

Graded Response Action Plan (GRAP) for Pimpri Chinchwad

1. The GRAP for PCMC has been classified into four phases: Phase 1 - "Moderate to Poor", Phase 2 "Very Poor", Phase 3 - "Severe" and Phase 4 - "Severe+ or Emergency".
2. Actions under Phase II, III and IV of the GRAP shall be invoked at least three days in advance of the AQI reaching to the projected levels of that stage, based on the prevalent AQI and the forecast AQI levels as per the SAFAR app which is based on forecast from IITM or MPCB on a day-to-day basis.
3. Actions under previous phases shall be continued in addition to the actions under the phase that is envisaged to be invoked. For example, when restrictive actions under Phase 3 are invoked, it shall be in addition to the actions under Phase 1 and Phase 2.
4. The actions will continue to be implemented for minimum 15 days from the date of invoke or till the date substantial change in AQI is observed.
5. The Task Force at PCMC for Air Pollution shall meet in advance and take necessary punitive actions in consultation with experts and issue necessary orders for invoking the GRAP phases. The Task Force shall take all steps towards effective implementation of the GRAP.
6. The Task Force may decide to revise the GRAP or add any additional measures, make improvements and exceptions to the GRAP schedule as per the prevalent situation and AQI levels.
7. All the penalties levied for violations shall be as per the Annexure A.

AQI level	Possible Health Impacts
Moderate to poor	Breathing discomfort to the people with lung disease such as asthma and discomfort to people with heart disease, children and older adults
Very Poor	Breathing discomfort to people on prolonged exposure and discomfort to people with heart disease with short exposure
Severe	Respiratory illness to the people on prolonged exposure. Effect may be More pronounced in people with lung and heart diseases
Severe + (Emergency)	Respiratory effects even on healthy people and serious health impacts on people with lung/heart diseases

PIMPRI CHINCHWAD

AQI categories and breakpoint concentrations						
	AQI Category	AQI	PM2.5 (µg/m3)	PM10 (µg/m3)	Sox (µg/m3)	NOx (µg/m3)
Phase 1	Moderate to Poor	101-300	61-120	101-350	81-800	81-280
Phase 2	Very Poor	301-400	121-250	351-430	801-1600	281-400
Phase 3	Severe	401-500	250+	430+	1600+	400+
Phase 4	Severe + (Emergency)	501+	300+	500+	1700+	500+

Phase 1: Moderate to Poor (AQI – 101-300)			
	Action to be taken	Concerned Department	Concerned Government Agency
1	Stringently enforce/stop garbage burning in landfills and other places and impose heavy fines on the person responsible	Zonal Office and Health department	Pimpri Chinchwad Municipal Corporation
2	Ensure regular lifting of Municipal Solid Waste (MSW) (including meat and fish waste), Construction & Demolition (C&D) waste, and Hazardous wastes from dedicated sites and transfer them to the respective processing plants. Ensure that no waste is dumped illegally on open land. Heavy penalties shall be levied on the offenders.	Health department	Pimpri Chinchwad Municipal Corporation
3	Stringently enforce rules for dust control in construction activities and close non-compliant sites	Building Permissions and all Civil Departments	Pimpri Chinchwad Municipal Corporation/MPCB
4	Stringently enforce pollution control regulations in industries through Pollution Control Board monitoring. Ensure strict penal/ legal action against non-compliant and illegal industrial units.	Environment dept.	MPCB, MIDC
5	Ensure regular lifting and proper disposal of industrial waste from industrial and non-development areas and in areas where unscientific processing and disposal of industrial waste is carried out.	Environment dept. and Health dept.	MPCB, MIDC
6	Stringently enforce all pollution control regulations in brick kilns, stone crushers and RMC plants	Zonal Office and Environment dept.	MPCB, Collector office
7	Do periodic mechanized sweeping on roads, particularly on roads with heavy traffic and water sprinkling every two days	Zonal Office and Health dept.	Pimpri Chinchwad Municipal Corporation
8	Advanced Traffic Management System with synchronisation of traffic signals to be done at major corridors. Deploy traffic police for smooth traffic flow at all identified corridors with heavy traffic and congestion-prone intersections.	Smart City, Projects//Urban Mobility	Traffic Police
9	Fire Cracker Norms: For Citizen: <ol style="list-style-type: none"> 1. Bursting of crackers on Diwali, New Year or any other festive season is only permissible from 8pm to 10 pm 2. Purchase of only green firecrackers (non-polluting) are allowed. 3. During the cracker bursting, children should be accompanied by elders to avoid accidents. 	Monitoring by Fire department and ward officers	Police

	<p>4. The firecrackers should not be used in parking area, heavy traffic roads and environmental sensitive zones.</p> <p>For Vendors</p> <ol style="list-style-type: none"> 1. The sale of Green Crackers having noise level up to 125 decibel is only permissible. These crackers, which do not contain harmful compounds like barium salts and antimony, will be available through licensed traders. The storage, distribution, sale, and use of conventional firecrackers have been prohibited. 2. Firecracker shop should be preferably located in the open ground and uncongested area. 3. In case if the shop located in the neighbourhood, it should be adjacent to min 9-meter-wide road and should not encroach upon footpaths and roads. 4. The vendors should be equipped with fire safety equipment's to prevent accidents during fire emergency. <p>Vendors should avoid using any single use plastic for selling of firecrackers and instead use cellophane papers, which are made from natural wood and are biodegradable and compostable.</p>		
10	<p>Vehicles are a major source of harmful pollutants in Pimpri Chinchwad Municipal Corporation as per the Emission Inventory Report for Pune Metropolitan Region, 2020 by SAFAR India. Citizens are directly exposed to the harmful pollutants coming out from polluting vehicles.</p> <p>PCMC will regulate the use of polluting petrol, diesel, CNG and LPG vehicles by charging 'Environment Protection Fees' or 'पर्यावरण संरक्षण शुल्क'.</p> <p>Following polluting vehicle categories will have to pay daily CAF for moving within PCMC municipal limits:</p> <p>Heavy and medium goods, and construction vehicles (2 axle and more), 2-wheelers, light motor vehicles (private cars) & light goods vehicles (2 axle): Below Bharat Stage (BS), BS-1, BS-2 & BS-3 petrol, diesel, CNG, LPG vehicles will pay the CAF. Close to 90% of pollution comes from above categories.</p> <p>The ECC will range between Rs.200 - Rs.1500 per day based on the vehicle type.</p> <p>BS-4 & BS-6 of above-mentioned vehicle categories are exempted. Other exemptions include passenger and goods auto-rickshaws, public buses, all light and heavy passenger vehicles such as taxis (including private aggregator taxis), private buses, tractors, emergency, and</p>	Projects/Urban Mobility/Smart City	Pimpri Chinchwad Municipal Corporation, Traffic Police, RTO

	utility vehicles such as ambulances, fire-fighting vans, garbage trucks, electric and electric hybrid vehicles.		
11	Augment public transport services by increasing frequency and ensure adequate feeder and para-transit services	Projects/Urban Mobility	PMPML, Pune Metro, Pimpri Chinchwad Municipal Corporation
12	Information dissemination, social media, mobile apps should be used to inform people about the pollution levels, contact details of control room, enable them to report polluting activities/sources to the concerned authorities, and actions that will be taken by the government based on the level of pollution.	PRO, Smart City	Pimpri Chinchwad Municipal Corporation

Phase 2: "Very Poor"			
(AQI- 301-400)			
	Action to be taken	Concerned Department	Agency responsible
1	Mechanical/vacuum-based sweeping of roads to be carried out on a daily basis.	Zonal Offices and Health dept.	Pimpri Chinchwad Municipal Corporation
2	Ensure water sprinkling along with use of dust suppressants (at least every alternate day) on roads to arrest road dust especially at hotspots, heavy traffic corridors, vulnerable areas (before peak hours) and proper disposal of dust collected in designated sites.	Zonal Offices and Health dept.	Pimpri Chinchwad Municipal Corporation, Traffic Police (Identify roads with heavy traffic and provide information to PCMC for further action)
3	All demolition sites, construction sites, RMC should follow dust suppression mechanisms such as sprinkling and follow necessary steps as per MPCB guidelines	Building Permissions, all Civil departments, Environment dept and Zonal Offices	Pimpri Chinchwad Municipal Corporation
4	Control the use of diesel generator sets by ensuring that DG Sets are not used as regular sources of power supply that is they are used only in the case of power outages	Electrical dept	MPCB, Pimpri Chinchwad Municipal Corporation
5	Enforce use of electrical/CNG based crematoriums	Electrical dept	MPCB, Pimpri Chinchwad Municipal Corporation
6	Control the use of coal/firewood-based Tandoors in Hotels, Restaurants and open eateries. Ensure hotels, restaurants and open eateries use only clean fuels- electricity / gas-based appliances. Relevant MPCB and FDA norms shall be followed.	Zonal Offices, Udyog Dhandha Parvana	Pimpri Chinchwad Municipal Corporation

7	<p>Notify hospitals to prepare for an increase in respiratory illness cases. Ensure adequate supply of oxygen and medicines.</p> <p>Hospitals shall report the respiratory cases to the Medical Officer of Health.</p>	Medical dept.	Pimpri Chinchwad Municipal Corporation
8	<p>Restrict parking in air pollution hotspots* and enhance parking fees by 3-4 times in congested commercial areas to reduce usage of personal vehicles.</p>	Projects/Urban Mobility	Traffic Police, Pimpri Chinchwad Municipal Corporation
9	<p>Regulate the movement of polluting vehicles in Pimpri Chinchwad Municipal Corporation limits by charging Environment Compensation Charge (ECC). The ECC will range between Rs.200 - Rs.1500 per day based on the vehicle type.</p> <p>Below BS-4 petrol, diesel, CNG, LPG vehicles and visibility polluting vehicles shall be discouraged.</p> <p>Following polluting vehicle categories will have to pay daily ECC for moving within PCMC municipal limits: Heavy and medium goods, and construction vehicles (including 4 and more than 4-wheeler vehicles), 2-wheelers, light motor vehicles (private cars) & light goods vehicles (2 axle).</p> <p>Vehicle Exempted from ECC: Passenger and goods auto-rickshaws, public buses, all light and heavy passenger vehicles such as taxis (including private aggregator taxis), private buses, tractors, emergency and utility vehicles such as ambulances, fire-fighting vans, garbage trucks, electric and electric hybrid vehicles.</p> <p>A system to identify vehicles using specific indicators on the vehicles may be used as per MoRTH guidelines. All the vehicles and the Inspection and Certification centres in the city need to adhere strictly to the Central Motor Vehicle Rules.</p>	Projects/Urban Mobility	Pimpri Chinchwad Municipal Corporation, Traffic Police, RTO
10	<p>Information dissemination, social media, and mobile apps should be used to inform people about the pollution levels, contact details of the control room, enable them to report polluting activities/sources to the concerned authorities, and actions that will be taken by the government based on the level of pollution.</p>	PRO, Smart City	Pimpri Chinchwad Municipal Corporation

Phase 3: "Severe"			
(AQI- 401-500)			
	Action to be taken	Concerned Department	Agency responsible

1	Close RMC plants, brick kilns, hot-mix plants, stone crushers and other highly polluting units or as applicable locally	Zonal Offices	Collector Office, MPCB, Pimpri Chinchwad Municipal Corporation
2	Coal and Firewood based oven furnace is not permitted In PCMC area. Ensure bakeries use only electricity / clean fuel gas-based appliances.	Zonal Offices	MPCB, Pimpri Chinchwad Municipal Corporation
3	Increase the frequency of Canon Dust Suppression Vehicle and Dust Suppressants (Road washer) and Road Sweeping. Identify road stretches with high dust generation.	Environment dept./Urban Mobility, Health dept	Pimpri Chinchwad Municipal Corporation
4	Promote Non-Motorised and EV Zones around schools, hospitals and other high-traffic demand areas/streets such as markets, and transit stations. No petrol, diesel, CNG, or LPG vehicles will be allowed.	Projects/Urban Mobility	PCMC, Traffic Police
5	Alert in newspapers/TV/radio to advise people with respiratory and cardiac patients to avoid polluted areas and restrict outdoor movement.	PRO	Pimpri Chinchwad Municipal Corporation

Phase 4: "Severe+ or Emergency"			
AQI- 500+			
	Action to be taken	Concerned Department	Agency responsible
1	Stop entry of polluting trucks, heavy vehicles into the city (Except for essential commodities)	Projects/Urban Mobility	Traffic Police, RTO
2	Stop construction and demolition activities	Building Permission dept. , Civil Department	Pimpri Chinchwad Municipal Corporation
3	PCMC in consultation with the state government and MPCB, may take a decision on shutting down schools and permitting work from home for public and private offices.	Environment dept, Education dept	Pimpri Chinchwad Municipal Corporation, Collector Office

4	<p>Regulate the movement of polluting vehicles in Pimpri Chinchwad Municipal Corporation limits by charging Environment Compensation Charge (ECC). The ECC will range between Rs.200 - Rs.1500 per day based on the vehicle type.</p> <p>Following polluting vehicle categories will have to pay daily ECC for moving within PCMC municipal limits: Pre BS-6 vehicles including passenger and goods auto-rickshaws, all light and heavy passenger vehicles such as taxis (including private aggregator taxis), private buses, and tractors.</p> <p>Vehicle Exempted from ECC: Public buses, Emergency and utility vehicles such as ambulances, fire-fighting vans, garbage trucks, electric and electric hybrid vehicles</p> <p>A system to identify vehicles using specific indicators on the vehicles may be used as per MoRTH guidelines. All the vehicles and the Inspection and Certification centres in the city need to adhere strictly to the Central Motor Vehicle Rules.</p> <p>All the vehicles and the Inspection and Certification centres in the city need to adhere strictly to the Central Motor Vehicle Rules.</p>	Projects/Urban Mobility	Pimpri Chinchwad Municipal Corporation, Traffic Police, RTO
5	During peak hours, public transport shall provide a 5-10% discount on the regular fare to promote its utilisation.	Projects/Urban Mobility	Pimpri Chinchwad Municipal Corporation, Metro, PMPML

Note:

- Based on continuous monitoring of AQI levels for three consecutive days, PCMC reserves the right to either revoke or invoke GRAP phases.

**PIMPRI CHINCHWAD
MUNICIPAL CORPORATION**

(Shekhar Singh)
Municipal Commissioner
Pimpri Chinchwad Municipal Corporation

**Annexure A: Proposed Penalties for various waste and air quality violations in
Pimpri Chinchwad (per instance)**

S.No	Particulars	Existing Fine rates (Rs.)	Proposed new fine rates (Rs.)
1	For delivering waste that is not segregated and not stored in separate bins:		
	a) Households/Commercial establishment		
	- 1st instance	300	330
	- Every repeated instance	500	550
	b) bulk generator		
	- 1st instance	5,000	5,500
	- Every repeated instance	15,000	16,500
2	For burning of waste	5,000	5,500
3	For not cleaning-up after public gathering / event within 4 hours.	Forfeiture of cleanliness deposits + Rs. 10,000 fine	Forfeiture of cleanliness deposits + Rs. 11,000 fine
4	Unsanitary/Littering of roads/public places		
	a) small littering	500	550
	b) mass littering E.g.: Dumping of waste by trucks and tempos etc.	50,000	55,000
5	Spitting in public places	1,000	1,100
6	Open urination	500	550
7	Open defecation	1,000	1,100
8	Defacement of Municipal/public property (Small stickers etc.)		
	a) Small stickers etc	500	550
	b) Large stickers, posters etc.	5,000	5,500
9	No onsite Composting (Bulk waste generator)		
	a) 1st instance	5,000	5,500
	b) Every repeated instance	15,000	16,500
10	Missing dustbins in commercial establishments	500	550
	Defilement in an open plot	2,000	2,200
11	Presence of mosquito breeding sites		
	a) at household establishment	1,000	1,100
	b) commercial establishment)	2,000	2,200
	c) buildings under construction, malls, theatres, large hospitals etc.)	10,000	11,000
12	Incineration of waste		
	a) At a small level	5,000	5,500
	b) At a larger level	25,000	27,500
13	Use of banned plastics		
	a) first instance	5,000	5,500
	b) second instance	10,000	11,000
	c) third instance	25,000	27,500
14	Dumping of Construction and Demolition waste on the streets and public places	3,000/ton	4,000/ton
15	Disposing of biomedical waste in common waste or on streets/public places	35,000	38,500
16	For any construction violations as per MPCB guidelines	Rs. 10/sq.m	Rs. 100/sq.m of Built up area

S.No	Particulars	Existing Fine rates (Rs.)	Proposed new fine rates (Rs.)
17	Non-compliance of consent to operate conditions at Brick kiln, RMC, stone crusher etc.	--	10,000
18	Industrial pollution	--	
	a) Release of untreated waste from industrial premises to nearby areas and waterbodies	--	1 st instance 10,000 2 nd instance 15,000 3 rd instance 20,000
	b) Non-compliance of air pollution measures	--	1 st instance 10,000 2 nd instance 15,000 3 rd instance 20,000
	c) Burning of industrial waste by unauthorized establishments like scrap vendors	--	1 st instance 25,000 2 nd instance 30,000 3 rd instance 35,000
		After third instance, legal notice will be issued	
19	Transport of C&D waste without covering or relevant measures	--	5,000
20	Fire cracker Fines: <ul style="list-style-type: none"> The fire department and ward officers will monitor the sell and use of permissible green firecrackers in the city. The Explosives Substance Act will be applicable upon anyone found selling and using banned firecrackers. The vendor needs to register with fire department and compliance with norms of selling green crackers 	The Indian Penal Code (IPC) provides for a fine of Rs 200 and/or jail for 6 months against those who burst crackers.	. Rs 200 which could go up to Rs 5,000 and a jail sentence of six months to three years against those who do not follow the norms as per fire crackers policy of PCMC

Recommended ECC Charge & fines

Modified PCMC GRAP ECC Charges

GRAP Phase	Motorcycle & Mopeds	Private Cars	Taxis, Autorikshaw & 3W Good Vehicles	Schools Vans, Midi Buses & Tractors	Light & Medium Goods Vehicles (Upto 2 axles)	Heavy Goods Vehicles, Private buses and Construction (More than 2 axles)
1 (Daily charges for BS 1,2 & 3 – Petrol, Diesel, CNG, LNG vehicles)	₹100	₹200	Exempted	Exempted	₹500	₹750
2 (Daily charges BS 1,2, 3 & 4 – Petrol, Diesel, CNG, LNG vehicles)	₹100	₹200	Exempted	Exempted	₹500	₹750
3 (Daily charges for BS 1,2,3 & 4 – Petrol, Diesel, CNG, LNG vehicles)	₹200	₹500	Exempted	Exempted	₹1000	₹1500
4 (Daily charges for BS 1,2,3 & 4 – Petrol, Diesel, CNG, LNG vehicles)	₹200	₹500	₹500	₹1000	₹1000	₹1500

Note: PMPML buses, MSRTC buses, Electric & Hybrid Vehicles are exempted through all the GRAP phases.

- Note:** The penalty may increase or decrease based of severity of air pollution incidence.

(Shekhar Singh)
Municipal Commissioner
Pimpri Chinchwad Municipal Corporation