



**KAMARAJ IAS ACADEMY**  
Only IAS Academy by Grandson of "Perunthalaivar Kamarajar"

# Graded Response Action Plan

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Revised GRAP to deal with adverse air quality scenario

A graded Response Action Plan is a **set of emergency measures that kick in to prevent further deterioration** of air quality once it reaches a certain threshold.

It is based on a plan that was submitted by the Central Pollution Control Board (CPCB) in November 2016. The GRAP was **first notified in January 2017** by the Ministry of Environment, Forest and Climate Change.

The **Environment Pollution (Prevention & Control) Authority (EPCA)** has directed **Delhi and neighbouring States to implement air pollution control measures under very poor and severe category air quality** of the Graded Response Action Plan (GRAP) from 15th October 2020.

GRAP includes the measures which will be taken by different government agencies to **prevent worsening of Air Quality of Delhi-NCR and prevent PM10 and PM2.5 levels to go beyond the 'moderate' national Air Quality Index (AQI) category.**

If air quality reaches the severe+ stage, GRAP talks about **shutting down schools and implementing the odd-even road-space rationing scheme.**

The plan requires action and coordination among 13 different agencies in Delhi, Uttar Pradesh, Haryana and Rajasthan (NCR areas).









Dust from the **(Construction & Demolition) C&D activities is a major and consistent source** of air pollution and contributes adversely to the spike in PM2.5 and PM10 levels in the NCR.

Use of treated water to mitigate large quantities of dust generated at C&D sites through use of **anti-smog guns, sprinklers etc.** with prescribed **wet suppression, wind breakers, dust barrier screens, covering of construction material and C&D debris, proper disposal of C&D wastes** including transportation in covered vehicles etc. are some of the steps that are essentially to be followed by C&D projects in the NCR.

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CATEGORY	ACTION PLAN
 <b>Moderate to Poor</b> <b>PM2.5—61-120 µg/m<sup>3</sup></b> <b>PM10—101-350 µg/m<sup>3</sup></b>	<ul style="list-style-type: none"> <li>➤ Stop garbage burning, impose heavy fines</li> <li>➤ Enforce pollution regulations in all industries</li> <li>➤ Do periodic mechanised road sweeping</li> <li>➤ Stop plying of visibly polluting vehicles</li> <li>➤ Enforce SC order on diversion, ban on crackers</li> <li>➤ Ensure fly ash ponds are watered every alternate day from Mar – May</li> <li>➤ Use apps to inform people and register complaints</li> </ul> 
 <b>Very Poor</b> <b>PM2.5—121-250µg/m<sup>3</sup></b> <b>PM10—351-430 µg/m<sup>3</sup></b>	<ul style="list-style-type: none"> <li>➤ Stop use of diesel gensets</li> <li>➤ Enhance parking fee by 3-4 times</li> <li>➤ Increase bus and Metro services</li> <li>➤ Stop use of coal/firewood in hotels and restaurants</li> <li>➤ RWAs to provide electric heaters to security staff to stop bonfires</li> <li>➤ Issue media alerts and advisories</li> </ul>  
 <b>Severe</b> <b>PM2.5—250 µg/m<sup>3</sup></b> <b>PM10—430µg/m<sup>3</sup></b>	<ul style="list-style-type: none"> <li>➤ Close hot mix plants, stone crushers</li> <li>➤ Shut down Badarpur power plant and maximise generation from natural gas-based plants</li> <li>➤ Intensify public transport</li> <li>➤ Mechanised cleaning of road and sprinkling of water</li> </ul> 
 <b>Emergency</b> <b>PM2.5—300µg/m<sup>3</sup></b> <b>PM10—500 µg/m<sup>3</sup></b> <i>(persist for 48 hours or more)</i>	<ul style="list-style-type: none"> <li>➤ Stop entry of trucks except those carrying essential commodities</li> <li>➤ Stop construction</li> <li>➤ Introduce odd-even scheme without exemptions</li> <li>➤ Task Force to decide on additional steps</li> </ul> 