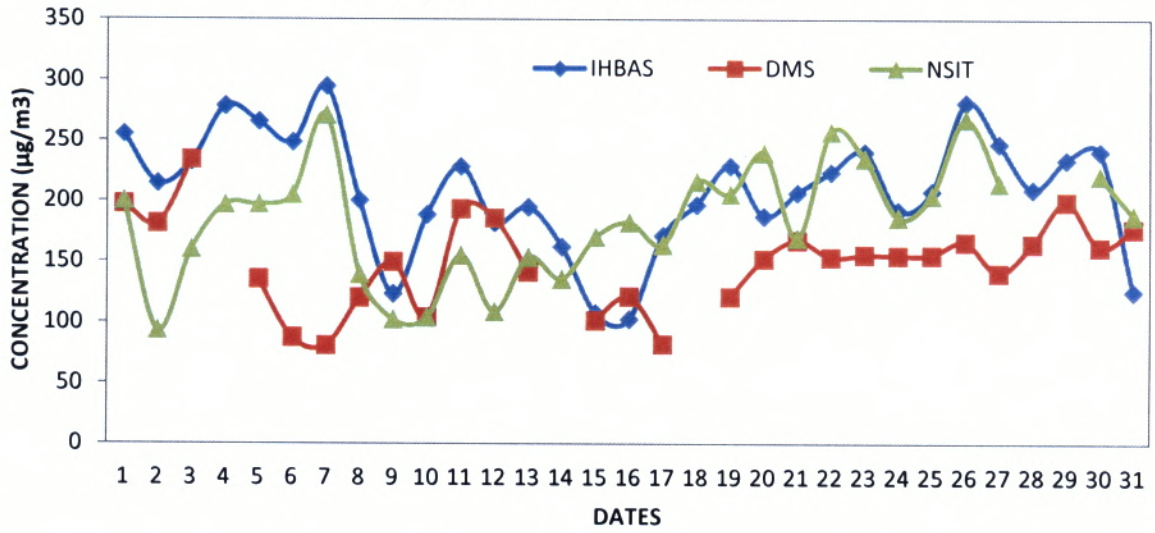


Fig-II: VARIATION OF PM2.5 CONCENTRATION AT IHBAS WITH MIXING HEIGHT - JANUARY 2016

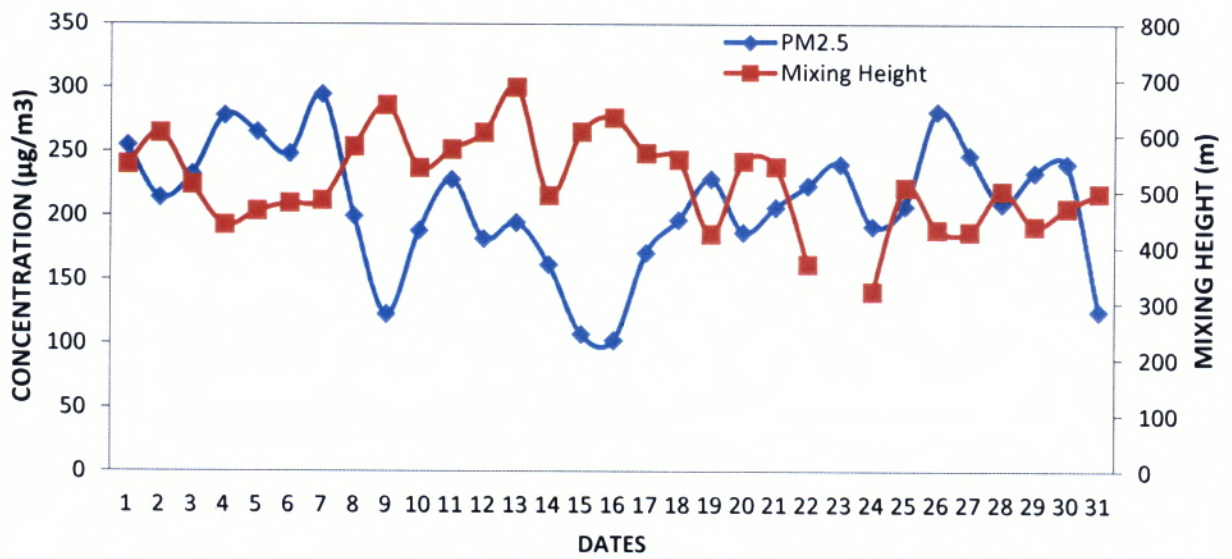


Fig-III: VARIATION OF PM2.5 CONCENTRATION AT IHBAS WITH WIND SPEED - JANUARY 2016

