



Department of Environment,  
Govt. of NCT of Delhi



International Day  
of Clean Air  
for blue skies

**Management interventions  
to mitigate**

# **Air Pollution in Delhi**

**February, 2025**



# Air Quality in Delhi

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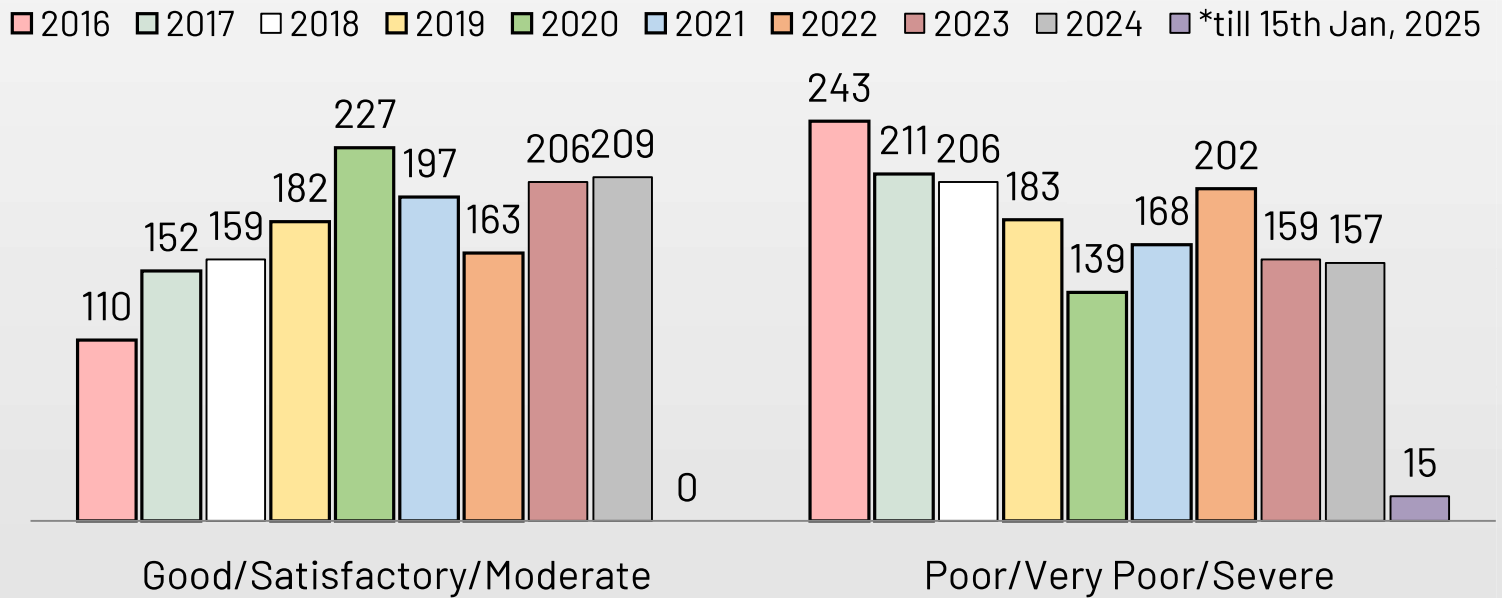




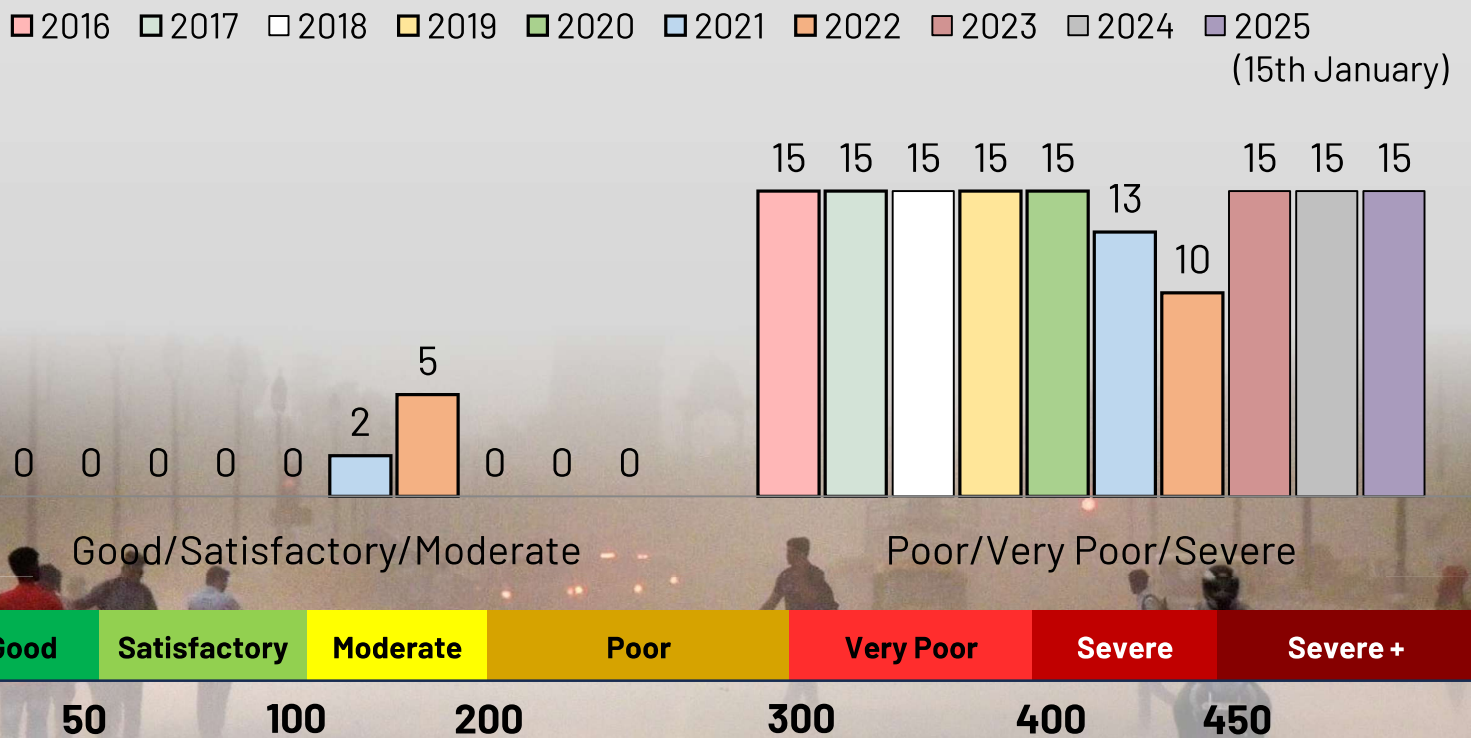


# 01 Days According to Air Quality Index in Delhi (2016-25)

## Days according to Air Quality Index in Delhi (2016-25)



## Comparative Status of Days according to AQI of Delhi from 1<sup>st</sup> January to 15<sup>th</sup> January (2016-25)



# 02 Days According to Air Quality Index in Delhi (2016-24)

## Period : October to February (Winter Season)

2016-2017

2017-2018

2018-2019

2019-2020

2020-2021

2021-2022

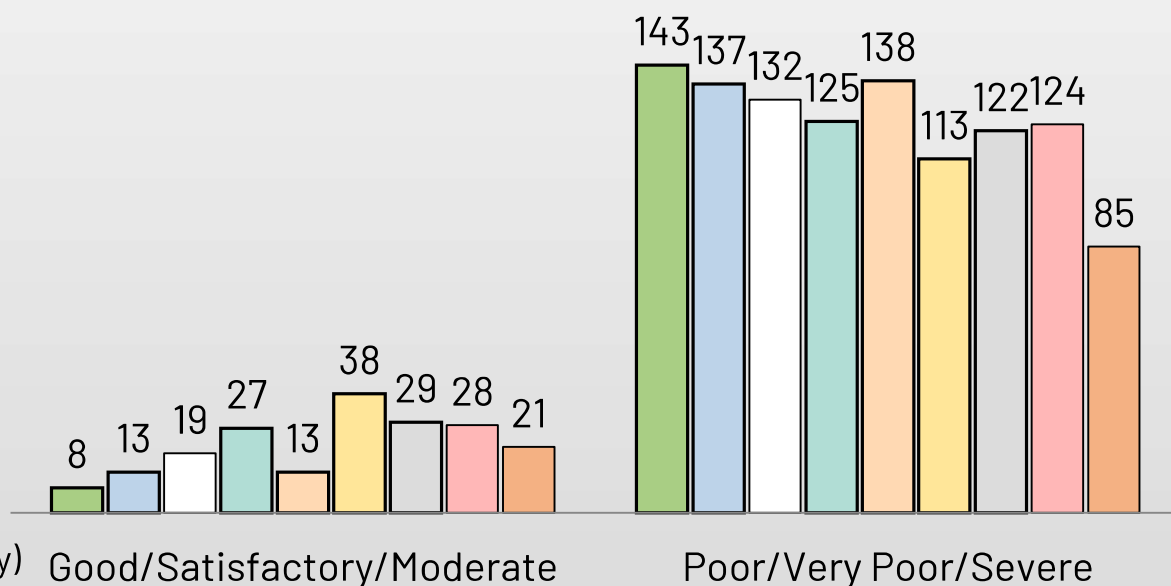
2022-2023

2023-2024

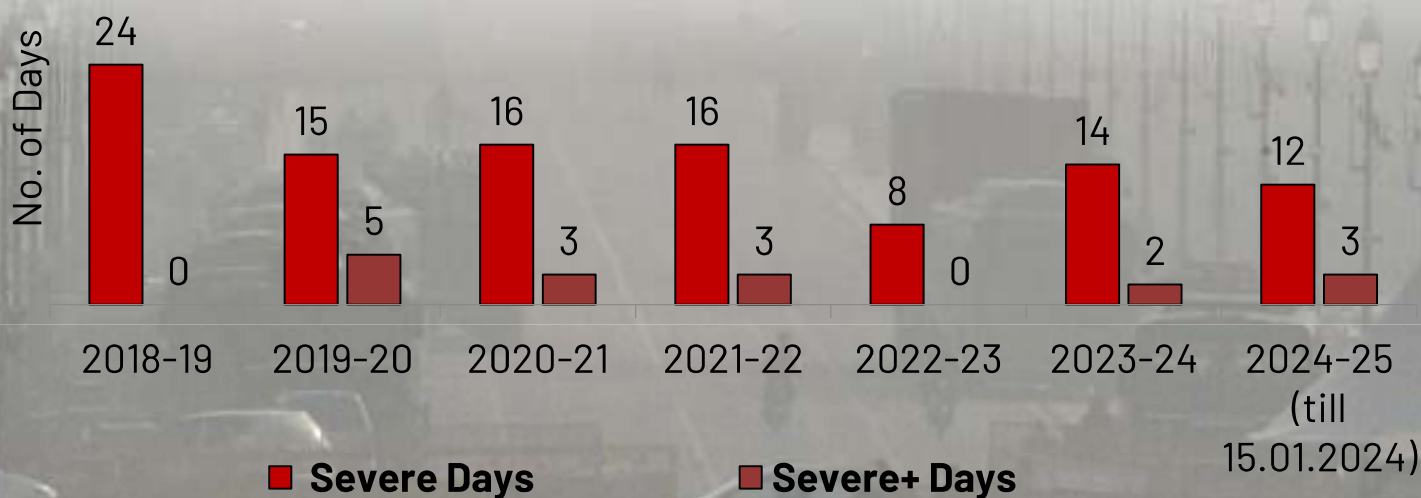
2024-2025

(till 15th January)

**Days according to Air Quality Index in Delhi  
During Winter Season October to February (2016-2024)**



**Severe and Severe + : October to January (Winter Season)**



Good

Satisfactory

Moderate

Poor

Very Poor

Severe

Severe +

50

100

200

300

400

450

# 03 Monitoring 8 Parameters Strong Monitoring System

Monitoring 08 ambient air quality parameters on real time basis at 40 locations [24 DPCC, 6 CPCB, 9 IITM/IMD, 1 MHUA].

DPCC air monitoring station data is being utilized by CPCB for analyzing the AQI of the city.

| Monitoring 8 Parameters |                   |
|-------------------------|-------------------|
| 1                       | PM <sub>2.5</sub> |
| 2                       | PM <sub>10</sub>  |
| 3                       | Sulphur dioxide   |
| 4                       | Nitrogen dioxide  |
| 5                       | Ozone             |
| 6                       | Ammonia           |
| 7                       | Benzene           |
| 8                       | Carbon monoxide   |



Delhi State Environmental Health Bulletin circulated every day during Oct – March for daily monitoring by HODs [AQI, predominant pollutants, wind speed, actions taken on air polluting activities on a daily basis].

# 04 Research based actions

## Research studies

Source Apportionment Study of NCT of Delhi - IIT Kanpur in 2015 and The Energy Research Institute (TERI) in 2018.

Source apportionment of ambient particulate matter during winter season in Delhi - IIT-Madras, 2018

Research findings are regularly incorporated in management strategies

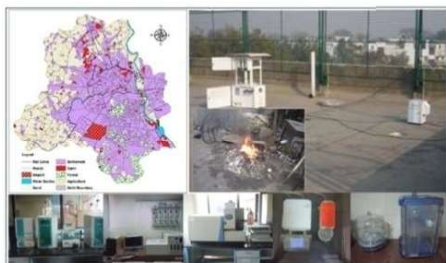
- Top contributors: Vehicles, Road dust, Construction Dust, Biomass burning and Industrial sources
- Combustion sources, vehicles, biomass burning and MSW burning are consistent sources in winter

### Comprehensive Study on Air Pollution and Green House

#### Gases (GHGs) in Delhi

(Final Report: Air Pollution component)

Submitted to  
Department of Environment  
Government of National Capital Territory of Delhi  
and  
Delhi Pollution Control Committee, Delhi



Mukesh Sharma; PhD and Onkar Dikshit; PhD  
Professors, Department of Civil Engineering  
Indian Institute of Technology Kanpur, Kanpur- 208016

January 2016

SOURCE APPORTIONMENT OF AMBIENT  
PARTICULATE MATTER DURING WINTER  
SEASON IN DELHI  
Sponsored by  
**DELHI POLLUTION CONTROL COMMITTEE  
(DPCC)**  
Government of National Capital Region, New Delhi

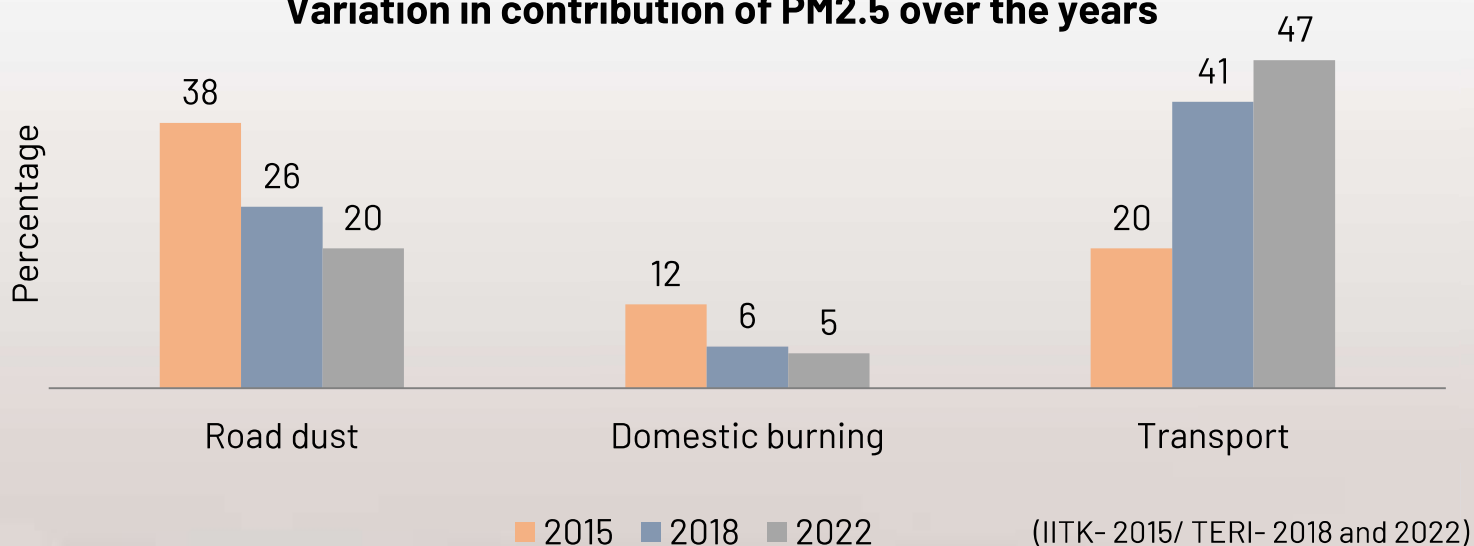


Prepared By  
Department of Civil Engineering  
Indian Institute of Technology Madras  
&  
Department of Civil Engineering  
Indian Institute of Technology Delhi

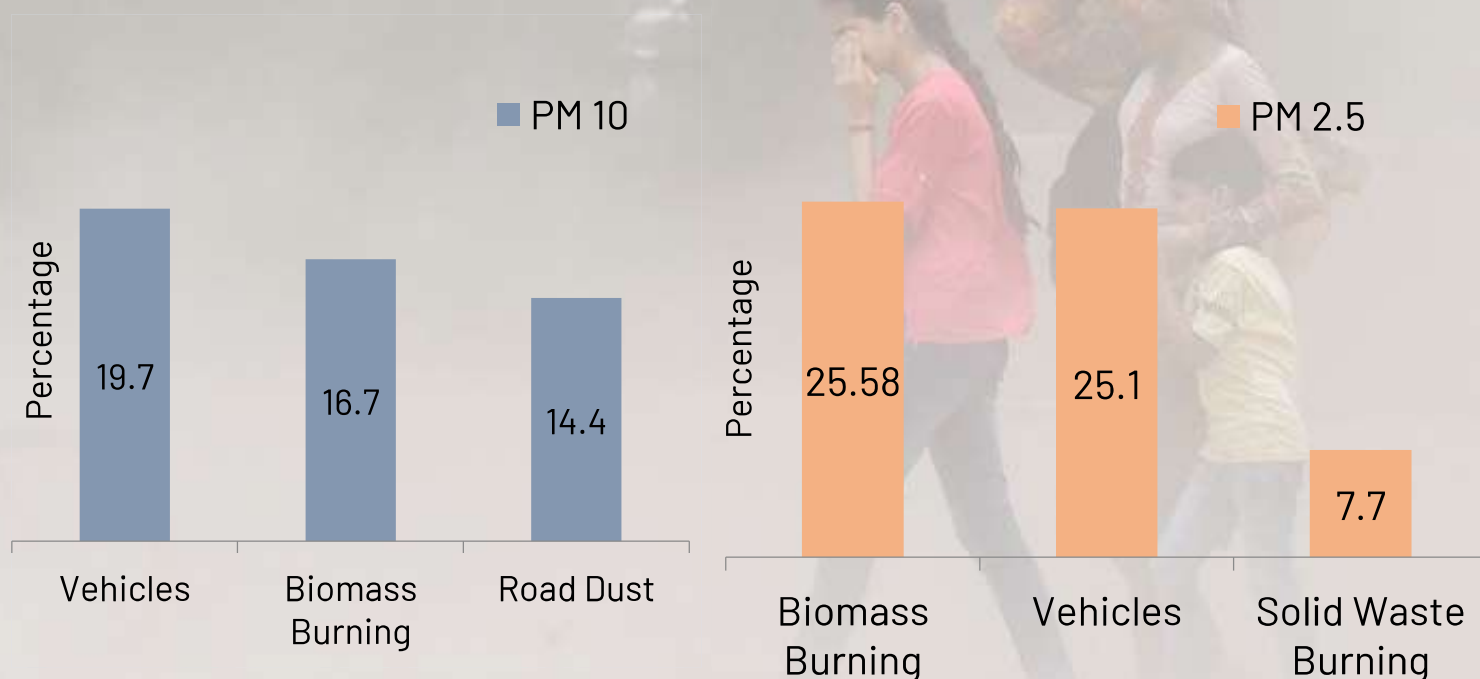


# 05 Emission inventories

**Variation in contribution of PM<sub>2.5</sub> over the years**



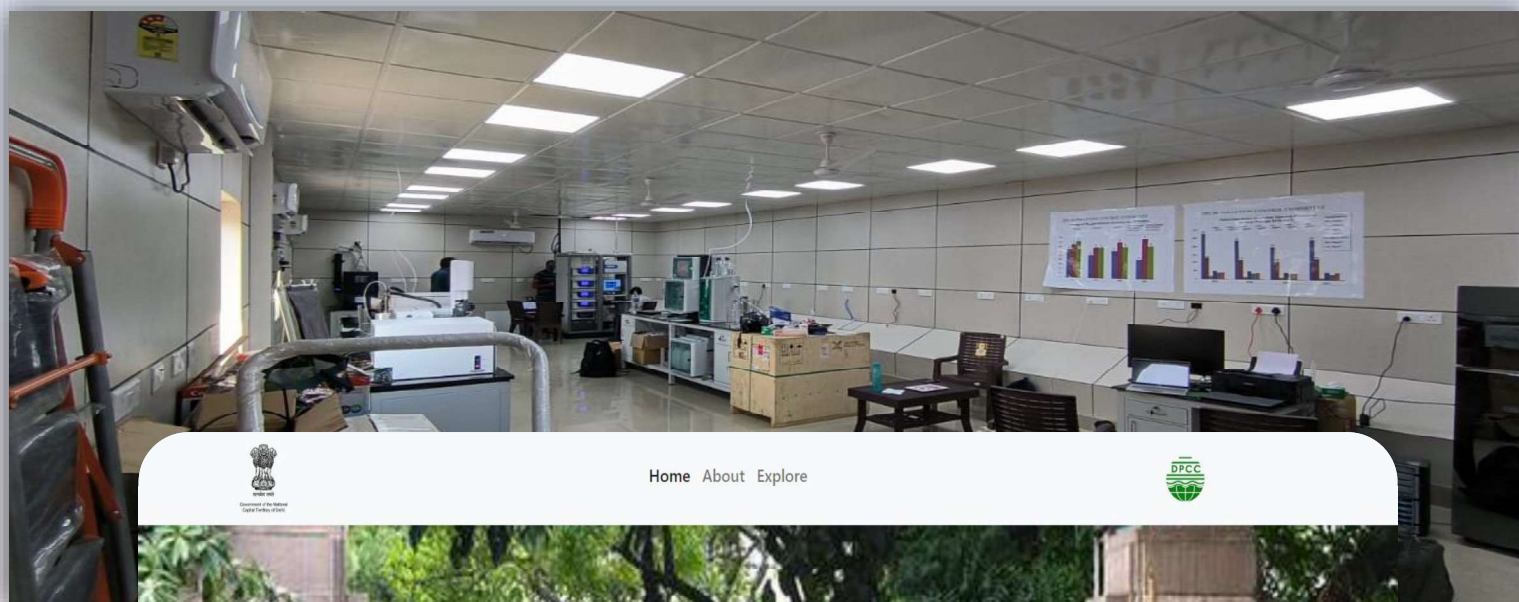
**PM<sub>10</sub> and PM<sub>2.5</sub> Percentage contribution from top 3 Specific Sources (Winter months)**



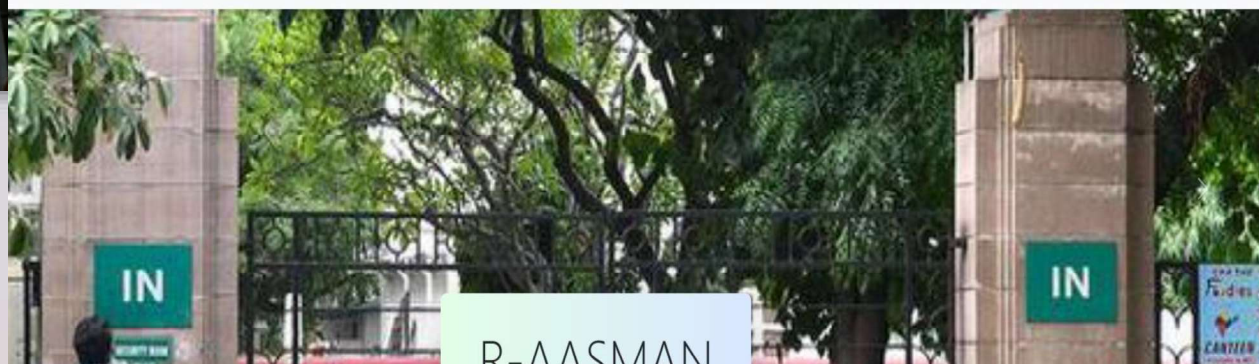


# 06 Strengthening Scientific Evidence Based Policy & Action

## Real Time Source Apportionment



Home About Explore



### R-AASMAN

Real-time Advanced Air Source Management Network

Source Apportionment and Forecasting on real time basis including emission inventory: Agreement, with IIT Kanpur led consortium signed on 22.10.2021.

Establishment of one Super site AQS, one mobile air laboratory and unmanned spatial monitoring networks at 5 locations.

# 07 Implementation of Graded Response Action Plan (GRAP)

**GRAP invoked in advance** based on prediction of air quality forecasting models (invoked on 14<sup>th</sup> Oct). Revised GRAP dated 13.12.2024 is enforced this Winter 2024 – 25.

## Total no. of Days in GRAP stage (2024-25) (till 12.01.2025)

| I | II | III | IV |
|---|----|-----|----|
| 7 | 46 | 10  | 26 |

### Stage I

**Poor**

AQI

**201-300**

14.10.2024 to  
20.10.2024

### Stage II

**Very**

**Poor**

AQI

**301-400**

21.10.2024 to  
13.11.2024,  
05.12.2024 to  
15.12.2024,  
27.12.2024 to  
02.01.2025 and  
05.01.2025 to  
09.01.2025

### Stage III

**Severe**

AQI

**401-450**

14.11.2024 to  
16.11.2024,  
24.12.2024 to  
16.12.2024,  
03.01.2025 to  
04.01.2025 and  
09.01.2025  
onwards

### Stage IV

**Severe+**

AQI

**> 450**

17.11.2024 to  
04.12.2024 and  
16.12.2024 to  
23.12.2024



# OUTLINE

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01

Dust management from construction & demolition activities

02

Mitigation of dust from road and open areas

03

Control of fires incidences in sanitary landfill sites

04

Prevention of open burning of MSW and biomass

05

Electric/EV mobility

06

Vehicular Pollution Control

# OUTLINE

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07

Augmentation of Public transport

08

Effective Grievance Redressal

09

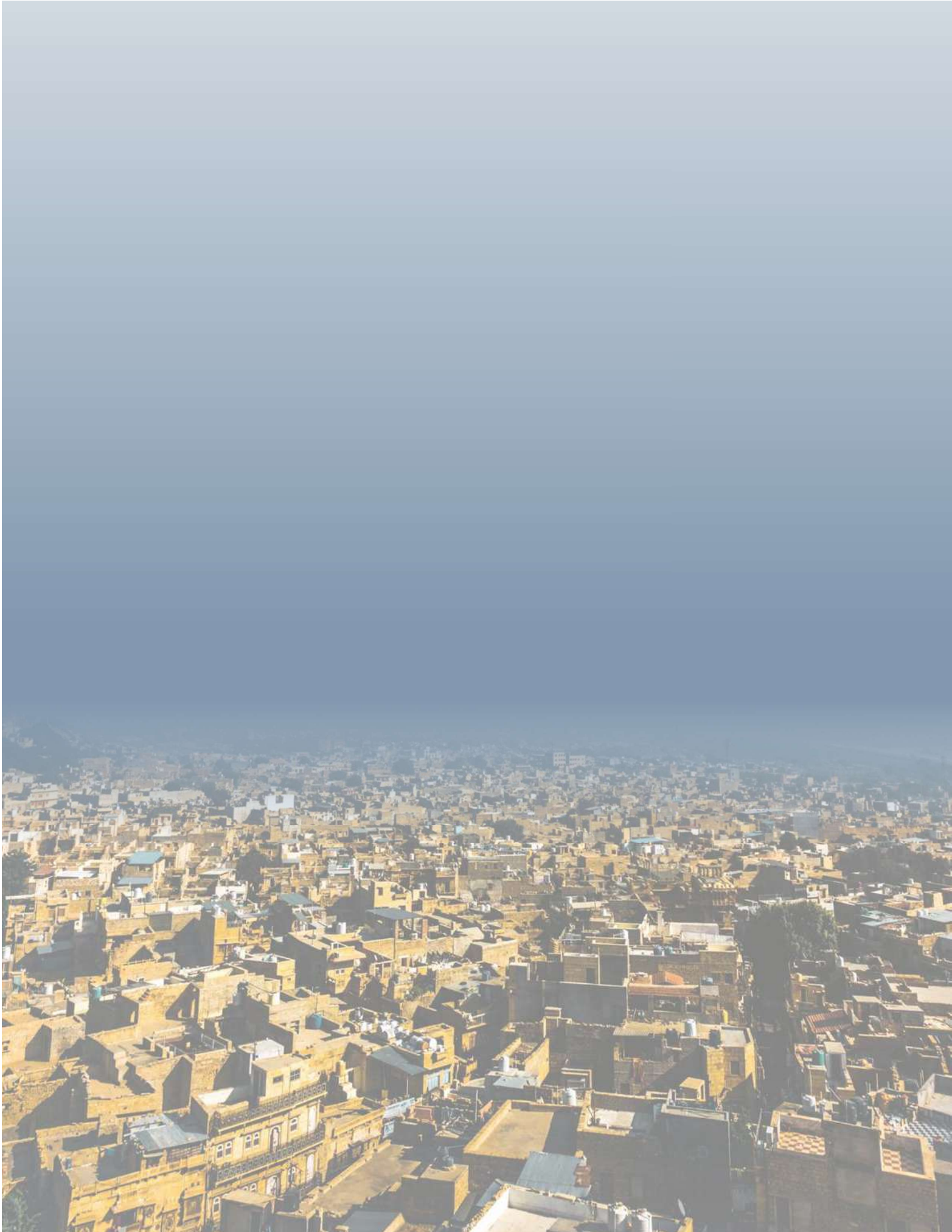
Greening and plantation programme

10

Abating pollution from DG sets

11

Other actions under GRAP Stage III and Stage IV



# 01

## Dust Management From Construction & Demolition Activities

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## 8

# Dust Management From Construction & Demolition Activities

## Strategies

01

Development of extensive  
C&D waste processing  
facilities

03

Monitoring through C&D web  
portal

02

Deployment of ASGs at C&D  
sites

04

Enforcement

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[Dust Pollution Control Self Assessment, DPCC](#)


### Dust Pollution Control Self Assessment, DPCC

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- [NGT Orders](#)
- [Supreme Court Directions Dated 13-01-2019](#)
- [Tutorials](#)



All project proponents, contractors, builders, persons, or authorities undertaking construction and demolition activity in National Capital Territory

# 9

## Development of Extensive C&D Waste Processing Facilities

C&D waste generation approx. 6000 TPD in Delhi.

5 operational C&D waste processing facilities in Delhi with total capacity of 5150 TPD including Facility at Jahangirpuri (Burari) (2000 TPD) has been revamped and commissioned in July, **2023**.

Other processing facilities are namely Bakkarwala (1000 TPD), Ranikhera (1000 TPD), Shastri Park (1000 TPD)

More facilities proposed : 1000 TPD **Tehkhand, Okhla.**

Units in  
TPD

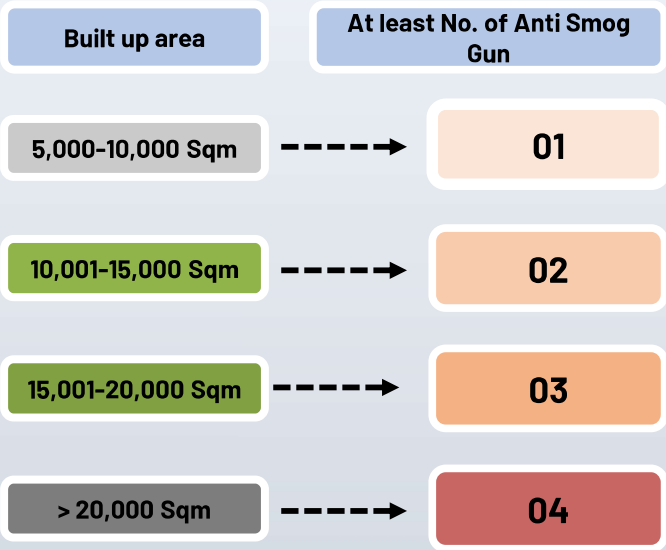


# 10 Deployment of ASGs at C&D Sites

## CAQM’s Standards/ Guidelines to mitigate C&D dust

Dust mitigation measures issued by Environment department, GNCTD to all project proponents, contractors.

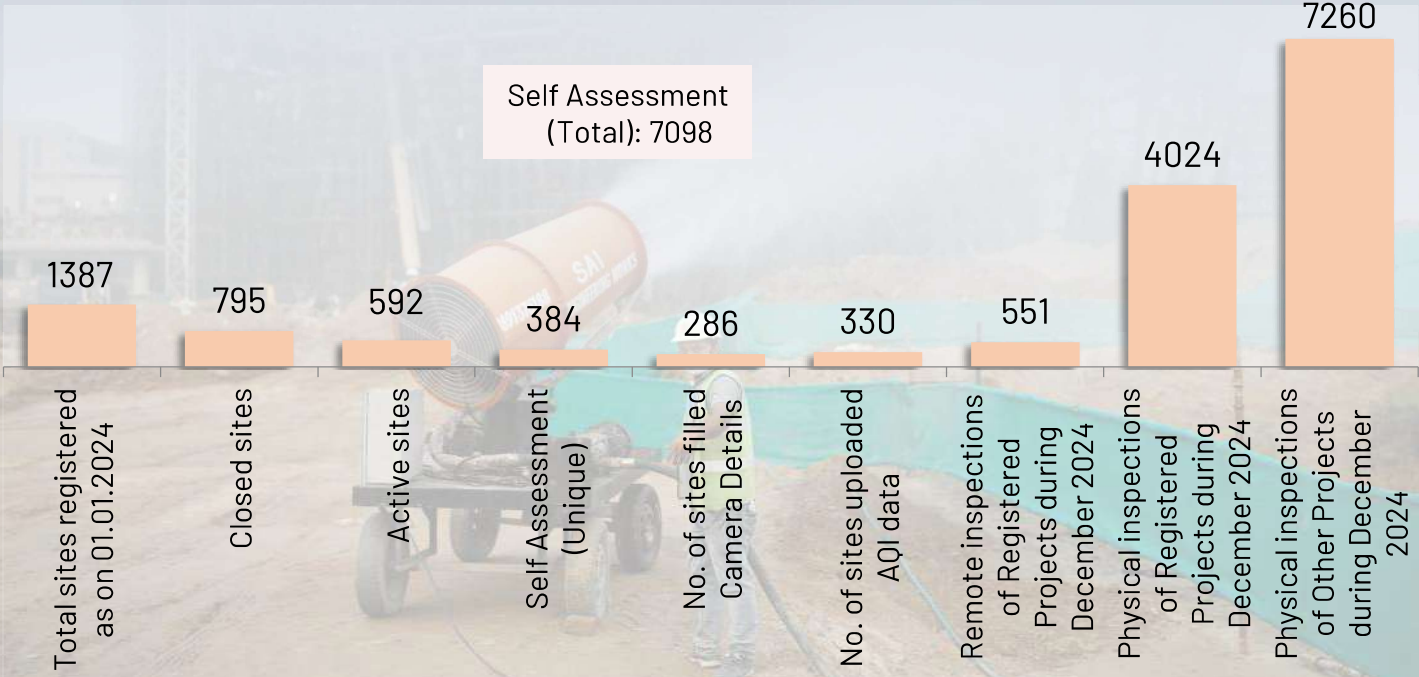
Deployment of adequate numbers of anti-smog guns, in proportion to the area of the construction sites (as per CAQM Policy).



504

Deployment of **504 anti-smog** guns at large construction sites

## Dust pollution Control for Self- assessment web portal for C&D sites





11

Monitoring  
Through C&D Web Portal

Dust pollution Control for Self- assessment web portal for C&D sites

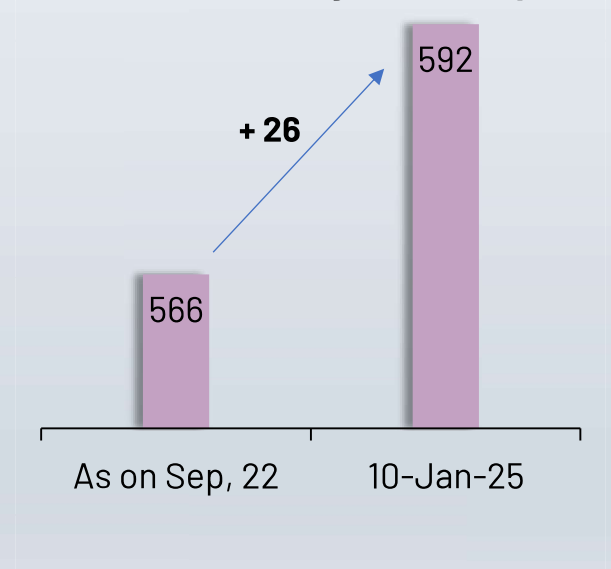
Web portal for Construction and Demolition sites of 500 Sq mt and above built-up area launched by DPCC in Sep, 2021.

Capacity building of all stakeholder departments held on Apr,2023 and Sept, 2023 and Apr, 2024 on registration and review of self-assessment reports followed by personal hearings to more than 1193 PPs to resolve issues related to C&D portal.

No of Workshops held: 19 workshops for overall sensitization about C&D portal

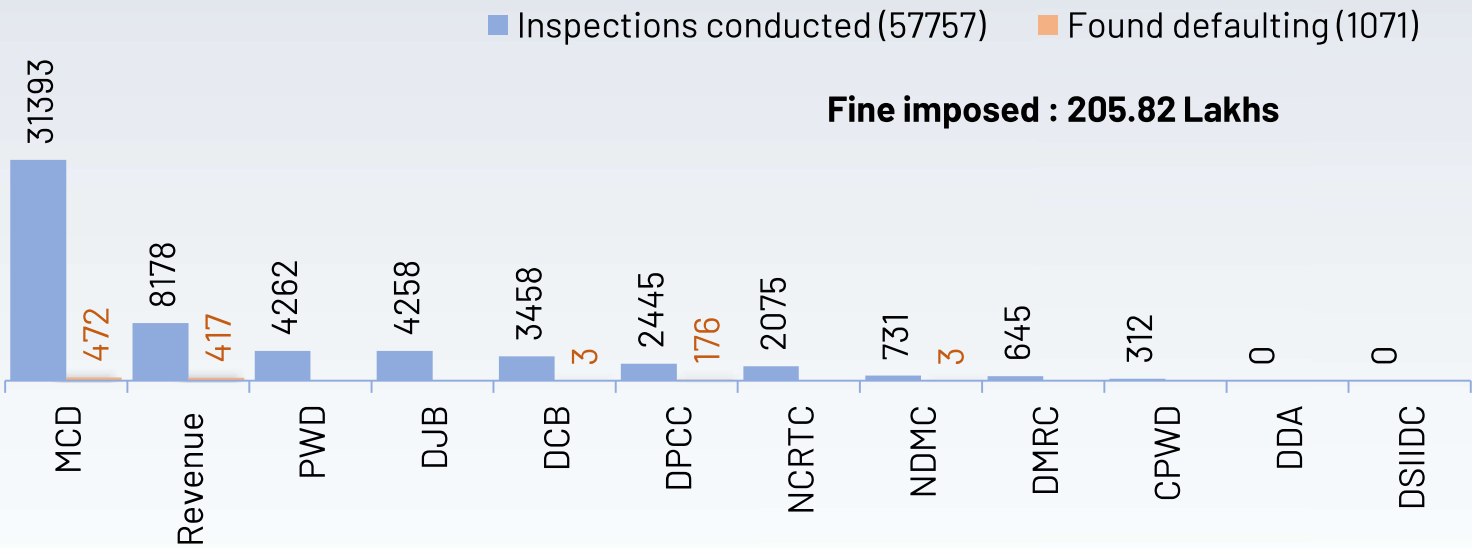
Regular review of self-audit of construction sites registered on DPCC’s Dust Assessment portal

No. of active sites registered on portal



523 Teams for ensuring compliance of dust control norms are deployed during winter 2024

Enforcement : Jan, 2024 to Dec, 2024



# 02

## Mitigation Of Dust from Road and Open Areas



# 12

## Mitigation of Dust from Road and Open Areas

### Strategies

- |   |   |
|---|---|
| 01   Institutionalized monitoring of Road dust management     | 08   Deployment of ASGs on High Rise Building               |
| 02   Deployment of MRS Machines                               | 09   Funding to ULBs for mitigation of air pollution (NCAP) |
| 03   Scientific disposal of Dust Collected in Sites/Landfills | 10   Machines in summary MRS   WS   ASGs                    |
| 04   Funding to MCD for Integrated MRS Machines               | 11   Paving / Greening of Roads sides                       |
| 05   Deployment of Water Sprinklers                           | 12   Greening of Central Verges, August-2024                |
| 06   Deployment of Antismog Guns                              | 13   Repair and maintenance of Road Patches/ Potholes       |
| 07   Deployment of Mobile ASG Hotspot Wise                    |   |



# 13 Institutionalized Monitoring of Road Dust Management

**Dust Control and Management cells** constituted by 12 road owning agencies and stakeholder departments under the direction of CAQM.

**Monitoring** optimum utilization of road sweeping machines, scientific disposal of dust collected in designated sites/ landfills, water sprinkling to suppress dust especially after mechanized sweeping, conversion of non-paved road sides into paved, greening of central verges and deployment of Anti-Smog Guns at dust hotspots etc.

**CAQM reviews progress regularly.**

## Road Owning Agencies

|        |      |       |
|--------|------|-------|
| MCD    | NDMC | DCB   |
| PWD    | DDA  | CPWD  |
| DSIIDC | NHAI | IFCD  |
| DMRC   | DJB  | NCRTC |

Department of  
Environment

Govt. of NCT  
of Delhi



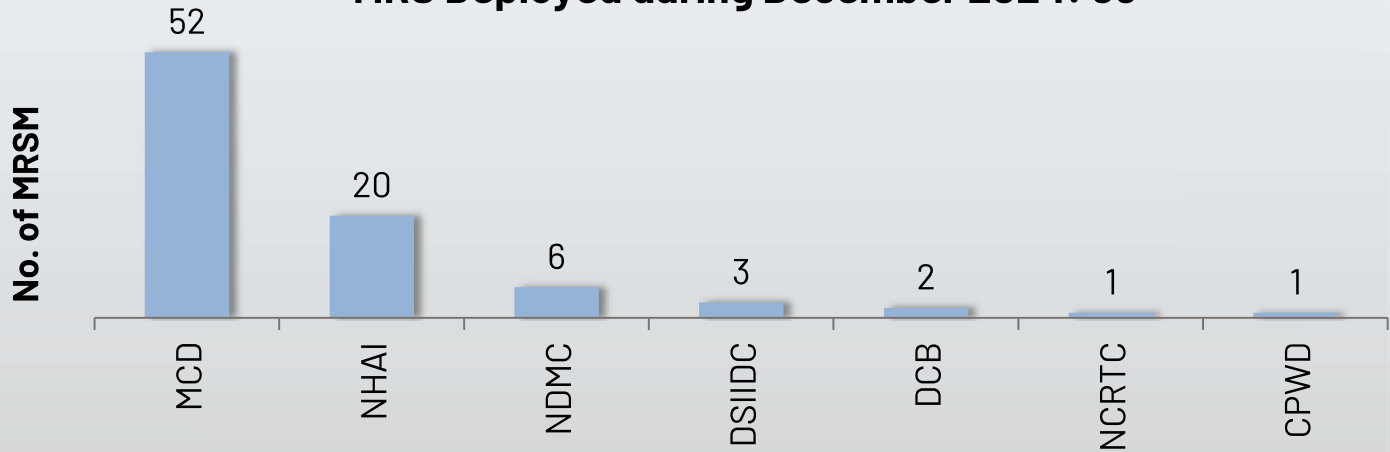
## Review of Functioning of Dust Control Management Cells



# 14

## Deployment of MRS Machines

### MRS Deployed during December 2024: 85



Covering 35 Km/MRS/Day

Ensuring scientific disposal of dust collected

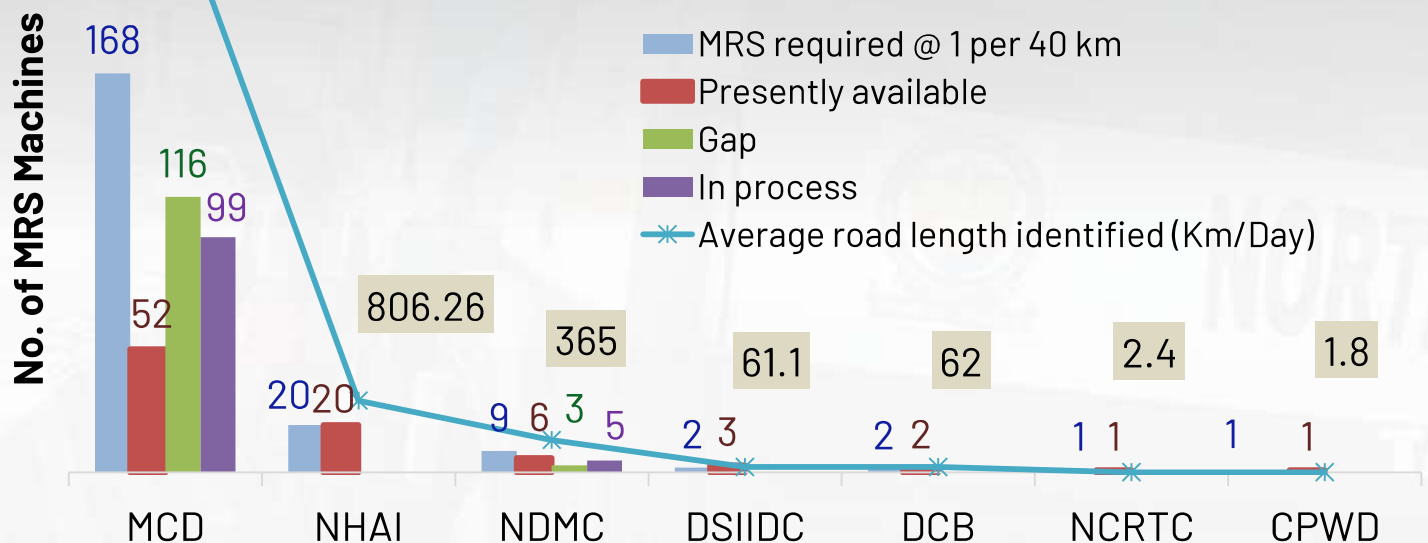
### MRSM: Gap in MRS Machines

## 105 MRS

99 MCD

6 NDMC

Procurement under approval

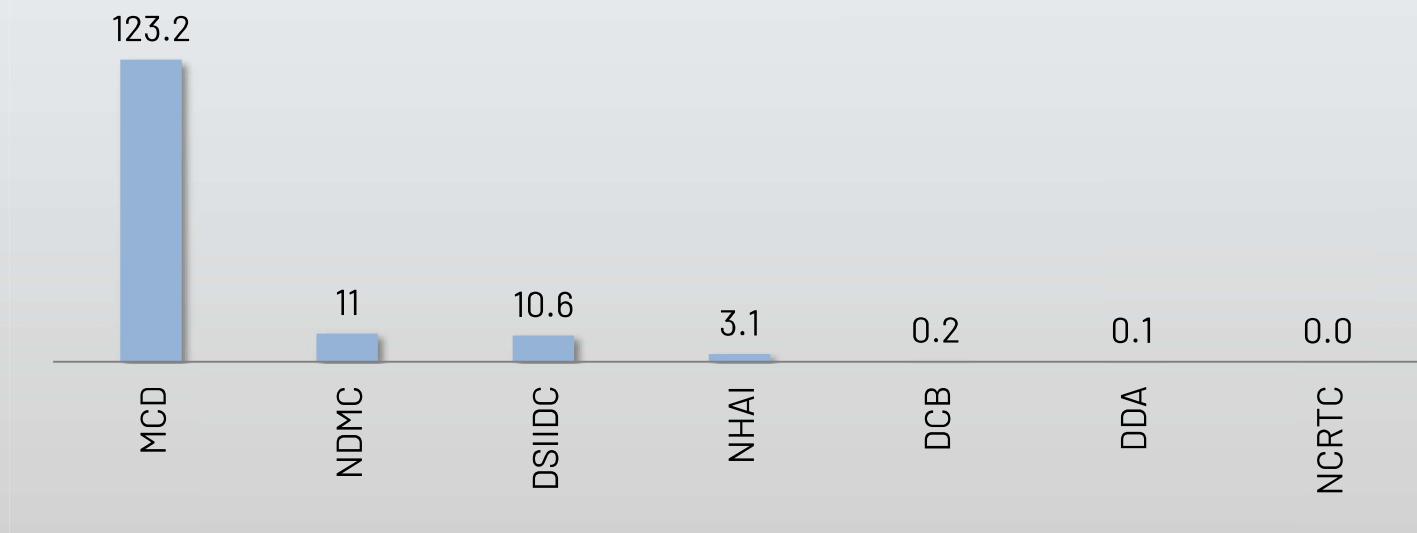




# 15

## Scientific disposal of Dust Collected in Designated Sites/Landfills

### Average Road dust collected per day (148.7 MT/Day)



### Disposed at:

Okhla, Bhalaswa, Ghazipur, Shastri park, Begumpur and Burari

### Site wise average quantities disposed daily by MCD and NDMC:

- Okhla - 47.96 MT/Day
- Bhalaswa - 49.28 MT/Day
- Ghazipur - 36.96 MT/Day

# 16

## Funding to MCD for Integrated MRS Machines

Cabinet approved on **18.11.2023**

Total budget- **Rs 2388 Crore** over concession period

### Project-I

250 Water Sprinkler Machines  
integrated with Anti-Smog Gun

**10** Years



### Project-II



70 Mechanical Road Sweeping (MRS) Machines integrated with  
210 Water Sprinkler Machines and Anti-Smog Gun,  
18 Dump Vehicles and 18 Water Tankers

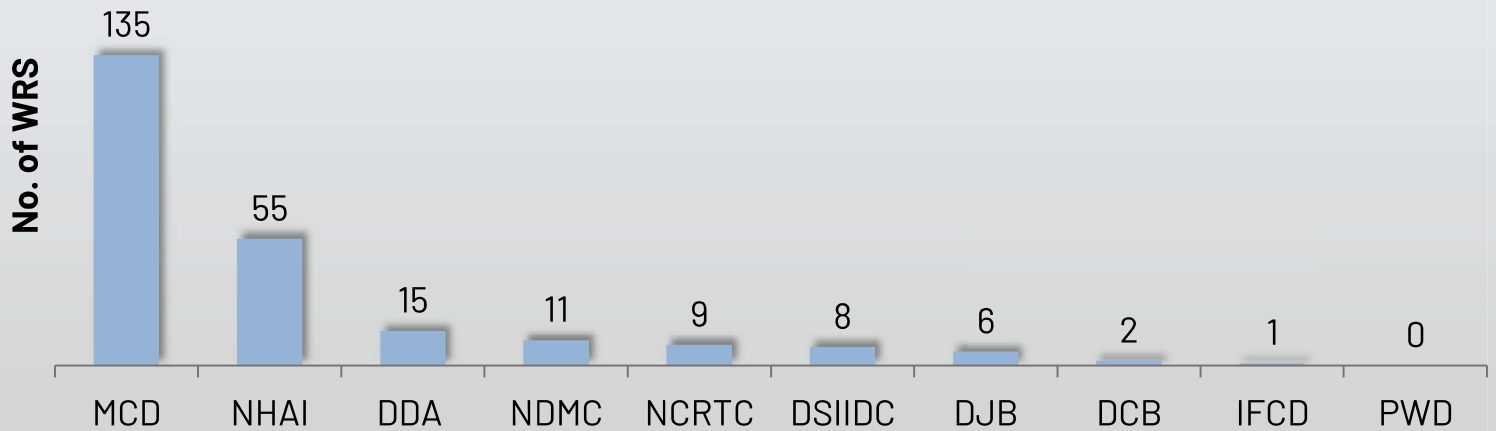
**7**  
Years



## 17

## Deployment of Water Sprinklers

**Average (per day) WS Machines Deployed in December 2024  
(including water tankers): 242**



**2079.6 Km/Day**

Average Road length covered per Day.

Water Sprinkler Capacity range : 1000- 10000 Liters

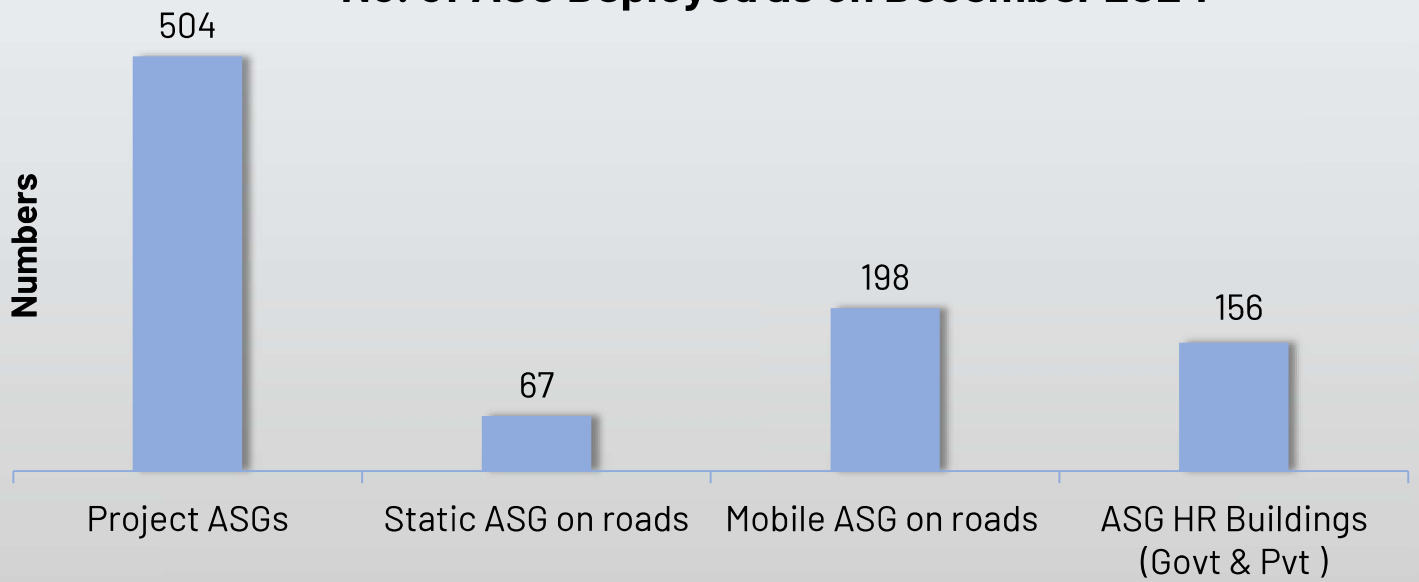
Dust suppressants trials done by ULBs



# 18

## Deployment of Antismog Guns

No. of ASG Deployed as on December 2024



19

## Deployment of Mobile ASG Hotspot Wise

200

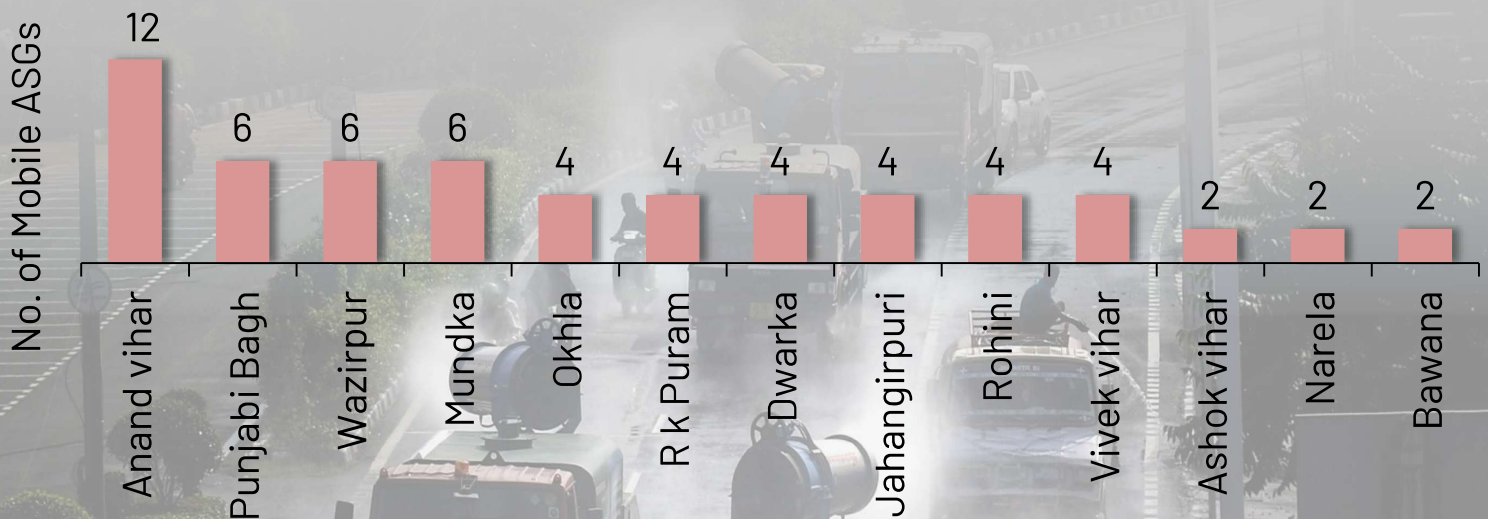
Mobile ASGs

About Rs 40 Cr released during  
2023-2024

Earmarked Rs. 60 Cr. for  
2024-25

60

Mobile ASGs in  
hotspot areas



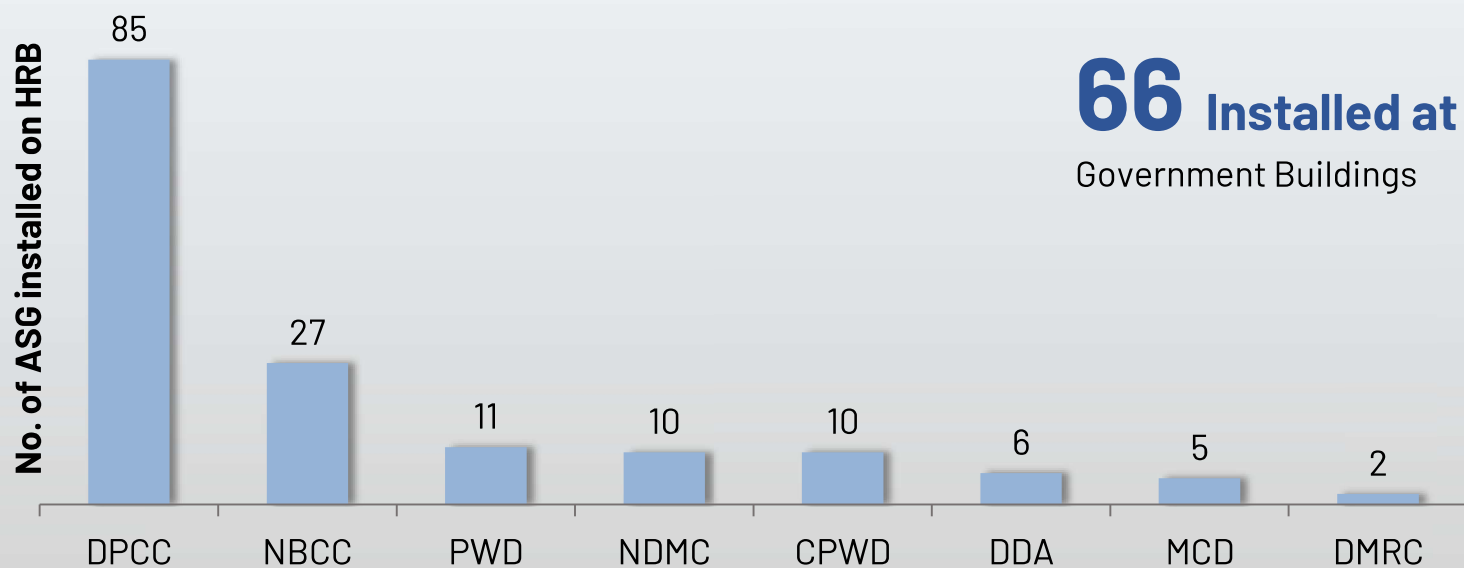
Environment department has provided 60 nos. of mobile ASGs last  
winter to assist MCD to combat dust pollution in hotspot areas.

Planned this winter too



# 20 Deployment of ASGs on High Rise Buildings

## Total ASGs on High Rise Buildings : 156



Hotels, shopping complexes etc. directed by DPCC.

All Government Departments (MCD, DCB, DDA, NDMC, PWD, NHAI, NBCC, CPWD, etc.) directed to identify more high-rise buildings for the installation of anti-smog guns.

**90 Installed at Private Buildings**



# 21 Funding to ULBs for mitigation of air pollution (NCAP)

## Implementation of NCAP

National Clean Air Program (NCAP) launched on 10th January, 2019

Delhi hasn't got funds under NCAP in 2019-2020 & 2020 -2021.

Received Rs.11.25 Crore for 2021-2022 and 22.50 Crore for 2022-23.

Transferred 100% funds [33.75 Cr.] to MCD for purchase of 14 MRS and 28 Water Sprinkler/ Anti-Smog Guns and 2 Nos. pothole repairing/ road patching machine

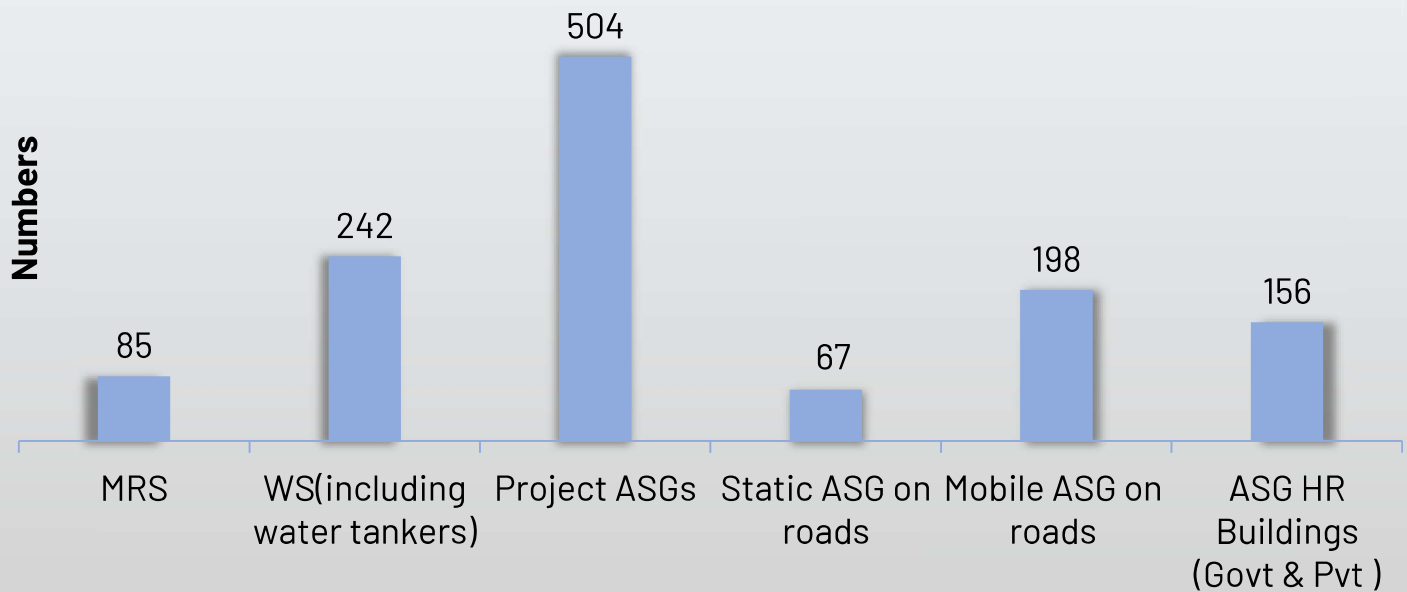
Rs 8.93 crores transferred to NDMC in financial year 2023-24

| ULBs         | Fund Released       | Fund Utilized            |
|--------------|---------------------|--------------------------|
| MCD          | 33.75 Cr. (2021-23) | 13.03 Cr. (38.6%)        |
| NDMC         | 8.93 Cr. (2023-24)  | 0.54 Cr. (6%)            |
| <b>Total</b> | <b>42.68 Cr.</b>    | <b>13.57 Cr. (31.8%)</b> |



# 22

## Machines in summary MRS | WS | ASGs

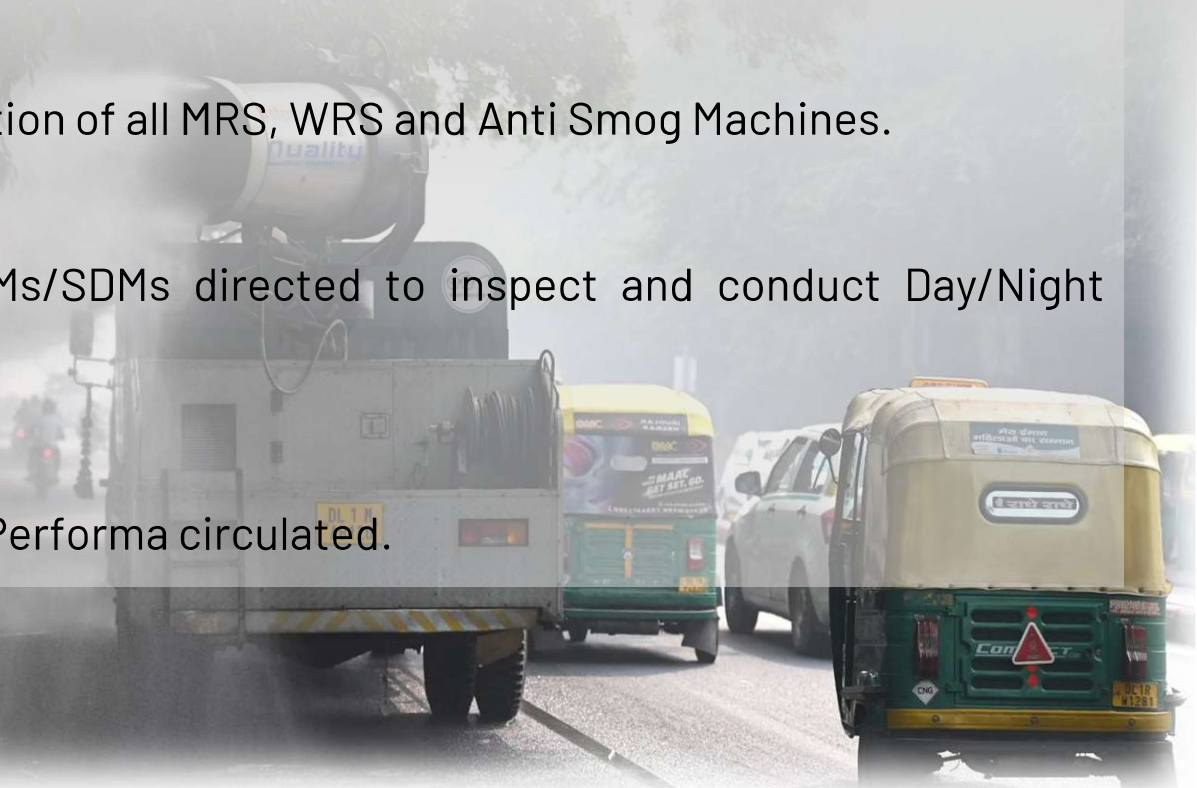


### Intensified measures (GRAP) during this winter

24 Hr operation of all MRS, WRS and Anti Smog Machines.

All DMs/ADMs/SDMs directed to inspect and conduct Day/Night monitoring.

Monitoring Performa circulated.

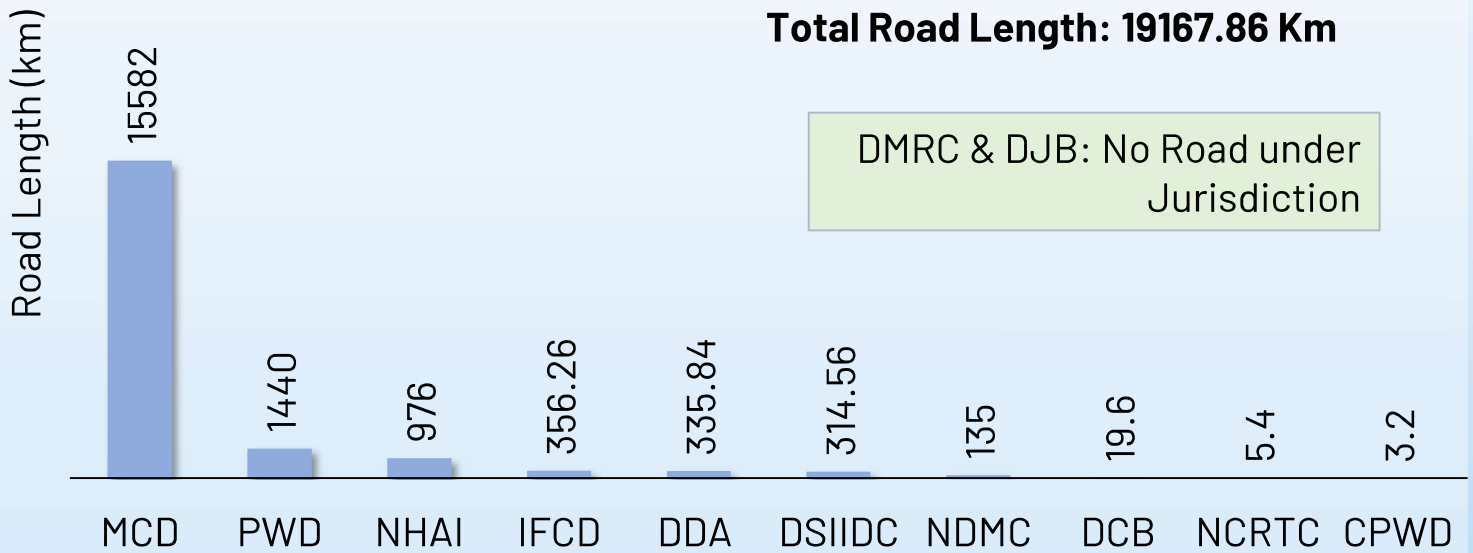


# 23 Paving / Greening of Roads sides

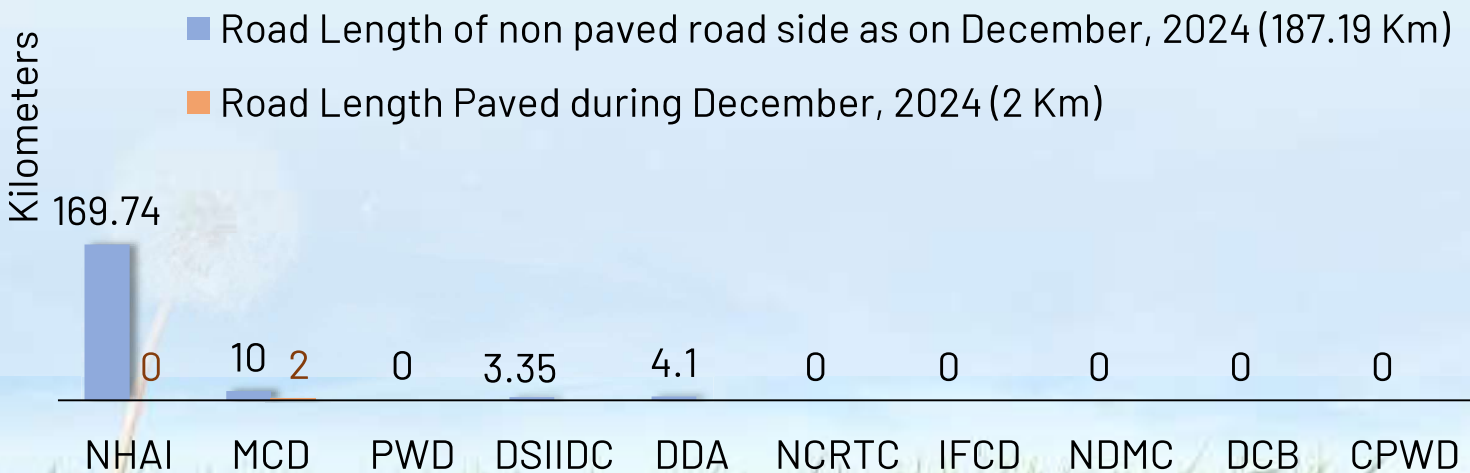
## Road length under jurisdiction as on December, 2024

Total Road Length: 19167.86 Km

DMRC & DJB: No Road under Jurisdiction



## Non-paved/open road sides as on December, 2024





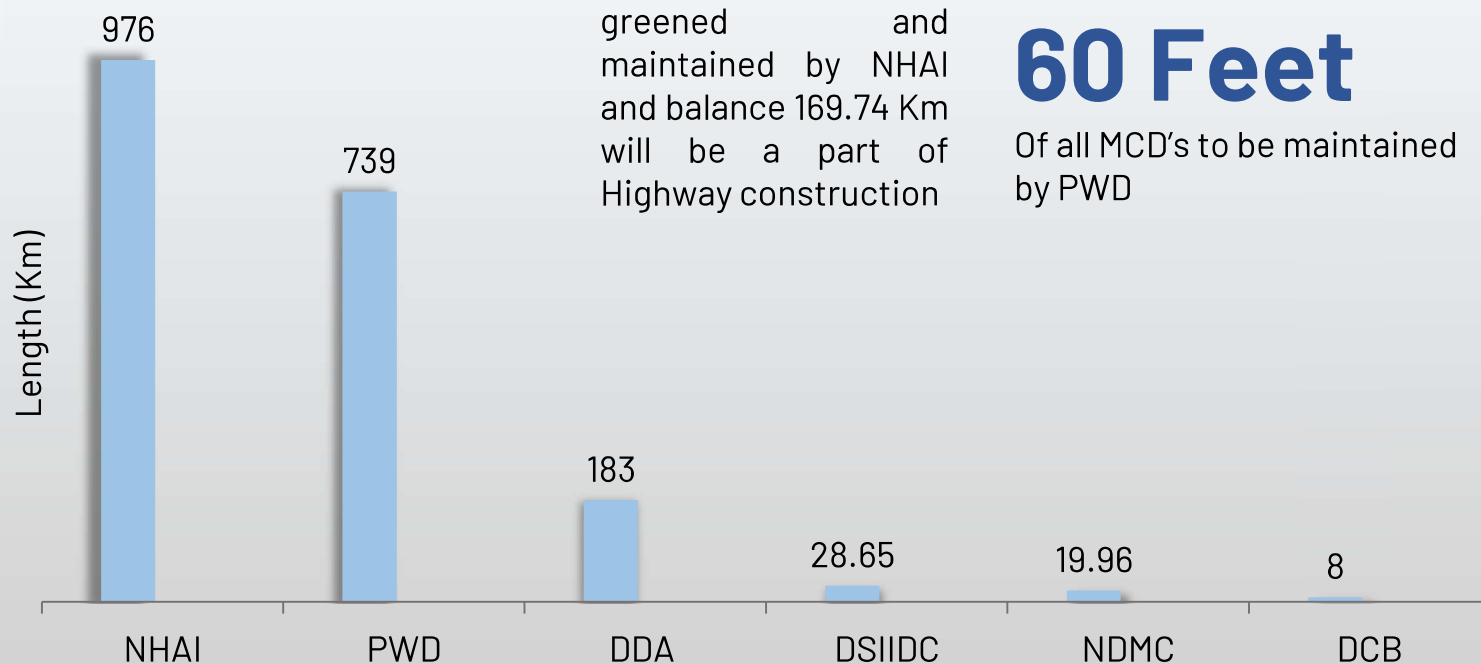
# 24 Greening of Central Verges

\* 806.26 km Regularly greened and maintained by NHAI and balance 169.74 Km will be a part of Highway construction

Road Length above

## 60 Feet

Of all MCD's to be maintained by PWD



■ Total length of central verges (1954.6 Km)

Balance length of Central Verges for greening : 0 Km

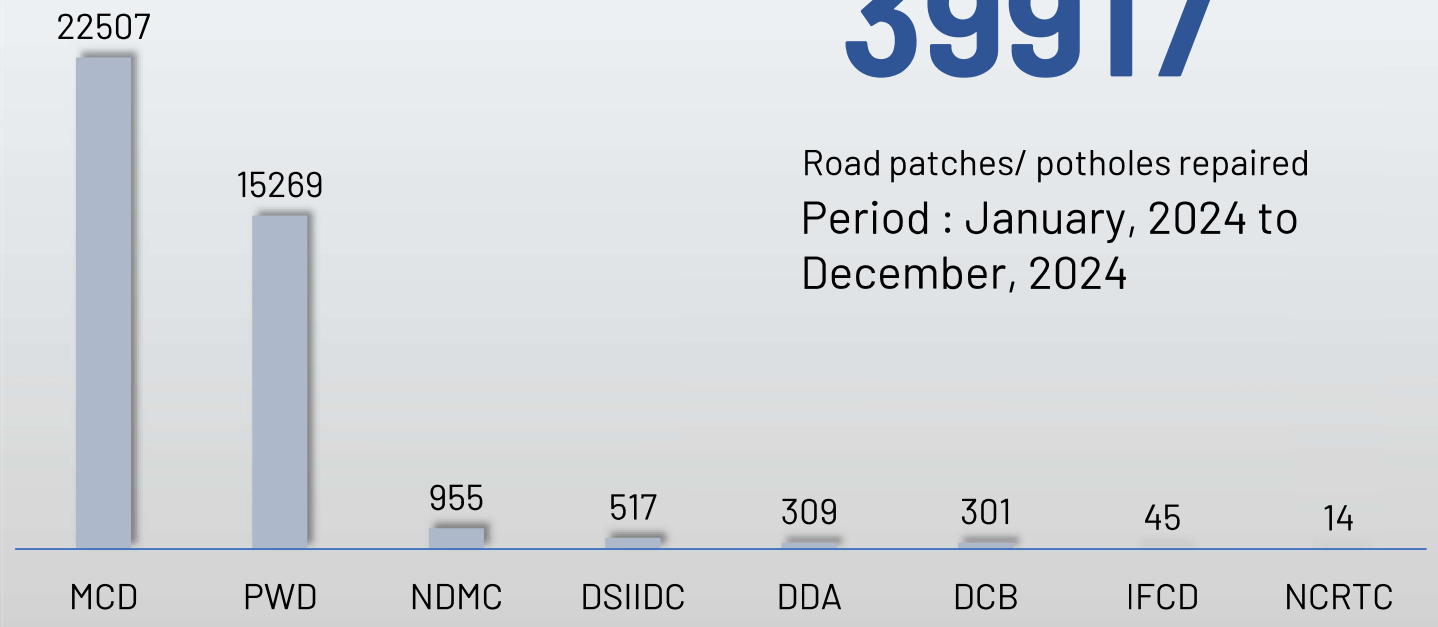


# 25

## Repair and maintenance of Road Patches/ Potholes

39917

Road patches/ potholes repaired  
Period : January, 2024 to  
December, 2024



NHAI: Regularly repair of potholes & patches



# 03

## Control of fires incidences in sanitary landfill sites

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# 26 Control of Fires Incidences In Landfill Sites

## Strategies

01

Ensuring 100% household waste collection and segregation

03

Remediation of legacy waste

02

Processing of Municipal solid wastes

04

Control of fires in landfill sites





# 27 Ensuring 100% Household Waste Collection & Segregation

## 100 %

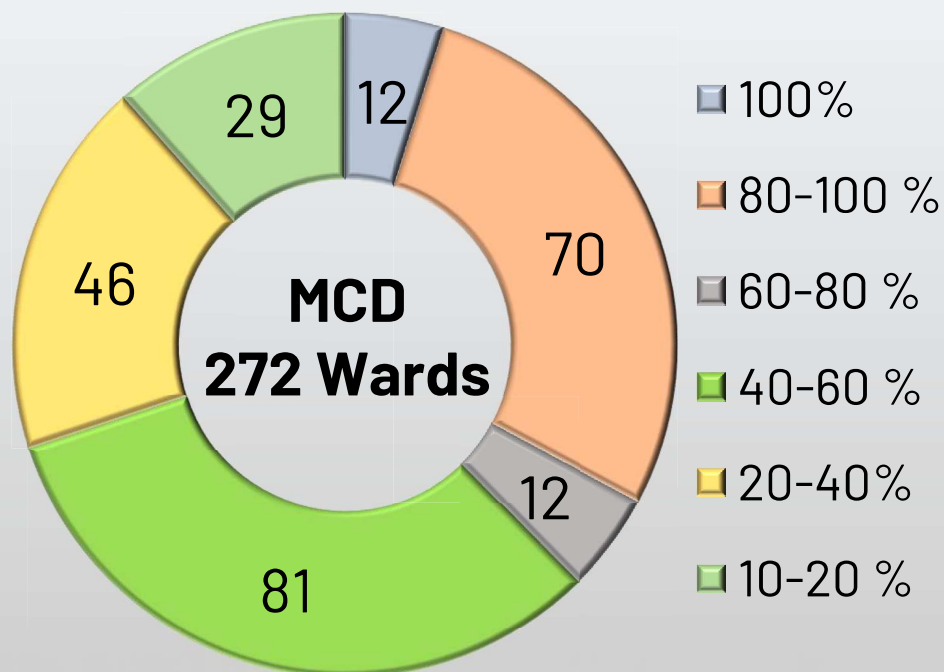
**Collection** of MSW  
by Local bodies

**Segregation :**

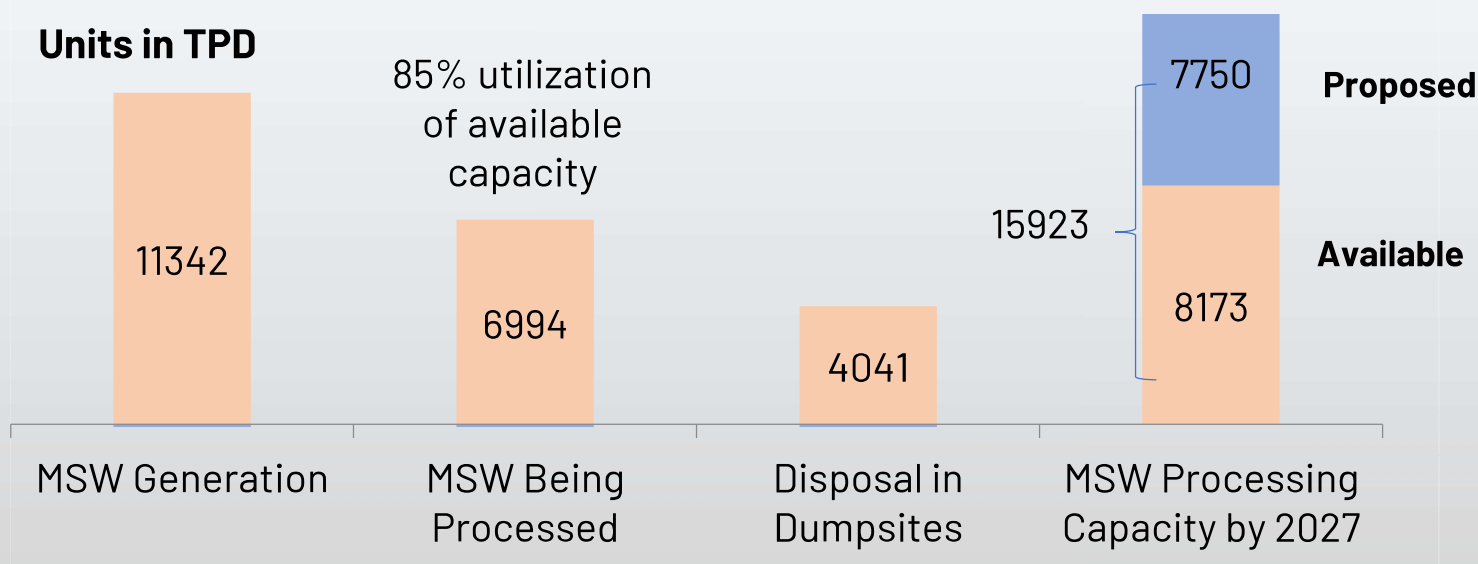
NDMC: >90% in  
all 14 Circles

DCB: 90 % in Civil  
Pockets and 70 % in  
Army Pockets

MCD: 58% segregation  
Timeline – 90% by Aug,  
2026

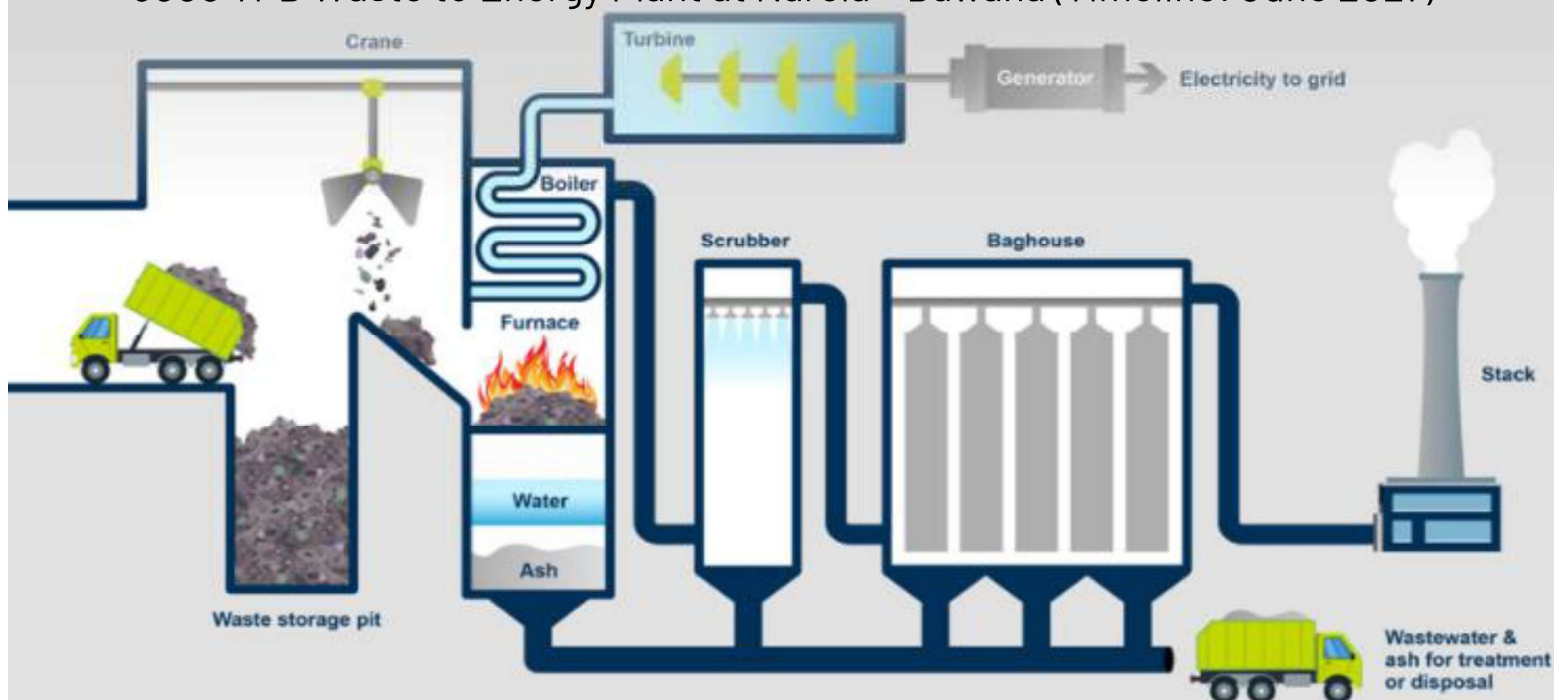


# 28 Processing of Municipal solid wastes (MSW)



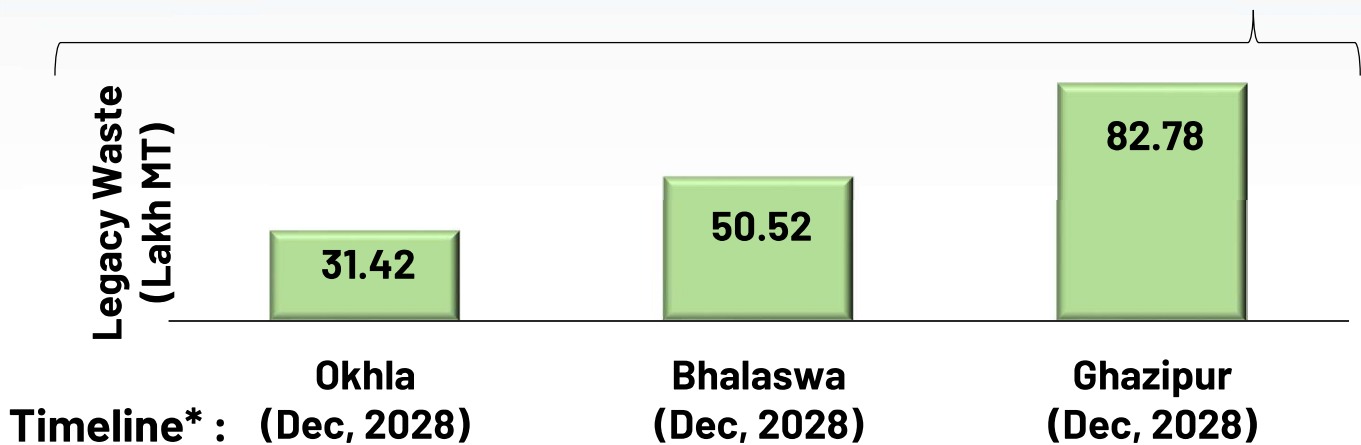
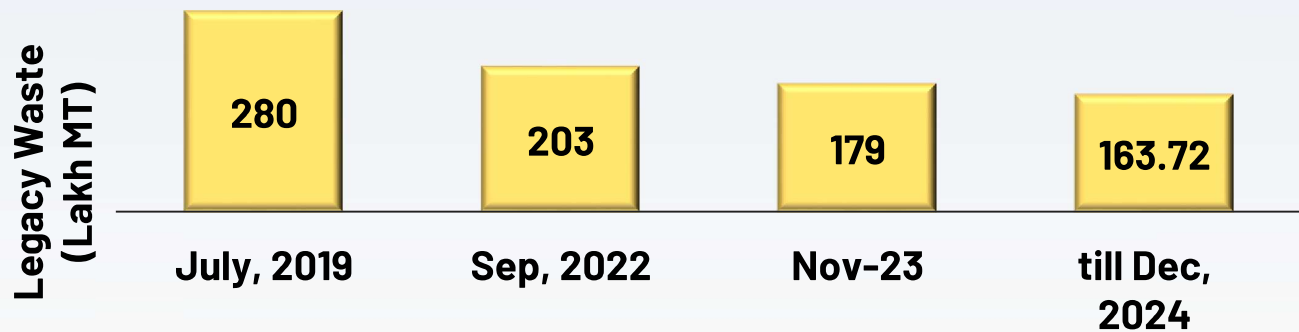
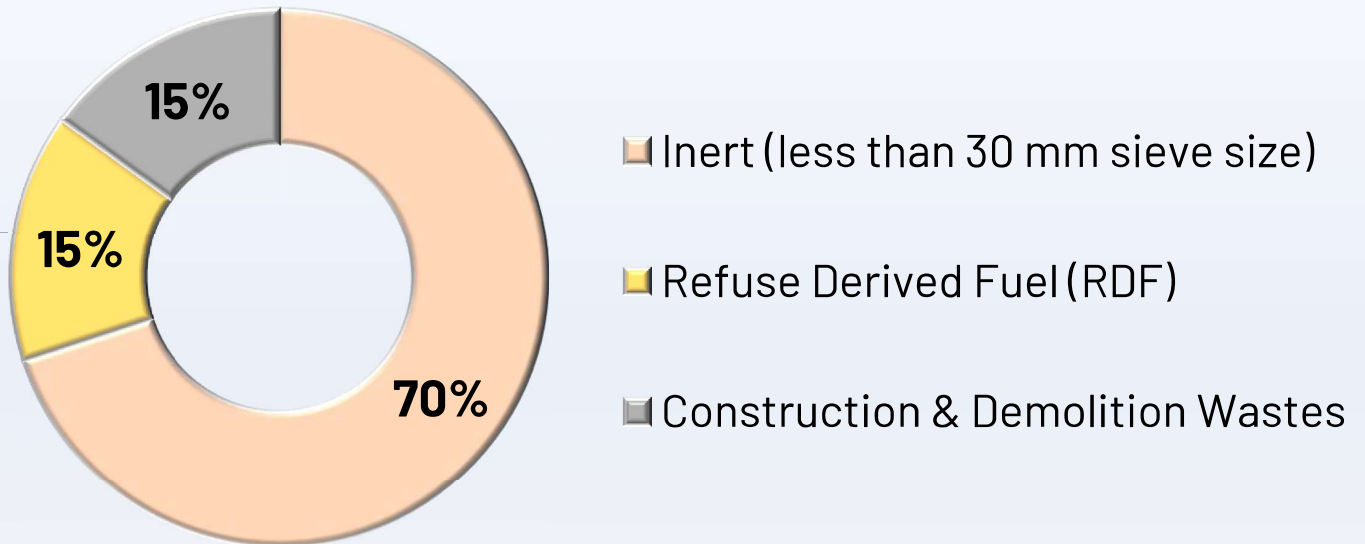
## Major Proposed Projects: .

- Expansion of existing WtE of 1950 TPD at Okhla to 2950 TPD. (Timeline: June 2026)
- Expansion of existing WtE of 2000 TPD at Tehkhand to 3000 TPD. (Timeline: Dec 2026)
- 2000 TPD Waste to Energy Plant Ghazipur (Timeline: Dec 2027)
- 3000 TPD Waste to Energy Plant at Narela – Bawana (Timeline: June 2027)



# 29 Remediation of Legacy Waste

## Composition of Biomined legacy waste



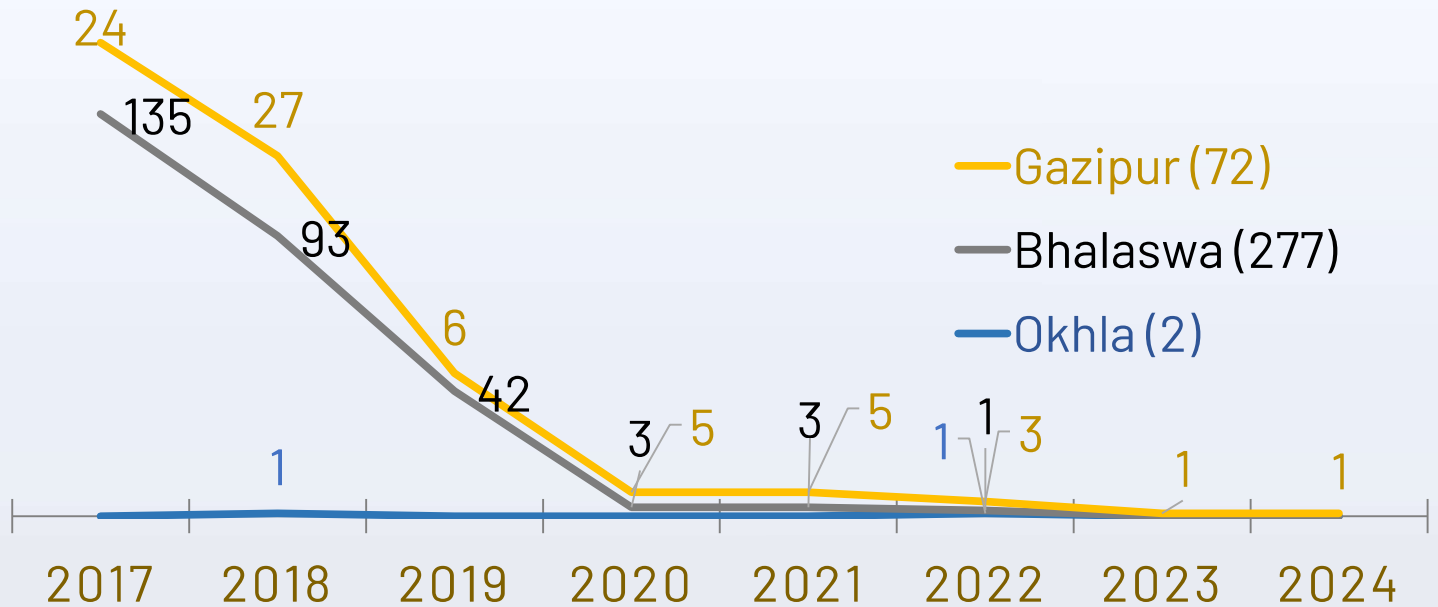
# 58 Trommels Machines in operation

\*subject to the stoppage of incoming fresh waste and formation of Standing Committee in MCD



# 30 Control of Fires in Landfill Sites

Landfill fires in last 8 Years



## Plan in place for controlling fire at landfill sites.

- 24\*7 deployment of personnel and CCTVs
- Fire tender deployment
- Prohibition of entry of unauthorized persons & ragpickers
- Declaring and maintaining "No Smoking Zone."
- Monitoring of subsurface temperature

Substantial reduction in landfill fires during the last seven years from around 159 fire incidents in 2017.

## Zero landfill fire in winter 2023-24

1 landfill fire in 2024 in Ghazipur landfill site



# 04

## Prevention of open burning of MSW and biomass

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# 31

## Prevention of Open Burning of MSW and Biomass

### Strategies

01

Enforcement : Biomass Burning

03

Stubble burning control

02

Enforcement: Electric heaters provided by RWA 's

04

Burning along railway tracks





# 32 Enforcement Biomass Burning

Period: Jan, 2024 to Dec, 2024

**71010**

No. of inspections of garbage burning sites conducted

**Rs. 4.674  
Lakhs**

Amount of fine imposed

**859**

No. of open burning incidents addressed

**588**

Teams for day and night patrolling for preventing open burning

GNCTD has also authorized IFCD officers along with SDMs and Tehsildars of Revenue Dept., GNCTD to impose challans on open burning.



**33****Enforcement****Electric heaters provided by RWA 's**

From October, 2024 to 15<sup>th</sup> January, 2024

No. of RWAs contacted:

**742**

No. of RWAs who have provided  
heaters to Security Guards:

**403**



# 34 Stubble burning control

## ACHIEVEMENT : 2023-24

4189 acres of fields sprayed since 28.10.2023 at North, North-West, West, Central and South-west districts

## TARGET : 2024-25

Bio decomposer Spray: GNCTD targeted 4000 Acres. Field survey has been completed

## ACHIEVEMENT : 2024-25

5000 acres of fields sprayed at North, North-West, West, Central and South-west districts of Delhi.

**247** no. crop residue management machineries have been provided to farmers of Delhi during last 3 years.

ADMs/ SDMs – nodal officers in each district, to coordinate and monitor incidents of stubble burning.

18 inspection / patrolling team (13 day & 7 night) constituted among agriculture functionaries to keep watch/prevent probable incidence of crop residue burning

**50** training programs will be held in villages to educate farmers on avoiding paddy crop residue burning

Central sector scheme for Agricultural mechanization for in-situ mgt. of crop residue will be implemented.

Machinery will be provided to farmers on 50 percent subsidy.

Field extension teams will monitor burning incidents in 5 districts, reporting them to the relevant SDMs for action.

**11** no. day night teams deployed

**25** farmers awareness training programmes conducted in villages to aware sensitize farmers not to burn paddy crop residue / stubble.

**365** paddy crop residue management machineries provided to farmers of Delhi, on 50 % subsidy w.e.f. 2019-20 to 2023-24.

**118** machines were distributed to farmers on 50% subsidy in FY 2023-24.



# CREAMS

Consortium for Research on Agroecosystem Monitoring & Modelling from Space  
Indian Agricultural Research Institute

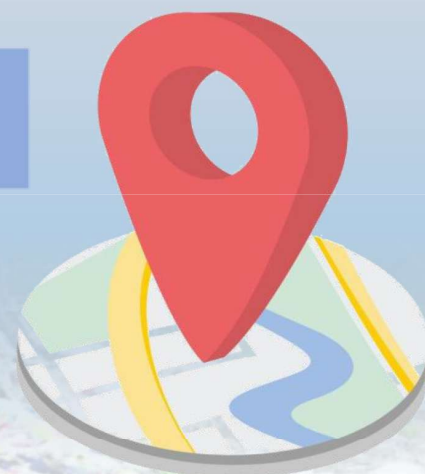


# 35 Burning Along Railway Tracks

- Clearing of wastes along tracks in railway land by Railways and by MCD beyond
- MCD identified and mapped nearest dustbin/dhalo/FCTS for the railways to transport and dump the garbage therein. Plan was submitted to Railways.
- As per Hon'ble Supreme Court:
- Cost for Collection/ transportation /processing of MSW to be borne in 70: 30 Ratio (Railway : State Govt.)
- Quantity of MSW lying on 105 km of Railways track in Delhi was assessed as 31989 MT in June, 2023 in joint inspection by MCD and Railways. Re assessed as 28080 MT
- **17293 MT** has been lifted.

## Identification of Vulnerable Industrial plots for Burning

**164** Vulnerable plots identified  
Regular action by DSII DC, MCD and DPCC



# 05

## Electric/ EV mobility

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# 36

## Electric/ EV mobility

### Strategies

01

Increasing adoption

03

Electrification of Depots

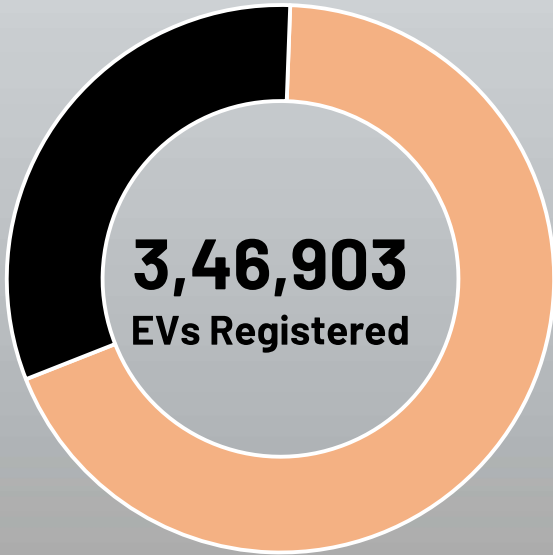
02

Augmentation of  
infrastructure [EV Charging  
Stations/ battery swapping]

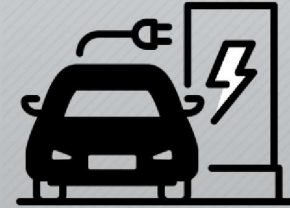




# 37 Electric/ EV mobility Increasing Adoption



Till 31<sup>st</sup> December, 2024

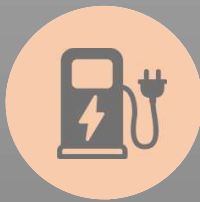


**12%**

New Vehicle EV registrations is  
12.00% of total new registration  
since Jan 2024

## Augmentation of infrastructure

### [EV Charging Stations/ battery swapping]



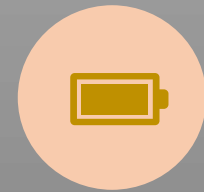
**3100**

**Charging  
Stations  
In place**



**4793**

**Charging Points  
In place**



**318**

**Swapping  
Stations  
In place**

### Future Targets

Installation of around 18,000 public and 30,000 private/semi-public EV charging points by 2026.

Public Charging points: 13000 points by 2025/ 18000 points by 2026

Private/semi-public charging points: 20000 points by 2026/ 30000 points by 2026

# 38

## Electric/ EV mobility Augmentation of infrastructure

### DDA

Requested to incorporate provision to **reserve at least 20% of parking area for EV charging points** in the draft Master Plan for Delhi-2041.

### MCD

Requested to approve building plans only **if they adhere to EV Charging Station (EVCS) requirement (20% of parking capacity)** and also ensure implementation of 5% parking space to be EV ready in existing buildings with parking capacity of more than 100 vehicles within six months



# 39

## Electric/ EV mobility Electrification of Depots

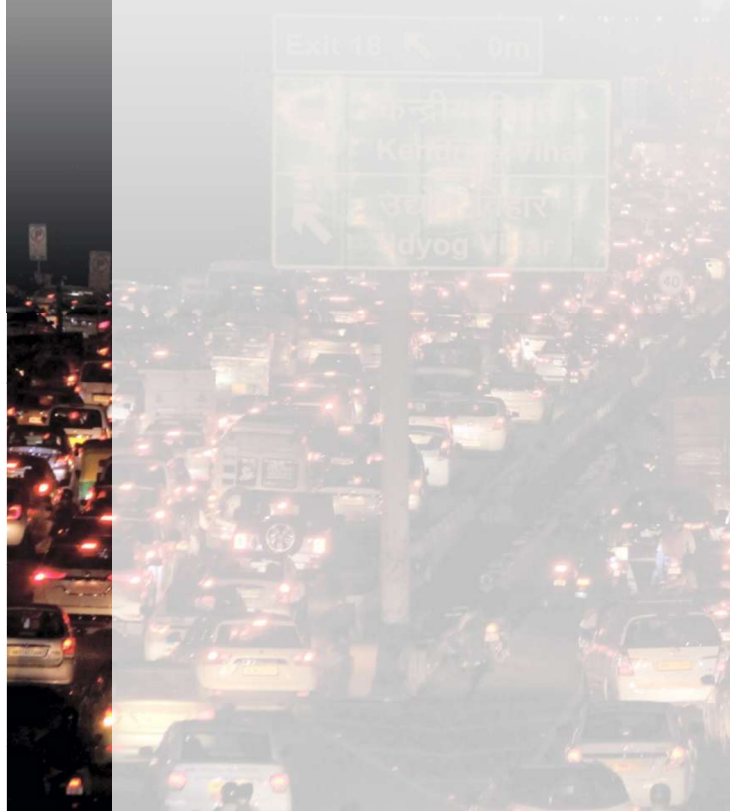
- **Out of 70 bus depots (40 depots of DTC, 08 depots of DMRC and 19 depots of DIMTS), 21 are electrified (17 of DTC and 6 of DIMTS). Remaining depots shall be electrified by 2024-25**
- Plan to electrify balance depots by FY 2024-25 to achieve 8000 buses out of target fleet of 11,000 Buses



# 06

## Vehicular Pollution Control

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# 40 Vehicular Pollution Control

## Strategies

01

Phasing out old vehicles

03

Smooth road traffic management

02

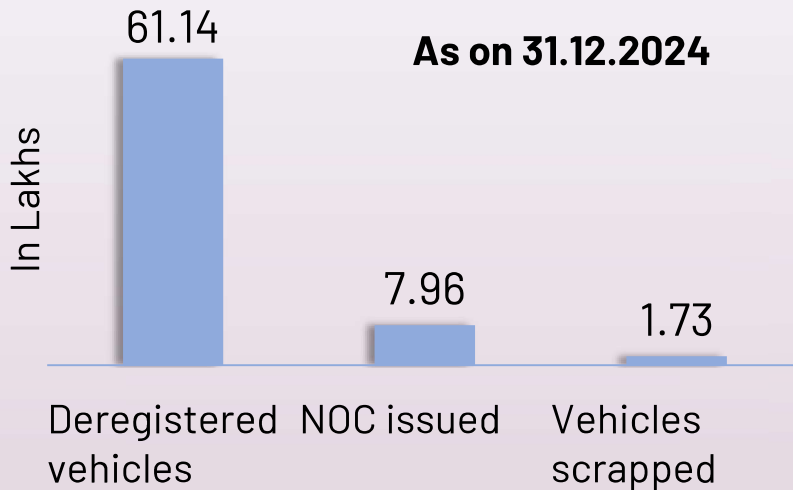
Enforcement of PUC norms



41

## Elimination of 10/15 Year Old Diesel/ Petrol Vehicles

### Phasing out old vehicles [Total live vehicles = 83.96Lakhs]



950

#### Personnel

For compliance of ban on  
10-Y-old diesel and 15-Y-old  
petrol vehicles

10/15-Year-Old Diesel/ Petrol vehicles are being impounded as per the order of NGT (in OA Nos. 21 of 2014) and Hon'ble Supreme Court of India.

Policy for scrapping of old vehicles notified on 24.08.2018.

New scrapping Rules under approval in line with Notification of MoRTH issued vide date 23.09.2021 as amended to date.

**61.14 lakh vehicles (10-15yr old) have been de-registered (till 31.12.2024)**

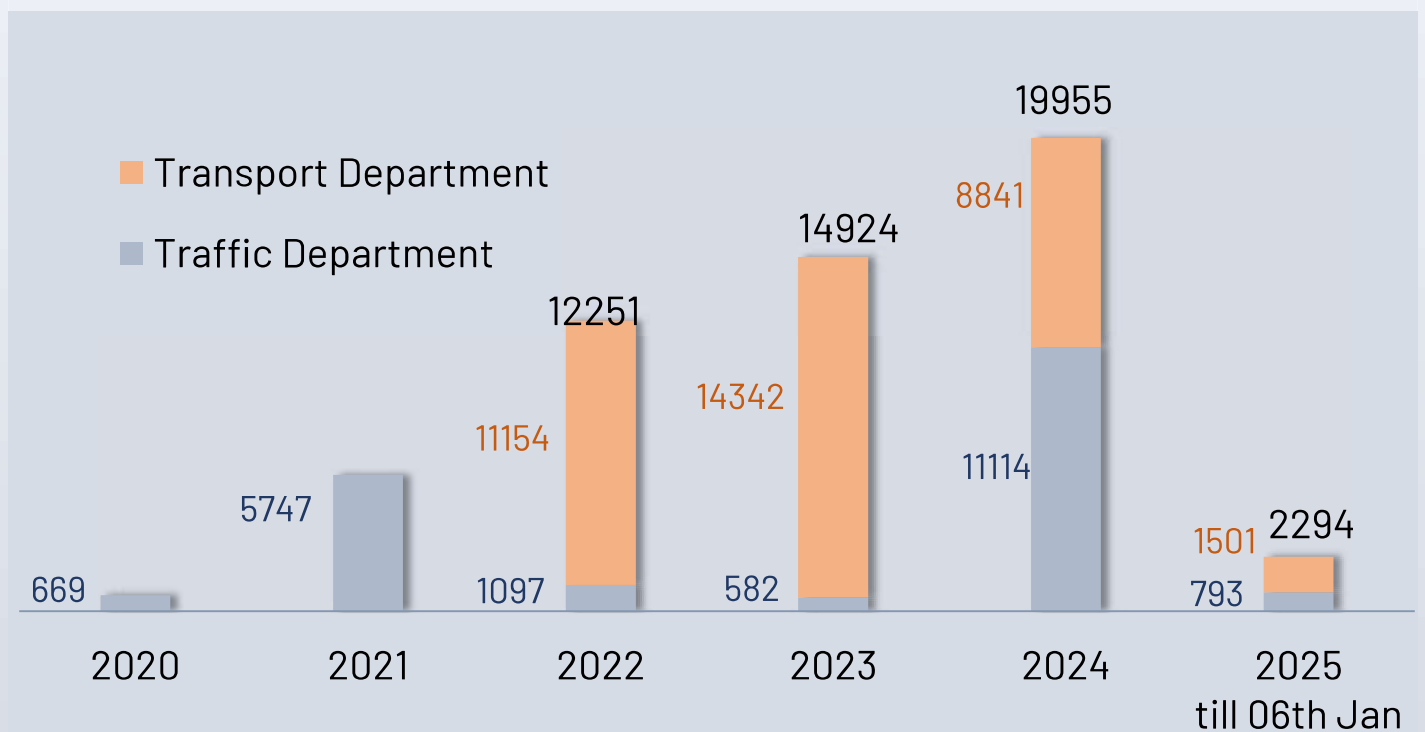
9467

**Vehicles impounded and sent for scrapping (during 2024)**



# 42 Elimination of 10/15 Year Old Diesel/ Petrol Vehicles

## Vehicles Impounded

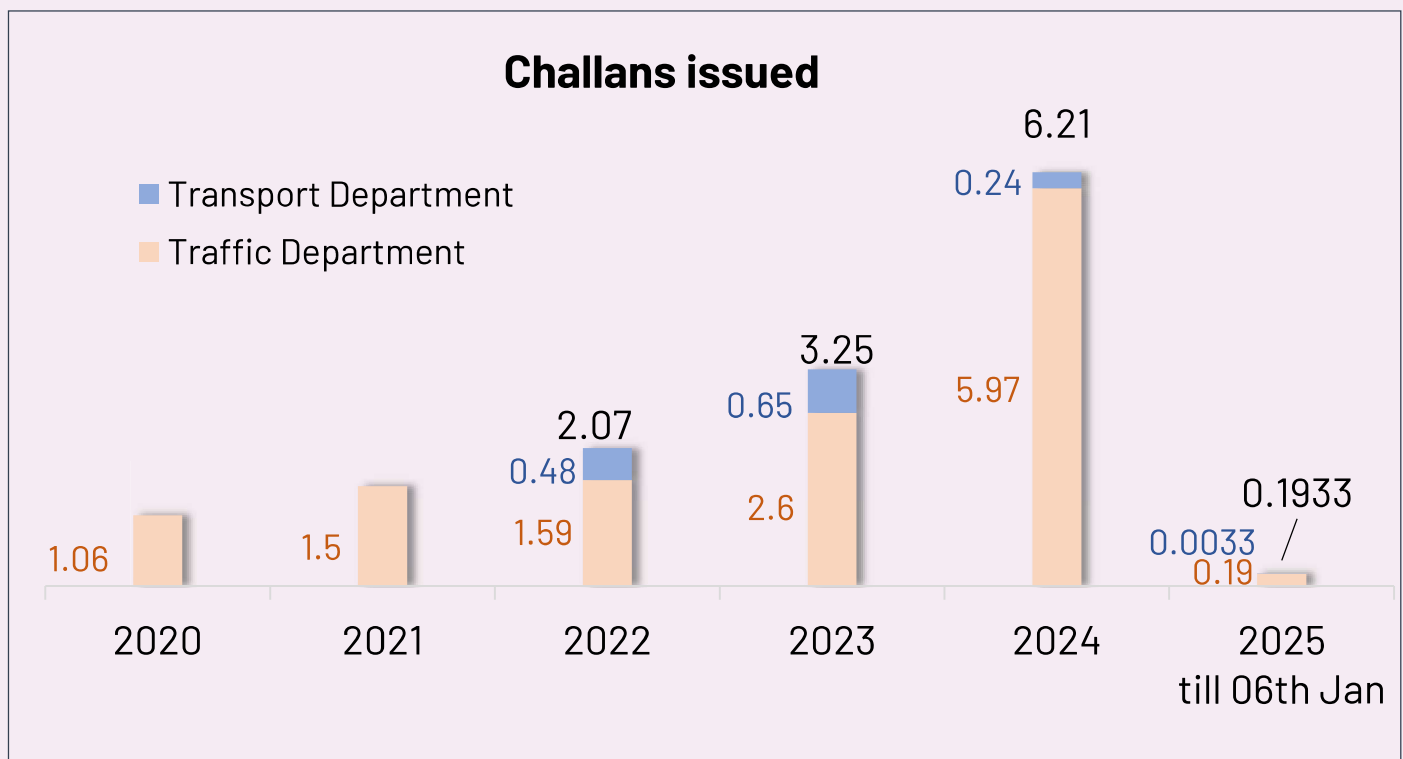
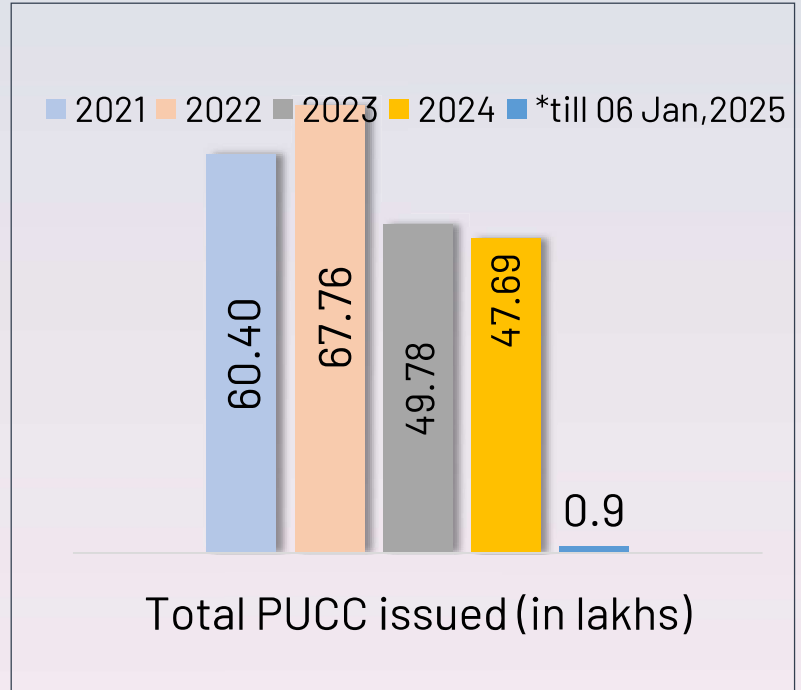


# 43 Enforcement of PUC regime

951 PUC Centers operational in Delhi. Target 1000 centers.

Regular SMS sent to vehicle owners whose PUC has expired or going to be expired within one week.

Periodic Calibration of PUC Equipment linked with software and no PUCC can be issued if calibration of equipment is expired.



**385** Teams constituted for checking PUC compliance.



# 44 Smooth Road Traffic Management

**Inter-departmental Task Force : headed by Transport Commissioner.**



## **Lane Driving**

Regular action against buses / four wheeled goods vehicles as per directions of Hon'ble SC.



## **Encroachment removal**

Regular drives on major arterial roads in coordination with local bodies



## **Unnecessary barricading**



## **Intelligent Traffic Management System (ITMS) project:**

MoU signed with C-DAC on 15.03.2022 for preparation of DPR.

C-DAC appointed consultant on 10.05.2022

C-DAC submitted DPR on 24.12.2022.

C-DAC submitted revised version of DPR on 18.04.2023

C-DAC also submitted RFP on 01.05.2023.

On May 6, 2024, File re-submitted with MHA for seeking approval of competent authority i.e. MHA for acceptance of DPR and RFA.

Approval of Competent Authority is awaited.



# 45 Smooth Road Traffic Management

Identification and removal of congestion points

## 1800 +

Officials deployed on daily basis for smooth traffic management

Action against unauthorized parking (Jan, 2024 to Dec, 2024)

## 6,75,532

Challans issued

## 134

Road Stretches  
Identified road stretches with maximum congestion (Transport)

## 10.24 Lakhs

Notices issued

### Multilevel Car Parking

## 28 Available

Multilevel parking near metro stations and at heavily congested sites.

## 6 Added

During Jan - Mar 2024

## 2 Proposed

To be completed by January 2025

Ensuring 100 % utilization is crucial



# 07

## Augmentation of public transport

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# 46 Augmentation of Public Transport

## Strategies

01

Fleet Induction By 2025

03

Ease of using public transport: Common Mobility App

02

Last mile connectivity to DMRC network





# 47 Fleet Induction By 2025



- 7148 buses (Cluster- 3147 (2747 CNG + 400 Electric), DTC 4001 (2369 CNG+ 1632 electric) in place including 2032 E-buses.
- Target to augment total fleet of 10,925 buses including approx. 8000 E buses.
- 1112 electric buses (855 of DIMTS + 257 (12 mtr) buses of DTC) to be inducted by FY 2024-25. 1040 of DTC and 492 of DIMTS AC floor e buses (9 mtr) to be expected by 2024-25
- Out of 1500 busses 1452 buses including phototype are already being inducted to DTC out of which 1332 busses are under operation. Remaining 48 e-busses are likely to be engaged tentatively upto Jan 2025.

# 48 Last Mile Connectivity To DMRC Network

## E-Bus

- 100 E-buses transferred to DIMTS
- Operational- Data to be provided by DIMTS as E-buses transferred to DIMTS
- All 100 e-buses handed over to Tpt. dept./ GNCTD w.e.f. 01.04.2023.

## E-Cycles

- Micro Mobility Vehicles (MMVs) through a mobile app.
- 314 : E-cycles
- Operational across 36 metro stations.

## E-Rickshaw

- Fleet of 45 e rikshaws
- Serving 1865 passengers daily.
- Connectivity: 3 metro stations.

## E-Auto

- DMRC is in process to deploy 1299 e-autos in Delhi.
- 663 of 1299 e- autos shall be driven by women drivers.
- 423 e- autos in Dwarka region (M/s SUN Mobility)
- 34 e- autos (women driver) in Azadpur region and 94 e-autos in Kalkaji region (M/s ETO Motors),
- 20 E-autos in Saket (M/s Mahindra & Mahindra and Amplus Pvt. Ltd), 46 E-autos in Paschim Vihar west region ( M/s Swarn E-Connect) have been made operational.
- DMRC has requested another 1000 e-autos permit from GNCTD.
- Overall 559 E-autos facilitated around 26041 passengers daily from 38 metro stations in July 24



# 49 One Delhi App Common Mobility App



**Live Tracking  
of Buses**



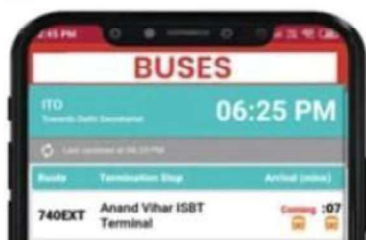
**Buy Online  
Bus Ticket/ Pass**



**Find Electric vehicle  
charging stations**



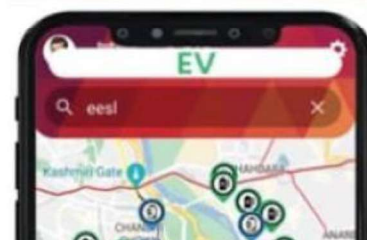
**बसों की लाइव ट्रेक करें**



**संपर्क-रहित टिकट खरीदें**



**इलेक्ट्रिक वाहन (ईवी) के सभी  
चार्जिंग स्टेशन की जानकारी पाएं**



**Premium Bus Aggregator Scheme-** Draft scheme for stage carriage service in satellite town is ready and comments of stakeholders received and cabinet note is being put up. To be operated on CNG or Electric.

**Lifting of cap on Auto Rickshaw registration** for e Autos- Transport Dept to file an application for lifting cap on the registration Autos in respect of e autos.

# 08

## Effective Grievance Redressal

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311 App-MCD

Green Delhi App- Env.



COMPLAINTS



# 50 MCD 311 Application

## Pilot Project on "Abatement of air pollution from non-point dispersed sources"

Pilot Program of CAQM in jurisdiction of MCD in association with NGO using 311 app.

Types of complaints dealt:

- Removal of malba & garbage, Road repair
- Prevention of dust from C&D, garbage/ biomass burning, Action on visibly polluting industries
- Greening of brown spaces

### Status Of MCD 311 App As On 07<sup>th</sup> Jan, 2025

| Agency       | Total Issues  | Total Pending | Short Term   | Long Term    | Pending %  |
|--------------|---------------|---------------|--------------|--------------|------------|
| MCD          | 147021        | 14128         | 10425        | 3703         | 10%        |
| PWD          | 72132         | 10632         | 6849         | 3783         | 15%        |
| I&FC         | 17777         | 8866          | 3443         | 5423         | 50%        |
| DDA          | 15006         | 6642          | 6349         | 293          | 44%        |
| DJB          | 14560         | 4006          | 3407         | 599          | 28%        |
| DSI IDC      | 7092          | 3294          | 2179         | 1115         | 46%        |
| Others       | 20279         | 4041          | 3881         | 160          | 19%        |
| <b>TOTAL</b> | <b>293867</b> | <b>51609</b>  | <b>36533</b> | <b>15076</b> | <b>18%</b> |

51

## DPCC/Environment Department Green Delhi App

An innovative platform for submission of pollution related grievances, launched in Oct, 2020 and relaunched in September, 2024.

User friendly mobile based app for citizens and agencies.

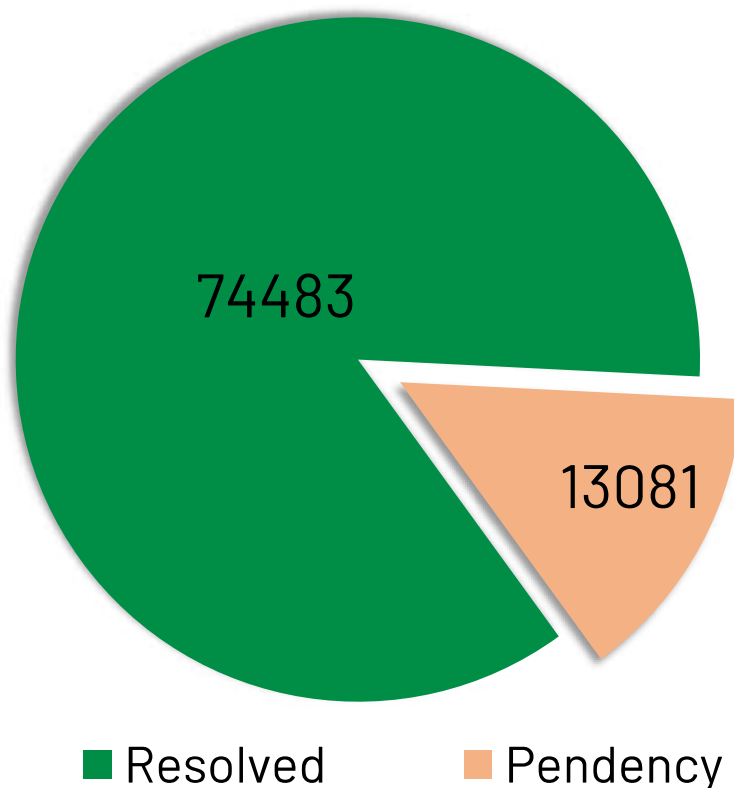
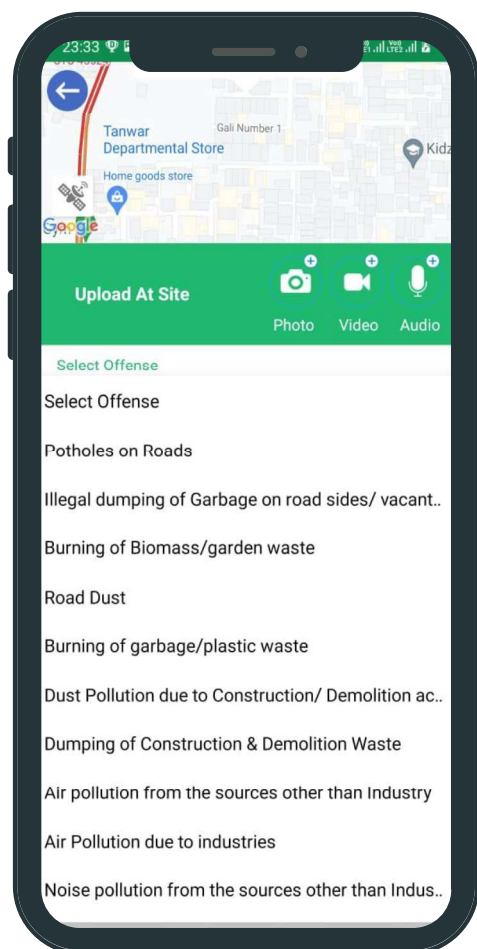
24 x 7 Green War Room established for inter departmental coordination.

87564

**Total grievances received since Oct, 2020  
As on 16.01.2025**

85.06 %

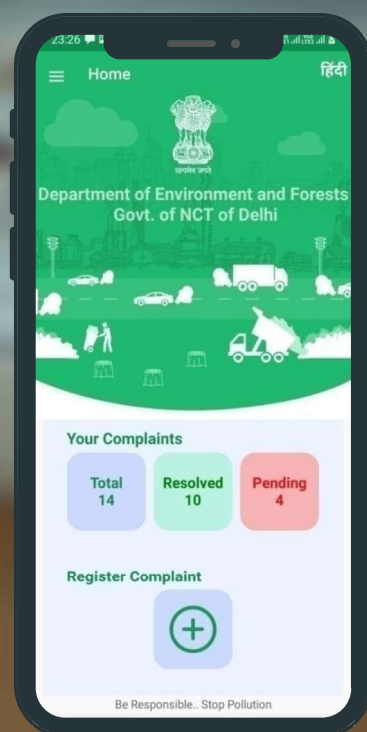
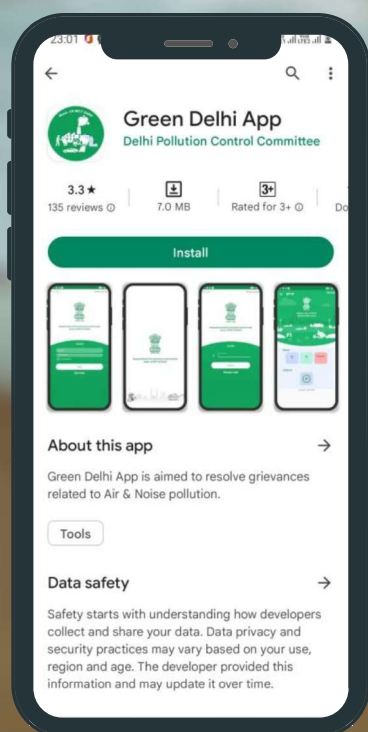
**Resolution Percentage**



# 52 DPCC/Environment Department Green Delhi App

## Green Delhi App - Department Wise Complaints Report As on 16.01.2025 11 AM of Major Departments

| S No | Department                           | Total | Pending | Pending % | Overdu e |
|------|--------------------------------------|-------|---------|-----------|----------|
| 1    | Municipal Corporation of Delhi (MCD) | 56474 | 9619    | 17.03     | 9482     |
| 2    | Public Works Department (PWD)        | 13296 | 2397    | 18.03     | 2117     |
| 3    | Delhi Development Authority (DDA)    | 4824  | 397     | 8.23      | 393      |
| 4    | Irrigation & Flood Control (IFC)     | 2030  | 121     | 5.96      | 121      |
| 5    | Delhi Jal Board (DJB)                | 3064  | 64      | 2.09      | 64       |



# 09

## Greening and Plantation Program

---





# 53 Implementation of Greening Action Plan, 2023-24

## Greening and Plantation Program

### FY- 2023-24 Targets

**102.04 Lakhs**

Total Target

Plantation target : 95.04 Lakhs

Free distribution target: 7.00 Lakhs

### FY- 2023-24 Achievements

**88.53 Lakhs**

**86.76 %**

Achievement till Mar 2024

Plantation done: 80.41 Lakhs

Free distribution done: 8.12 Lakhs

### FY- 2024-25 Targets

Plantation target : 56.40 Lakhs

Free distribution target: 7.74 Lakhs

**64.14 Lakhs**

Total Target

### FY- 2024-25 Achievements

Plantation done: 56.07 Lakhs

Free distribution done: 8.12 Lakhs

**64.19 Lakhs**

**100 % Achieved**



# 10

## Abating pollution from DG sets

---



# 54

## Abating Pollution From DG Sets

### Uninterrupted power supply

Delhi has very reliable power supply with almost negligible power outage.

Delhi is heavily power surplus in winters (Oct- Feb)

DISCOMs directed to provide daily reports on power outage, to check the interrupted power supply.

CAQM Direction no. 73 : Schedule for regulation of DG Sets would come into force in the entire NCR strictly w.e.f 01.10.2023 and retro-fitment of dual fuel kits or ECDs must be targeted to be completed latest by 30.09.2023 failing which use of DG set shall not be permitted under any circumstances.

Industrial associations sensitised regarding installation of retrofit emission control devices (RECD) on DG sets.

Total 3450 DG sets as on 02.01.2025 are working in Delhi.

### Enforcement data (since 01.01.2024 till 31.12.2024)

- No. of inspections conducted regarding unauthorized DG sets at construction sites: 7890
- No. of sites found using unauthorized DG Sets: 2
- Fine imposed: Rs. 20,000/-



# 55 Complete Ban on Firecrackers

## Directions

**Direction under EP Act issued on 19.12.2024 :**

**"Complete ban"** on manufacturing, storage, selling (including delivery through online marketing platforms) and bursting of all kind of fire crackers in NCT of Delhi throughout the year with immediate effect.



Manufacturing



Storage



Sales  
(including online)



Bursting



# 11

## **Other actions under GRAP Stage III and Stage IV**

---



# 57 Action against Non- Destined trucks

W.e.f. 14.11.2024, all buses originated from NCR district in the respective states and plying to Delhi will be either EV or CNGs or BSVI diesel.

Transport Department/ Traffic Police  
Department of GNCTD 18 Teams of 6 each in  
borders deployed

No. of Non-destined trucks to Delhi, diverted  
through Eastern & Western Peripeheral : 120519  
during stage I , stage II ,stage III and Stage IV of  
GRAP

No of Days under GRAP:

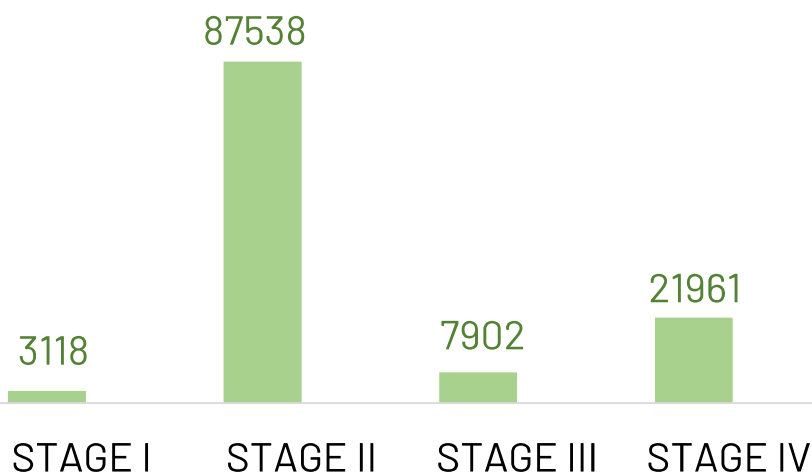
Stage I : 7 days

Stage II : 46 days

Stage III : 10 days

Stage IV : 26 days

■ No. of Non-desned  
trucks to Delhi,  
diverted



**Period : Jan, 2024  
to Dec, 2024**

452833

10.92%  
Returned

No. of goods  
vehicles  
checked for  
non-destined

49484

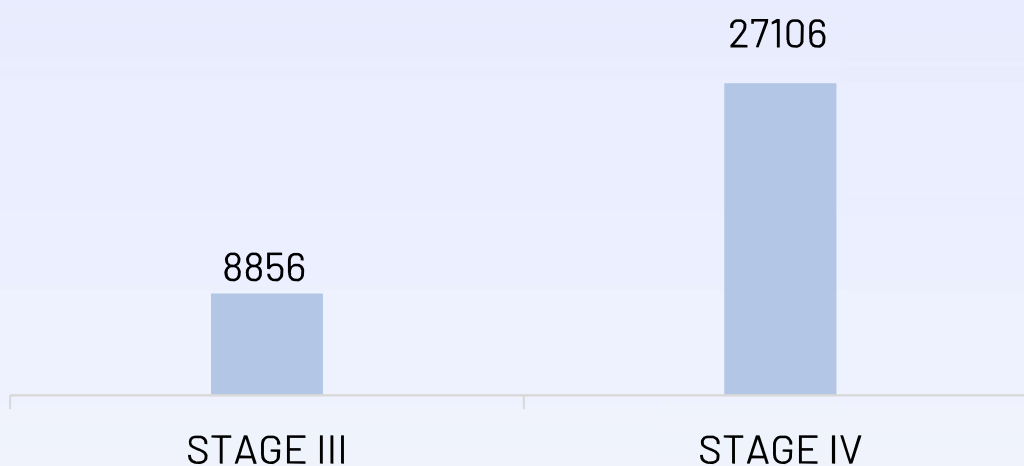
No. of non  
destined  
goods  
vehicles  
returned

# 58

## Ban on plying of BS III Petrol/ BS IV Diesel LMVs (Stage III and Stage IV)

**Stage III : 13 days**  
**Stage IV : 29 days**  
**As on: 16.01.2025**

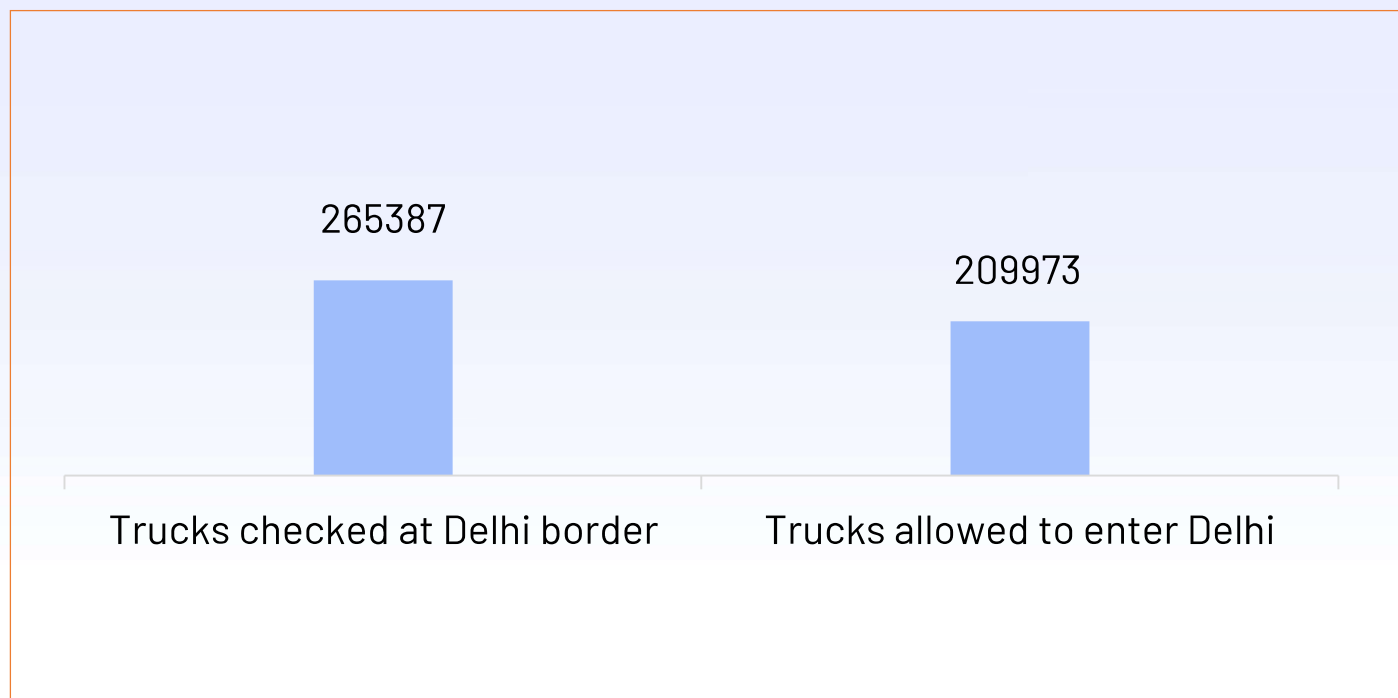
**Challans issued for Ban on plying of BS III Petrol/ BS IV Diesel LMVs: 31209**



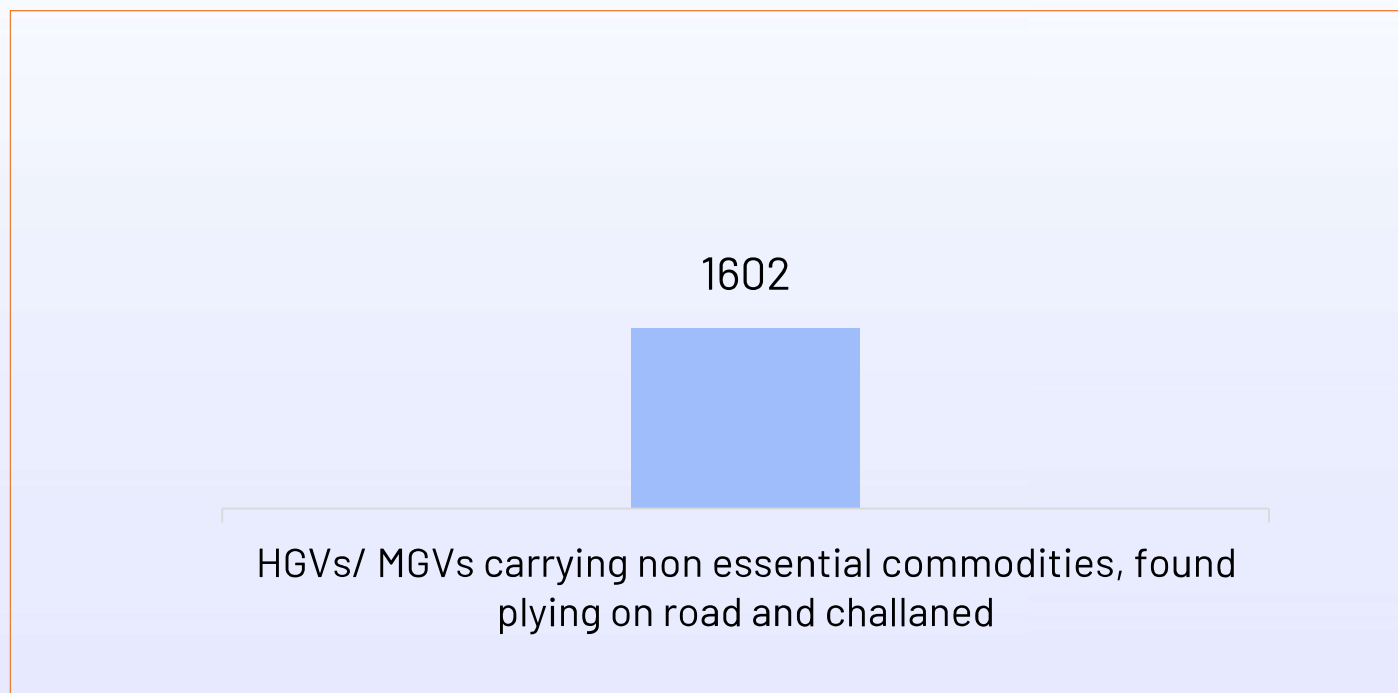
**59**

## Ban on plying of Trucks and LCVs (Stage IV)

**Stage IV: 29 days  
As on 16.01.2025**



## Ban on plying of HGVs /MGVs (Stage IV)





# 60 Additional fleet and increasing frequency of service

## During winter 2023-24

### ■ DMRC

- DMRC has operated additional 40 trips (for all lines) on weekdays.
- Operated additional 20 trips as and when GRAP Stage-III & higher was enforced i.e. 60 additional trips for all lines in weekdays.

### ■ DTC

- Extra shuttle service with 126 buses and 2700 trips (856-Duty Trips (M+E)) w.e.f 01/11/23 till AQI/ environmental condition was normalised.
- Special Service *Paryawaran Sewa* planned

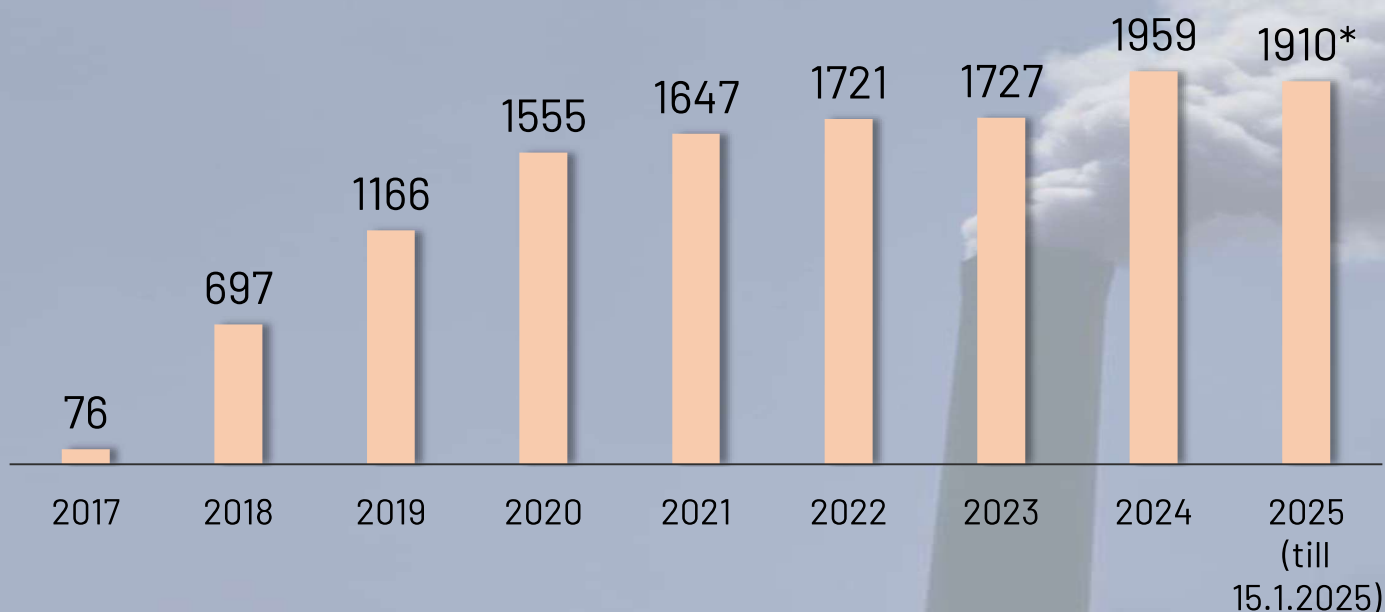


## 61

## Industrial Pollution Control

## Shift to cleaner fuel

Progress in conversion of industrial unit to PNG till 31<sup>st</sup> Dec, 2024



\* 49 industries have shifted from Delhi

- All the units have been directed to use only PNG, wherever available.
- No polluting fuel is permitted other than approved fuels including PNG/ Electricity/ LPG.
- All industries which are using fuel have to operate their industry on approved fuels as per CAQM [Direction No. 65 dated 23.06.2022](#).
- 2047 are with approved fuel (including 1959 already converted to PNG and remaining 124 are running on approved fuel )
- Strict compliance on use of PNG by monitoring gas consumptions.

# 62 Major point sources {inventorization}

## Anand Vihar Hotspot



Targeting major point  
air pollution sources



Department of Environment  
Govt. of NCT of Delhi

Department of Environment  
Govt. of NCT of Delhi



## Pollution Sources at Anand Vihar

1. RRTS construction near metro station
2. C&D site on DDA land behind ISBT, Anand Vihar (between stretch Anand Vihar & Karkadooma)
3. C&D site behind Kaushambi ISBT by PWD
4. ISBT Terminal bus exit road; diesel bus congestion
5. Road traffic congestion at exit point of railway station
6. MCD unpaved parking
7. Road traffic on Chaudhary Charan Singh Marg
8. Dumping of C&D waste on Swami Dayanand Marg
9. Patparganj Industrial Area
10. UP Roadway Bus Terminal Kaushambi (UP)
11. Construction activity nearby Surya Nagar Red light (UP)
12. Sahibabad Industrial Area (UP)

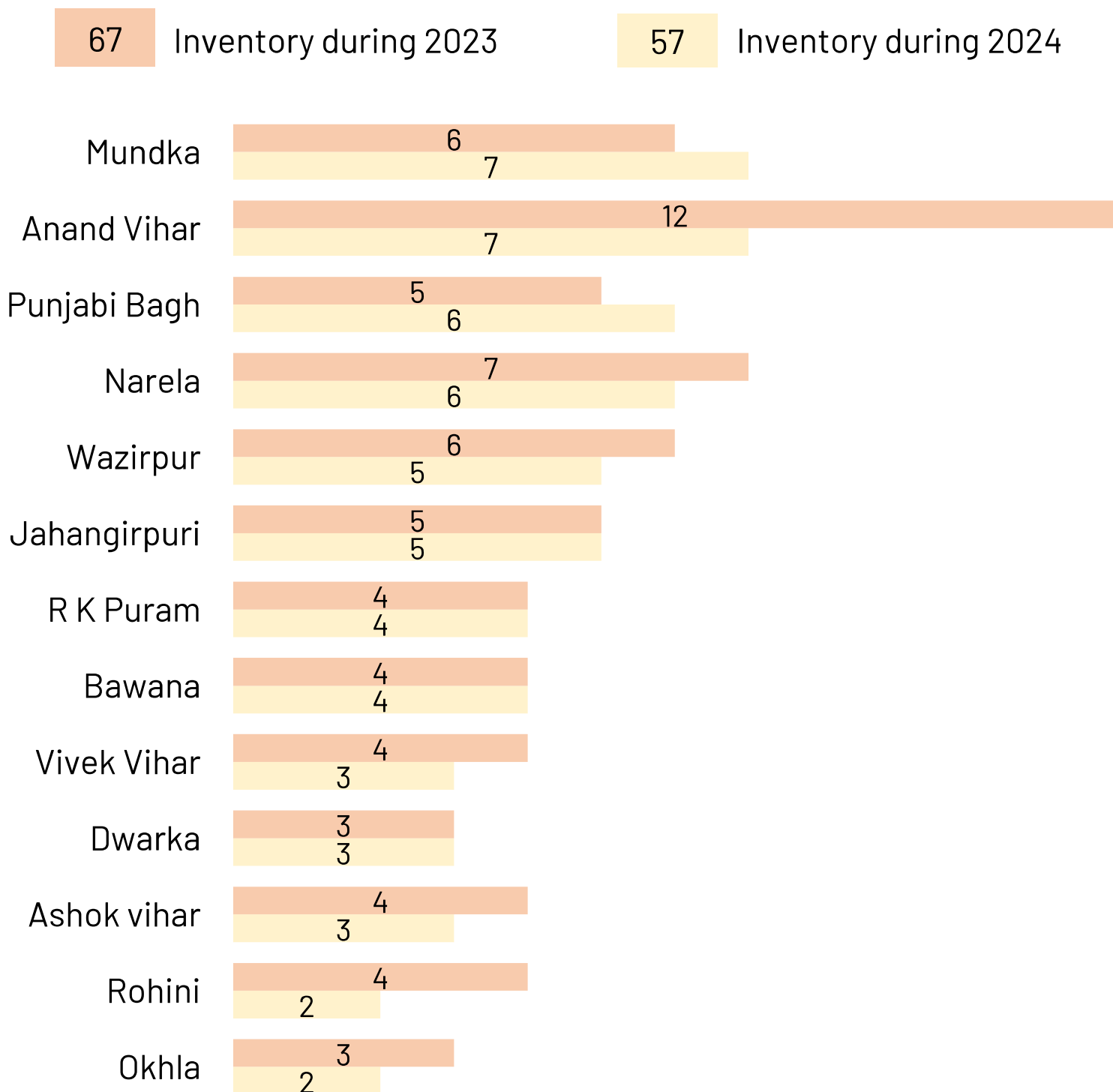
# An example of Inventorization of major point pollution source : Anand Vihar

| Hotspot Name |   | ANAND VIHAR   | Nodal JEE (Sh. Amritanshu : 7703890801) |  |
|--------------|---|---|---|--|
| S. No.       | Identified Sources of Pollution / Regarding             | Actions which can be taken at this Hotspot  | Concerned Departments                   | Concerned Officials  |
| 1            | Exit Road of Anand Vihar Bus Station                    | Transport Department to pave the road and till the road is paved the sprinkling is to be done on immediate basis and Action Taken Report (ATR) to be submitted.   | DTIDC, Transport Department GNCTD       | Sh. S K Rai (DTIDC) - 8957301780<br>Sh. Rajesh K. Sharma (DTIDC) - 9717788086<br>Sh. Dimple Saini (DTIDC) - 9717694984<br>Sh. Rakesh Vaid (Transport) - 9999603111<br>Sh. Yogesh Jain (Transport) - 9599777103 |
| 2            | Stoppage of bus at exit road                            | Transport department to work on RFID system till then the location of Receipt Counter of exiting buses to be changed to avoid stoppage of buses.  |   |  |
| 3            | Commuting buses   | Pollution level of buses is to be checked that are coming towards Anand Vihar.  |   |  |
| 4            | Decongestion of Main Road (Chaudhary Charan Singh Marg) | Delhi Traffic Police to co-ordinate with local police for decongestion and encroachment removal from road and also to regulate (no stopping of 3-wheelers and local buses and also the traffic lanes be made pedestrian friendly) the traffic for seamless traffic flow on Chaudhary Charan Singh Marg. | Delhi Traffic Police                    | Smt. Manju Singh (Traffic Police) - 9971896359   |



# 63

## Redressal of pollution sources at hotspots (Hotspot action plan)



Major pollution sources during 2023 & 2024

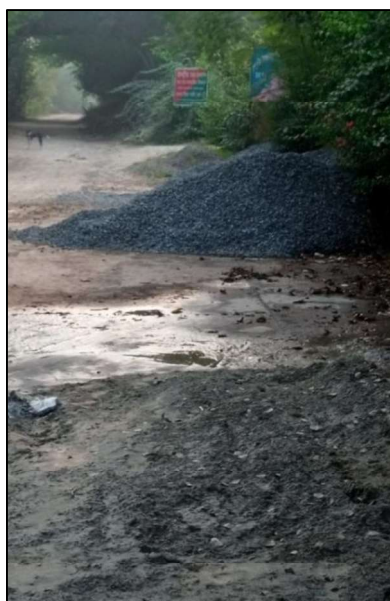
# 64 Inventorization of Dispersed air pollution sources at Hotspots

Department of Environment, GNCTD inventorised and mapped around **4555+ major and minor point** air pollution sources

**On-boarded on Green Delhi App during 2<sup>nd</sup> Half of 2023**

**2800+ resolved during 12th May 2023– 09<sup>th</sup> Jan 2025**

Includes dumping of plastic waste/ garbage/ malba/ construction and demolition waste, unpaved roads/ roadsides, patches and pot holes, congested traffic points, road dust, construction & demolition sites, vulnerable municipal solid waste burning, non-paved parking sites, air polluting industrial units, etc.

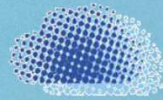








Department of  
Environment, Govt. of NCT of Delhi



International Day  
of Clean Air for blue skies

