

# Ambient Air Pollution Scenario in Bangalore City & Local Action Plans



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## AAQM results for the month of September-2018 in Bangalore city

Sl. No		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	NH <sub>3</sub> µg/m <sup>3</sup>	Pb µg/m <sup>3</sup>	CO mg/m <sup>3</sup>	AQI	
1	Veternary College, Hebbal	43.0	19.0	4.3	19.4	24.3	*	0.73	43.0	<b>Good</b>
2	Saneguravanahalli CAAQM	44.5	*	3.0	15.1	*	*	0.8	44.0	<b>Good</b>
3	Kazissonnenihalli,	84.0	*	2.0	32.0	25.0	0.133	*	84.0	Satisfactory
4	Rail Wheel factory, Yelahanka	97.0	*	2.0	32.0	26.0	0.077	*	97.0	Satisfactory
5	Swan Silk Pvt. Ltd., Peenya	82.0	38.0	2.0	31.0	27.0	0.202	*	82.0	Satisfactory
6	Urban Eco Park, Peenya	81.0	39.0	2.0	32.0	26.0	0.193	*	81.0	Satisfactory
7	Indhira Gandhi Children Health Care	84.0	*	2.0	31.0	25.0	0.024	*	84.0	Satisfactory
8	Victoria Hospital, K. R. Market	79.0	*	2.0	32.0	26.0	0.015	*	79.0	Satisfactory
9	Yeshwanthapura Police Station	87.0	41.0	2.0	31.0	26.0	0.202	*	87.0	Satisfactory
10	NIMHANS	45.0	19.0	8.2	57.9	39.2	*	0.75	72.0	Satisfactory
11	TERI Office, Domlur	94.0	*	2.0	32.0	27.0	0.053	*	94.0	Satisfactory
12	Banasawadi Police Station	84.0	*	2.0	29.0	27.0	0.042	*	84.0	Satisfactory
13	UVCE, K.R Circle	91.0	*	2.0	28.0	27.0	0.028	*	91.0	Satisfactory
14	Jayanagara 5 <sup>th</sup> Blcok.	54.0	22.0	8.9	47.0	17.3	*	0.88	59.0	Satisfactory
15	Kavika –Mysore Road,	71.0	31.0	7.9	26.6	12.6	*	0.80	71.0	Satisfactory
16	AMCO Batteries,	104.0	50.0	2.0	33.0	27.0	0.188	*	103.0	<b>Moderate</b>
17	City Railway Station CAAQM	105.2	*	7.8	34.1	*	*	1.2	103.0	<b>Moderate</b>
18	Central Silk Board, Hosur Road,	101.0	*	2.0	28.0	23.0	0.133	*	101.0	<b>Moderate</b>
19	Good (0–50) Minimal Impact Flyover	115.0	36.0			0.1	*	1.30	110.0	<b>Moderate</b>
20	Satisfactory (51–100) Minor breathing discomfort to sensitive people	106.0	*			5.0	0.073	*	104.0	<b>Moderate</b>
	Moderate (101–200) Breathing discomfort to the people with lung (City Average)	100.0	60.0							<b>Moderate</b>

Breathing discomfort to people on prolonged exposure

Respiratory illness to the people on prolonged exposure

Respiratory effects even on healthy people

# **PIL in Hon'ble High Court of Karnataka**

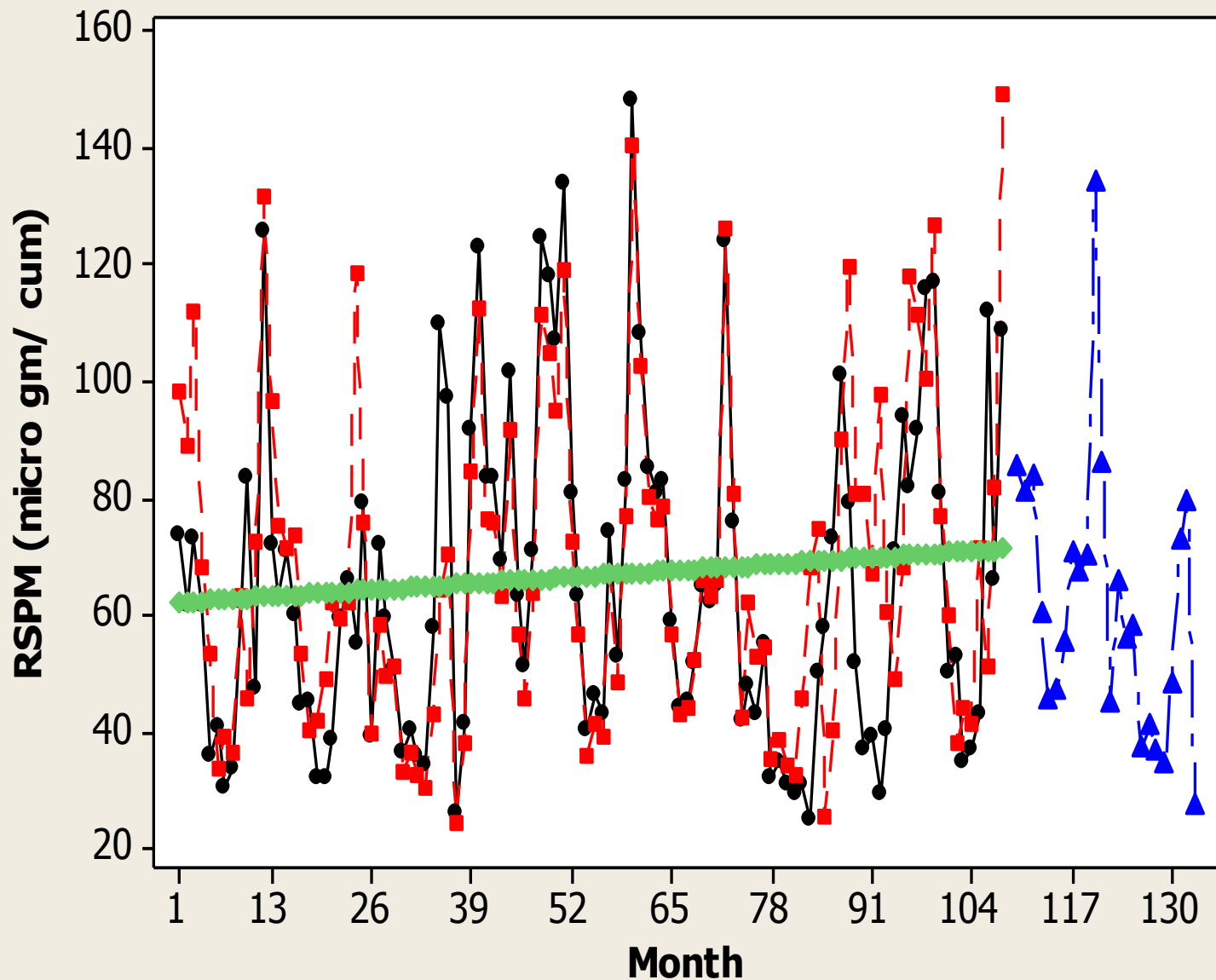
- Suo-Moto Public Interest Litigation WP No. 39432/2013.
- Board issued direction under Section 31(A) of the Air (Prevention and Control of Pollution ) Act, 1981 to BBMP, Traffic Police, Transport Commissioner and BDA to take steps to control air pollution and reduce noise levels in Bangalore . The Board has constituted Co- Ordination Committee, so far 18 meeting held (19.1.2018)

## **Directions to Transport Department :**

- **To restrict registration of new vehicles**
- To ban the entry of Heavy Motor Vehicles (HMTVs)
- To ban the use of two stroke vehicles within BBMP area.
- To ban auto rickshaws in central business district
- To ban use of more than 15 years old HMTVs
- **No PUC – no fuel**
- To impose heavy fine and confiscate shrill/ Air horns not confirming to MV Act.
- To plan for traffic regulation.
- Testing of Vehicular emission as well as emission testing centres.
- To convert to CNG
- Create mass awareness .

# AMCO BATTERIES RSPM (48)

Multiplicative Model



Accuracy Measures	
MAPE	24.489
MAD	13.618
MSD	390.993

It is also observed that the concentration of RSPM for this site is showing a moderate 16-20% increase in trend over 10 years. The reason might be resuspension of road dust, vehicular traffic, etc.

The Hon'ble NGT (PB), New Delhi order dated: 08.10.2018 in the original Application No.681 of 2018 released on August-15 2018

- The Hon'ble NGT, New Delhi order dated: 08.10.2018 has directed to draw Comprehensive Action Plan (CAP) to control air pollution at 4 non-attainment cities ( **Bangalore, Hubli- Dharwad , Davanagere and Gulbarga** to take step to improve the air quality of non- attainment cities.
- The Hon'ble NGT has directed to constitute six-member committee called “**Air Quality Monitoring Committee**”
- The Board has sent a letter to DEE, GoK on 31.10.2018 requesting to constitute “**Air Quality Monitoring Committee**” – **Shortly GO will be issued by GoK .**
- For Hubli- Dharwad , Davanagere and Gulbarga – Task Force Committee are constituted under the Chairmanship of Deputy Commissioner with line departments are the members
- The action plans shall include components like identification of source and its components considering sector like Vehicular pollution, industrial pollution, dust pollution, construction activities, garbage burning, agriculture pollution including pollution caused by burning of crop residue, residential and indoor air

# Action Plan (48 points) to improve the air quality in Bangalore city

- To review the action taken on 14 points, a meeting was held on 12.12.2017 under the Chairmanship of ACS, GoK and it was observed that on most of points action is already taken and felt that to have new action plans to mitigating air pollution .
- Next Task Force committee meeting will be held under the Chairmanship of Chief Secretary , GoK ( G.O issued)
- Hence, KSPCB proposed draft action plan for control of air pollution and presented to the 18<sup>th</sup> Co-ordination Committee held on 19.1.2018 , comprising of the line departments.
- The draft action points which are discussed in Co-ordination committee meeting, are sent to concerned departments and requested to verify the action plans, if any addition or deletions are required same may be incorporated .The suggestion/ response ( BMTCL, KSRTC, BMRCL and Police Dept ) and are incorporated in the action point.

# Proposed Action Plan for Control of Air Pollution in Bangalore City for next 5 years

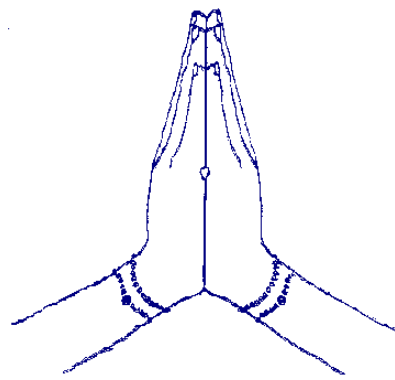
Sl. No.	Action points	Implementation period ( Short- Mid- Long )	Time Target for implementation	Responsible Agency
1	The complete ban of use of two stroke vehicles in Bangalore city	Long	Dec-2019	Transport Department
2	To ban more than 15 years old vehicles and 10 years of commercial vehicles in Bangalore city.	Long	Dec-2019	Transport Department
3	To check the calibration of emission monitoring equipments, housed in Emission Testing Centers (ETCs) once in six months to know the status of equipments.	Mid	June -2019	Transport Department

4	Launch extension drive against polluting vehicles form ensuring strict compliances and regulate the traffic	Short	Dec -2018	Transport Department
5	Installation of remote sensor based PUC system	Mid	June -2019	Transport Department
6	Steps to promote battery operated vehicles	Long	Dec -2019	Transport Department
7	Initiate steps for retrofitting of particulate filters in diesel vehicles	Long	Dec-2019	Transport Department
8	To carry out a survey to identify more vulnerable roads with respect to congestion so as to regulate the traffic.	Mid	June -2019	Police Dept. (Traffic)



9	To follow the lane discipline rules by stopping /parking of vehicles at designated bus bays/stop.	Short	Dec -2018	Police Dept. (Traffic)
10	Launch public awareness programme campaign for air pollution control, vehicle maintenance, minimizing the use of personal vehicles, lane discipline etc.	Short	Dec -2018	Police Dept. (Traffic)
11	Prevent parking of vehicles in non designated areas.	Short	Dec -2018	Police Dept. (Traffic)
12	To increase the fine to the vehicle owners ( Not drivers) where the visible smoke is emitting and noticed	Mid	June -2019	Police Dept. (Traffic)
13	To take action to remove dust/ silt from major roads regularly by deploying mechanical sweeping vehicles.	Short	Dec.-2018	BBMP

14	To initiate action plan for filling potholes and road cuttings to facilitate for smooth flow traffic.	Mid	June -2019	BBMP
15	To remove encroachment of footpath by hawkers in market place	Short	Dec.-2018	BBMP
16	To construct more number of multilevel vehicle parking facilities.	Long	Dec-2019	BBMP
17	To take action to cover the construction and demolition debris carrying through trucks and create/approve facility for re-processing of C and D waste.	Mid	Dec -2018	BBMP
18	To suppress the dust using treated water of domestic sewage from BWSSB sprinkling on the roads during night times in the areas wherever dust levels are high.	Short	Dec-2018	BBMP
19	Prepare plan for widening of roads and improvement of infrastructure for decongestion of road	Long	Dec-2019	BBMP



*Thank You*