

BRIHANUMBAI MUNICIPAL CORPORATION

Environment & Climate Change Department

DMC/Env. & CC./1011 date 25 NOV 2025

Subject: Standard Operating Procedure (SOP) for
implementation of GRAP for Air Pollution Mitigation

A meeting of Environment & Climate Change Dept. with Hon. Municipal Commissioner was held in the chamber of the Hon. Municipal Commissioner on 24.11.2025 to review the increasing AQI levels at certain Continuous Ambient Air Quality (CAAQM) stations across Mumbai and actions being taken by BMC. During the meeting, the need for immediate and coordinated mitigation measures was discussed, particularly with respect to major air pollution sources such as construction activities, open burning of waste, road dust resuspension, and wood/coal/diesel based bakeries. The matter regarding implementation of Graded Response Action Plan (GRAP) measures beyond the notified AQI thresholds was also discussed.

Accordingly, the Hon. Municipal Commissioner has directed that a Standard Operating Procedure (SOP) be followed to effectively address air pollution in Mumbai which is under:

- 1) GRAP Stage IV measures will be applied, when **City level AQI goes above 200 for consecutive three (3) days.**
- 2) **Individual CAAQMS** stations shall be monitored closely upon **crossing AQI 200**, and the following actions shall be undertaken:
 - (a) **From 200 to 300 AQI for individual CAAQM station:** Positive interventions like deep cleaning, road washing with water tankers, use of misting machines, strict control on open burning, closing of conventional fuel based unlicensed bakery units (within 2kms. radius of CAAQM Station) shall strictly be implemented to contain the AQI below 200. Also, strict compliance of 28 point guidelines shall be observed on the construction sites.
 - (b) **If the AQI at any CAAQM station remains above 300 for consecutive three (3) days:** All polluting units (within 2kms. radius of CAAQM Station) such as construction & redevelopment (demolition) sites, RMC plants, bakeries,

departmental construction works (BMC, SRA, MHADA, Metro etc.) shall be stopped until the AQI shows improvement.

All Assistant Commissioner and concerned departments shall ensure strict compliance with the above SOP.

- Encl. : 1. List and address of CAAQM stations
2. GRAP Document



Avinash Kate
D.M.C (Env. & C.C.)

Assistant Commissioner (A to T) Ward

Ch. Eng. (SWM)

Ch. Eng. (SWD)

Ch. Eng. (Roads & Traffic)

Ch. Eng. (Bridges)

Ch. Eng. (SO)

Ch. Eng. (SP)

Ch. Eng. (MSDP)

Ch. Eng. (WSP)

Ch. Eng. (BM)

Ch. Eng. (Coastal Road)

Director (ES&P)

DMC (Zone I to VII)

Sr. No	Zone	Wards	Station Name	Station Address	Station Operated by
1	Zone I	A	Colaba	Indian Metcorological Department, Nanabhai Moosa Marg, Near RC	SAFAR by IITM
2		A	Colaba, Mumbai	Sewage Treatment Plant premises, Near Afghan Church, SBS Road,	MPCB
3		E	Byculla	Veer Jijamata Udyan, Byculla (E)	BMC
4		E	Mazgaon	ST Joseph Bapista Garden, Bandarwada hill Reservoir, Magaon	SAFAR by IITM
5	Zone II	F/N	Sion	Sion Hospital	MPCB
6		F/S	Sewri	Sewri-Koliwada BMC School Complex, Sewri (East)	BMC
7		G/S	Worli	Lal Bahadur Shastri Garden, 60, Worli Hill Road, Siddharth Nagar,	SAFAR by IITM
8		G/S	Worli	National Environmental Engineering Research Institute (NEERI) premises , 89-B, Dr. Annie Besant Road	MPCB
9	Zone III	H/E	Bandra Kurla Complex, Mumbai	BKC Traffic junction, Nandadeep Garden Kalanagr, Bandra (E)	SAFAR by IITM
10		K/E	Andheri	2, Guru Hargovindji Road, S B Singh	SAFAR by IITM
11		H/E	Bandra Kurla Complex,	Near Asian Heart hospital, BKC	MPCB
12		H/E	Kherwadi- Bandra East,Mumbai	Government Polytechnic Campus, 49, Ali Yavar Jung Marg,	MPCB
13	Zone IV	K/W	Chhatrapati Shivaji Intl. Airport (T2)	Chhatrapati Shivaji International Airport Premises, Terminal-2, Near Gate no: 6, Mumbai- 400099	MPCB
			Vile Parle	M/s HBT/Cooper Hospital & Medical Collage, Bhakti Vedanta Swami Marg, Juhu Scheme Vileparle-West, M	MPCB
14		P/N	Malad	Malad Malavani Residential Area, Near Fire Station, Malad (W)	SAFAR by IITM
15		P/N	Mindspace- Malad West	APJ Abdul Kalam Vanoudyan, Near Interface bldg, Link Road Malad (W)	MPCB
17	Zone V	L	Kurla	Phoenix Market City Mall premises, LBS Marg, Kurla West, Mumbai- 400070	MPCB
18		M/E	Chembur	TISS Library Deonar Govandi (E), Chembur.	SAFAR by IITM
19			Govandi	Shivaji Nagar BMC Hindi School No.2, Govandi (East)	BMC

20			Chembur	CTS no.345,346,347,349, Near Municipal school, Near Mahul village, Chembur – 400 071	MPCB
21	Zone VI	N	Ghatkopar	New Pumping Station Ghatkopar, Eastern Express Highway, Ghatkopar	BMC
22		S	Bhandup	Water Treatment Plant Bhandup Complex	SAFAR by IITM
23			Powai	IIT-Mumbai campus, Powai, Mumbai-400076	MPCB
24		T	Mulund West	M/s Johnson and Johnson premises, LBS Marg, Mulund, Mumbai-400080	MPCB
25	Zone VII	R/C	Borivali	CTI & RC, BMC, Abhinav Nagar, Behind National Park, Borivali East-400066	SAFAR by IITM
26			Borivali East	Near Lion Safari, Sanjay Gandhi National Park, Borivali East, Mumbai- 400066	MPCB
27		R/S	Kandivali	Charkop Maternity Home, Kandivali (East)	BMC
28			Kandivali East	M/s Mahindra and Mahindra Ld. Premises, Western Express Highway, Kandivali-East, Mumbai-400101	MPCB

Appointment of Authorities for implementation of Graded Response Action Plan (GRAP) in the State of Maharashtra under different Air Quality Index categories

An Application bearing No.681/2018 have been registered on the basis of a News Item published in “Times of India” under the heading “NCAP with multiple timelines to clear air in 102 cities to be released around August 15” before the Hon’ble National Green Tribunal, Principal Bench, New Delhi.

The matter was recently reviewed by the Hon’ble NGT vide order dated 20/11/2019, wherein, the Hon’ble NGT has directed to develop Emergency Response System including Graded Response Action Plan (GRAP) for the State of Maharashtra.

The air quality of the State of Maharashtra with monitoring data available till date, is mostly observed to be in the range of satisfactory (PM2.5: 31-60µg/m³, PM10: 51-100µg/m³) to moderately polluted (PM2.5:61-90µg/m³, PM10: 101-250µg/m³), for which actions are included in non-attainment city action plans. A detail of Graded Response Action Plan for implementation under different Air Quality Index (AQI) categories and Responsible Authorities is as under:

S.N.	Actions	Responsible Authority
I	Emergency/ Sever+ (ambient PM2.5or PM10concentration value of 300µg/m ³ or 500µg/m ³ respectively persist for 48 hours or more)	
1	Stop entry of truck, heavy vehicles into the city	Concerned Traffic Police, RTO
2	Stop construction activities	Concerned Municipal Corporation and concerned Regional Officer of MPCB
3	Introduce odd and even scheme for private vehicles based on license plate no. and minimize exemptions	Concerned Traffic Police, RTO
4	Task force to take decision on any additional steps including shutting of any activities/ institutes/ offices	Members of Task Force Committee appointed vide Government Resolution dated 18/09/2019 of City level implementation committee.

II	Severe (ambient PM _{2.5} or PM ₁₀ concentration value is 250+ µg/m ³ or 430+µg/m ³ respectively)	
1	Close major polluting industrial units like brick kilns, hot mix plants, stone crusher, thermal power plant etc.	Concerned Regional Officer/Sub-Regional Officer, Maharashtra Pollution Control Board
2	Intensify public transport services. Introduce differential rates to encourage off-peak travel.	Concerned Municipal Corporation/Council, Transport Department
3	Increase frequency of mechanized cleaning of road and sprinkling of water on roads	Concerned Municipal Corporation/Council
III	Very Poor (ambient PM _{2.5} or PM ₁₀ concentration value is between 121-250µg/m ³ or 351-430 µg/m ³ respectively)	
1	Stop use of diesel generator sets	Concerned Regional Officer/Sub-Regional Officer, Maharashtra Pollution Control Board / Concerned Municipal Corporation/Council
2	Enhance parking fee by 3-4 times	Concerned Municipal Corporation/Council, Transport Department
3	Increase bus/metro services by augmenting contract buses and increasing frequency of service	Concerned Municipal Corporation/Council, Metro Rail Corporation
4	Alert in newspapers/TV/radio to advise people with respiratory and cardiac patients to avoid polluted areas and restrict outdoor movement.	Concerned Regional Officer/Sub-Regional Officer, Maharashtra Pollution Control Board, Concerned Municipal Corporation/ Council
IV	Moderate to poor (ambient PM _{2.5} or PM ₁₀ concentration value is between 61-120 µg/m ³ or 101-350 µg/m ³ respectively)	
1	Stringently enforce/stop garbage burning in landfills and other places and impose heavy fines on person responsible	Concerned Municipal Corporation
2	Stringently enforce rules for dust control in construction activities and close non-compliant sites	Concerned Regional Officer / Sub-Regional Officer of MPCB, Concerned Municipal Corporation
3	Stringently enforce pollution control regulations in industries	Concerned Regional Officer/Sub-Regional Officer, Maharashtra Pollution Control Board
4	Deploy traffic police for smooth traffic flow at identified vulnerable areas	Concerned Traffic Police
5	Strict vigilance and enforcement of PUC norms	Concerned RTO, Traffic
6	Do periodic mechanized sweeping on roads with heavy traffic and water sprinkling also on unpaved roads	Concerned Municipal Corporation
7	Information dissemination Social media, mobile Apps should be used to inform people about the pollution levels, contact details of control room,	Concerned Municipal Corporation, MPCB

	enable them to report polluting activities/sources to the concerned authorities, and actions that will be taken by government based on the level of pollution.	
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The city level implementation committee of NCAP constituted vide Government Resolution No NCA 2018/CR.196(2)/T.C.2, dtd. 18/09/2019 in respective Non-Attainment cities will be responsible for implementation of emergency response action plan based on GRAP in respective of Non-attainment cities.