

17th September, 2021

दिल्ली सरकार
आप की सरकार



युद्ध,
प्रदूषण के विरुद्ध

Construction & Demolition Sites :
Controlling Dust Emissions
Sensitisation meeting by Hon'ble
Minister Environment, GNCTD

Like previous years, all agencies will implement GRAP in Delhi as per categories

Air quality category

Moderate to Poor

PM_{2.5}: 61-120
PM₁₀: 101-350

Very Poor

PM_{2.5}: 121-250
PM₁₀: 351-430

Severe

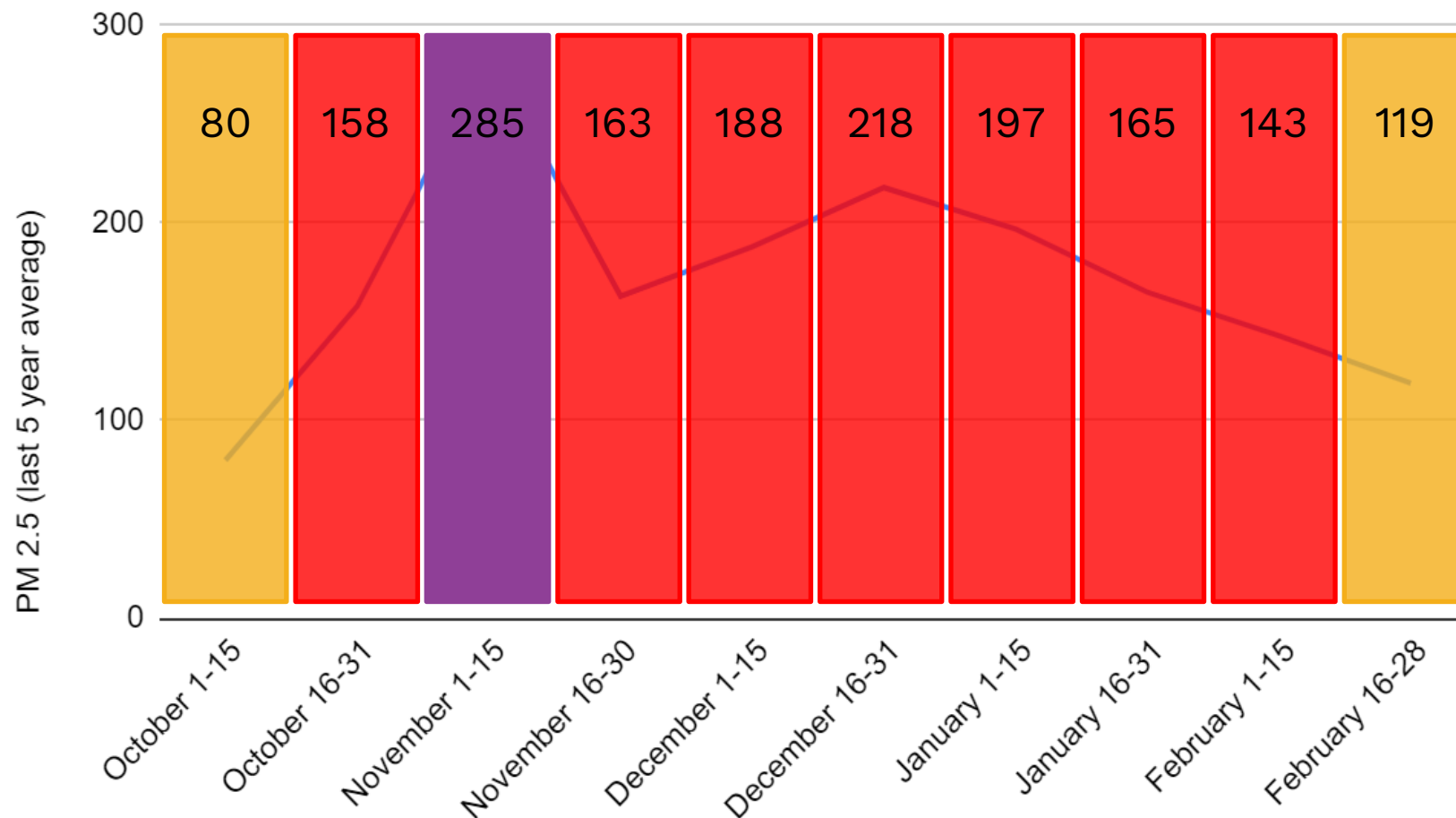
PM_{2.5} >250
PM₁₀ >430

Severe+

PM_{2.5} >300 (48 hrs)
PM₁₀ >500 (48 hrs)

PM 2.5 (5 year average)

(September 2016 to August 2021)



If air quality is in a higher category than estimated, then actions to be taken as per higher category

Main sources of air pollution



Dust – Road,
Construction and
Demolition

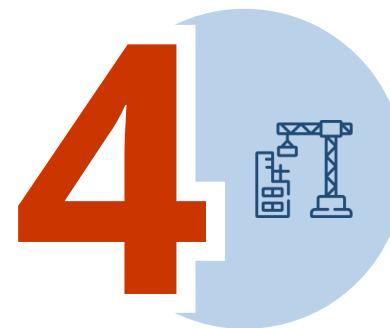


Vehicular pollution

Measures for dust emission control



Demolition
management



Operations



Material handling



C&D Waste
Management



Material storage



Vehicle movement,
routes & emission
from vehicle

Measures for demolition management

1

Debris during demolition



- Designing layout of site to minimize fugitive dust generation potential, including access roads, entrance and exits, storage piles, vehicle staging areas
- Site be screened with appropriate screens or sheet

2

Removal of materials from site



- Materials should be removed from the site right after finishing the task. Prolonged storage of construction debris on site or exposure to wind should be avoided

Measures for demolition management

3 Before and during demolition



- Applying treated water to mitigate dust generation
 - Anti smog guns, water pills, water cannons, hose, fire hydrants, sprinklers
- Water/ chemical suppressant spraying should be carried out prior to and during demolition

4 Crushing of material for reuse, transportation or disposal



- Activities like crushing should be sited as far away as possible from sensitive receptors , eg crushing, screening

Measures for material handling

Always keep the number of handling operations to a minimum by ensuring that dusty material isn't moved or handled unnecessarily

Keep material handling areas and vehicle staging areas clean and free from dust

Use of scaffolding sheets/ nets, wind fencing for dust control

Use of scaffolding sheets/ nets, wind fencing for dust control

Material needs to be removed from the site as soon as possible. Planned schedule of delivery of landscaping materials in order to minimize the storage time on site. Prolonged storage of construction and demolition debris on site or exposure to wind should be avoided

Use static sprinklers, hand held hoses and other watering methods, as necessary

Measures for material storage

Debris & construction material



- Store in covered space
- Reduce wind-blown dust generation by using scaffolding sheets/ nets, wind fencing for dust control
- Tarpaulin, plastic, agrished nets fences / screens

Storage location



- Store materials or stockpiles away from the site boundary and residential, commercial, educational buildings and places of public access
- Proper shape storage piles so that they do not have steep sides or faces

Measures for operations



Cutting



Grinding



Drilling



Sawing



Trimming



Planning



Sanding

01

Pre-wash work surfaces; Screen off work areas; and sweeping away

02

Spraying water, preferably from a water efficient spray pump, over the material as it is being cut greatly reduces the amount of dust generated

03

Local exhaust ventilation should be used where possible

Measures for C&D Waste Management

Storage



- All areas for storing C&D wastes / construction material to be demarcated and preferably barricaded particularly those materials that have potential to be dust borne
- Store any materials away from residential, commercial and educational spaces
- Water sprinkling / fine spray from nozzles to suppress dust re-suspension at site

Loading/ unloading



- Areas where loading / unloading (fugitive dust) activities to be demarcated and located in such a way that dust dispersal is minimized

Deposition of construction waste



- Get the waste deposited at nearby C&D plant for processing
- Ensure that there is no littering or illegal dumping of waste.

Measures for Vehicle movement, routes & emission from vehicle

Vehicle movement



- Ensure loading bay is covered
- Wash vehicle underbody and tyres before entering and leaving the site
- Plan movement of material in a way to minimize delay between delivery and use
- Ensure loading height is minimized by the use of chutes
- Road cleaning and water sprinkling should be carried out on a daily basis
- Ensure vehicle has Pollution Under Control certification

C&D Site Self Audit Portal

- ✓ For all C&D sites > 500 Sq. m
- ✓ Created under the direction of Commission for Air Quality Management (CAQM)
- Project proponents have to register and submit self audit report of dust control measures to DPCC



Delhi Pollution Control Committee

Self Declaration: Dust Control Audit (To be filled by all projects in which dust is generated)

Site Registration

For uploading self declaration audit sheet for dust mitigation in industrial, commercial and institutional projects.

ALREADY REGISTERED?

[Click Here to Login](#)

Contact Details :

Project's Name *

Address of Project Site

Address 1 *

Address 2 *

Pin Code *

Latitude *

Longitude *

Project Type *

Name of Project Proponent*

Office Address of Project Proponent

Address 1 *

Address 2 *

Pin Code *

Activate Windows
Go to Settings to activate Windows.

Anti Smog Gun Guidelines



Built up area

Number of anti smog gun

Upto 20,000 Sq. m

01

20,000-40,000 Sq. m

02

40,000-60,000 Sq. m

03

60,000-80,000 Sq. m

04

01

Dust/wind breaking walls of appropriate height around the periphery of the construction site.



02

Installation of Anti Smog Gun(s) (for >20,000 sqmt built up area).



03

Tarpaulin or green-net on scaffolding around the area under-construction and the building.



04

All vehicles including carrying construction material & construction debris of any kind should be cleaned & wheels washed.



05

All vehicles carrying construction material & construction debris should be fully covered & protected.



06

All construction debris and construction material of any kind should be stored on the site and not dumped on public roads or pavements.



07

No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.





08

No grinding and cutting of building materials in open area. Wet-jet should be used in grinding and stone cutting.



09

Unpaved surfaces and areas with loose soil should be adequately sprinkled with water to suppress dust.



10

Roads leading to or at construction sites must be paved and blacktopped i.e. metallic roads (for >20,000 sqmt built up area).



11

Construction and demolition waste should be recycled on-site or transported to authorized recycling facility & due record of the same should be maintained.



12

Every worker working on construction site & involved in loading, unloading & carriage of construction material & construction debris should be provided with dust-mask to prevent inhalation of dust particle.



13

Arrangement should be provided for medical help, investigation & treatment to workers involved in the construction of building & carry of construction material & debris relating to dust emission.

14

Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.



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Thanks