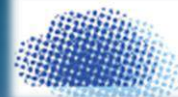




Department of Environment,
Govt. of NCT of Delhi



International Day
of Clean Air
for blue skies

Management interventions to mitigate

Air Pollution in Delhi



April, 2025



Air Quality in Delhi

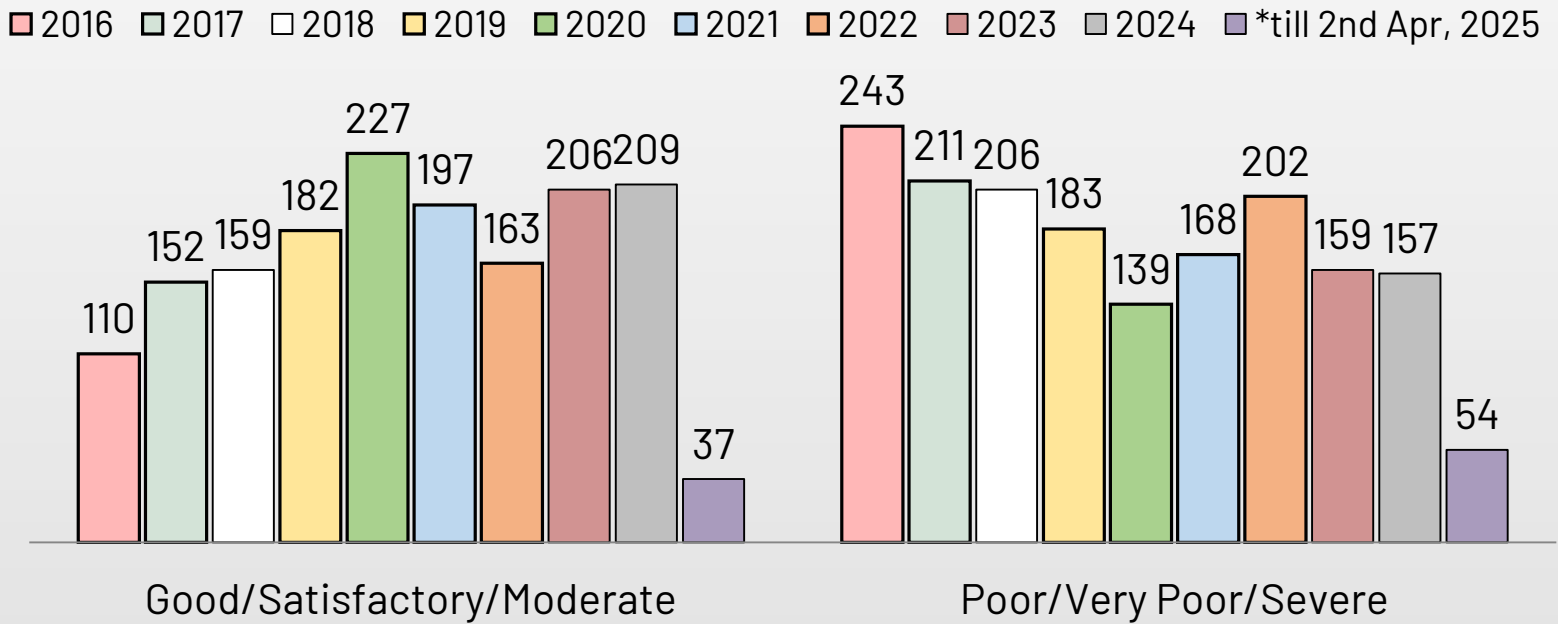




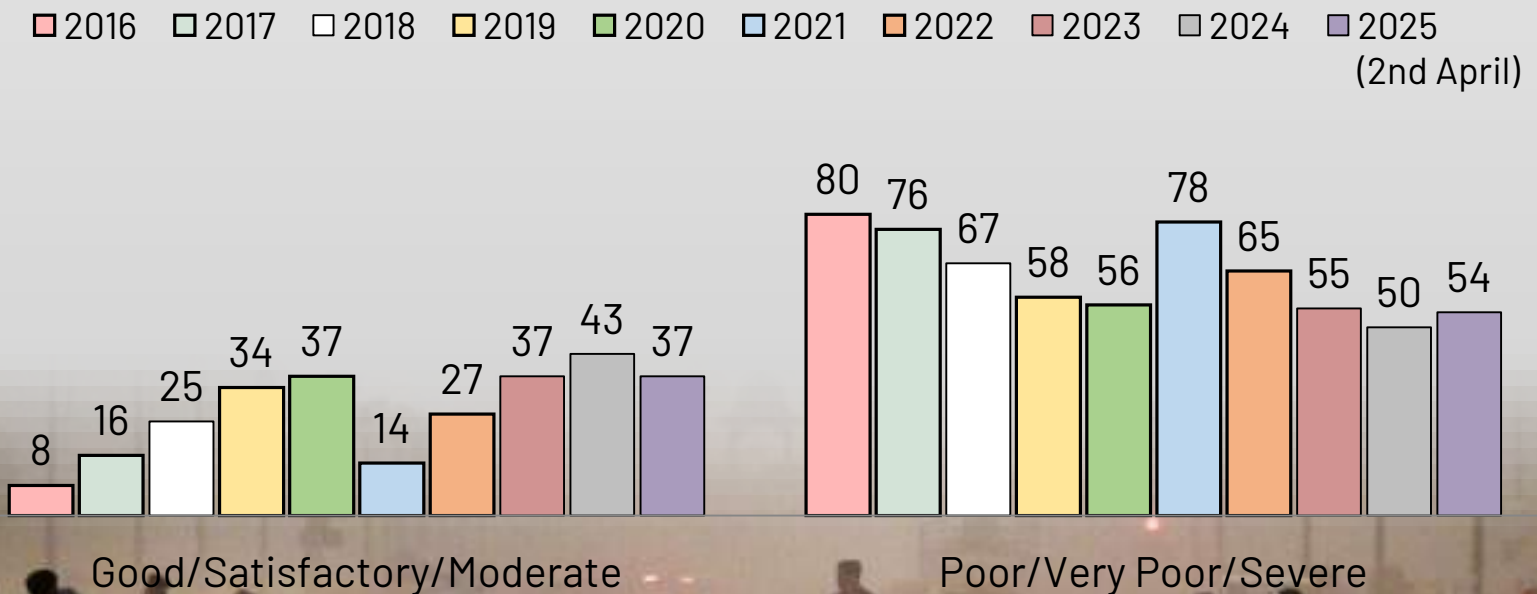
01

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 1st January to 2nd April (2016-25)



Good Satisfactory Moderate Poor Very Poor Severe Severe +

50 100 200 300 400 450

02

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

Period : October to February (Winter Season)

■ 2016-2017

■ 2017-2018

■ 2018-2019

■ 2019-2020

■ 2020-2021

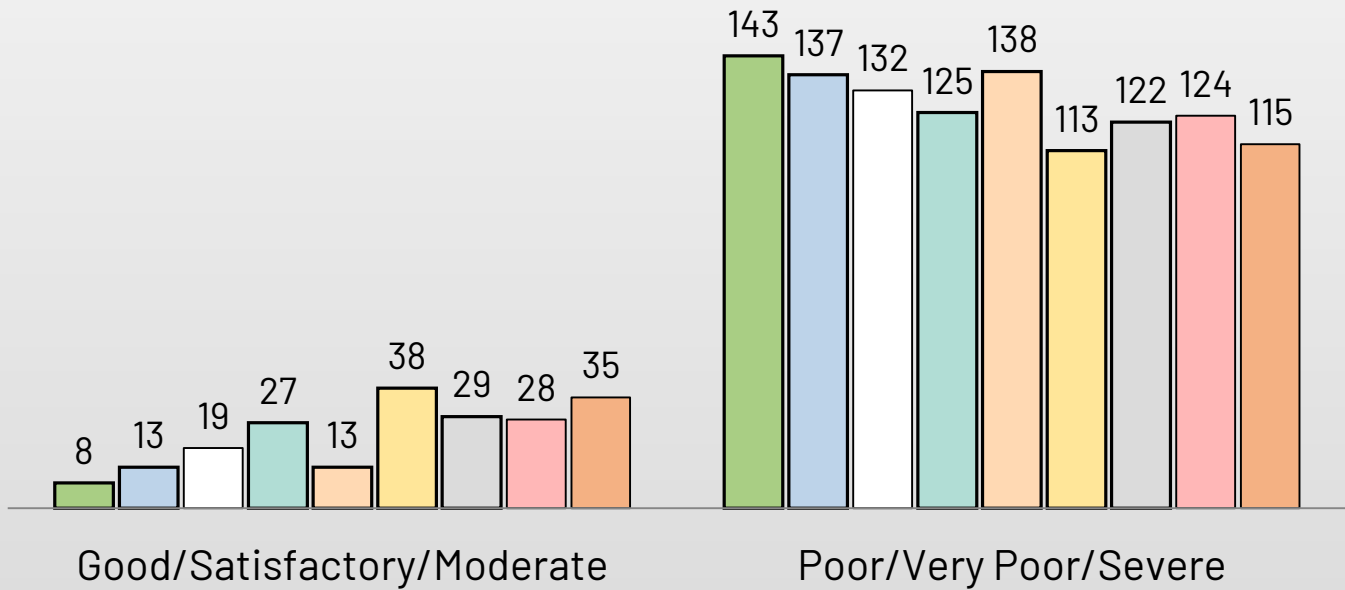
■ 2021-2022

■ 2022-2023

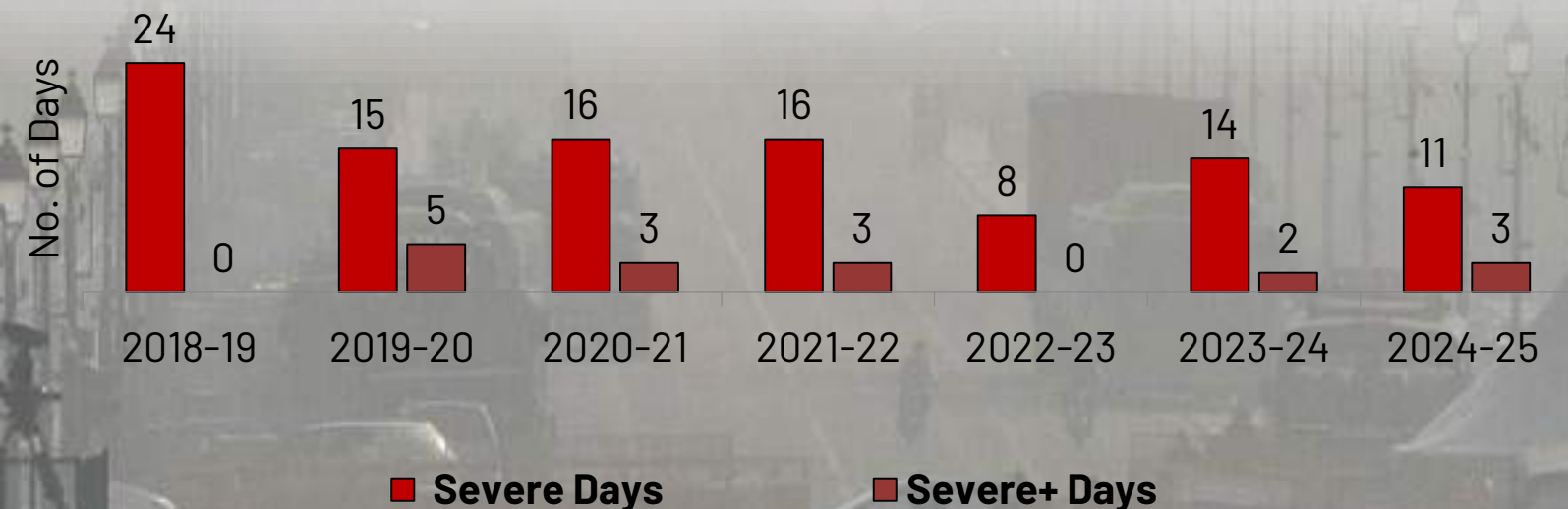
■ 2023-2024

■ 2024-2025

Days according to Air Quality Index in Delhi During Winter Season October to February



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



■ Severe Days

■ Severe+ Days

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 _{2.5} |
| 2 | PM ₁₀ |
| 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

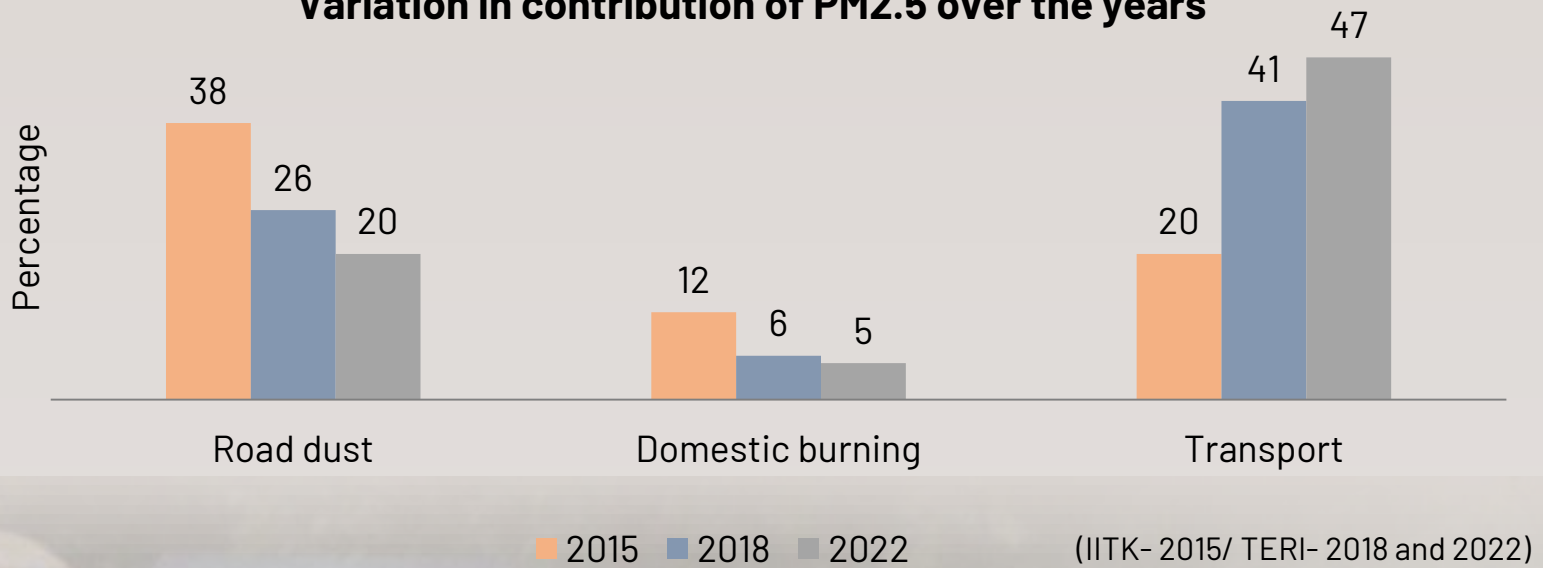


Prepared By
Department of Civil Engineering
Indian Institute of Technology Madras
&
Department of Civil Engineering
Indian Institute of Technology Delhi

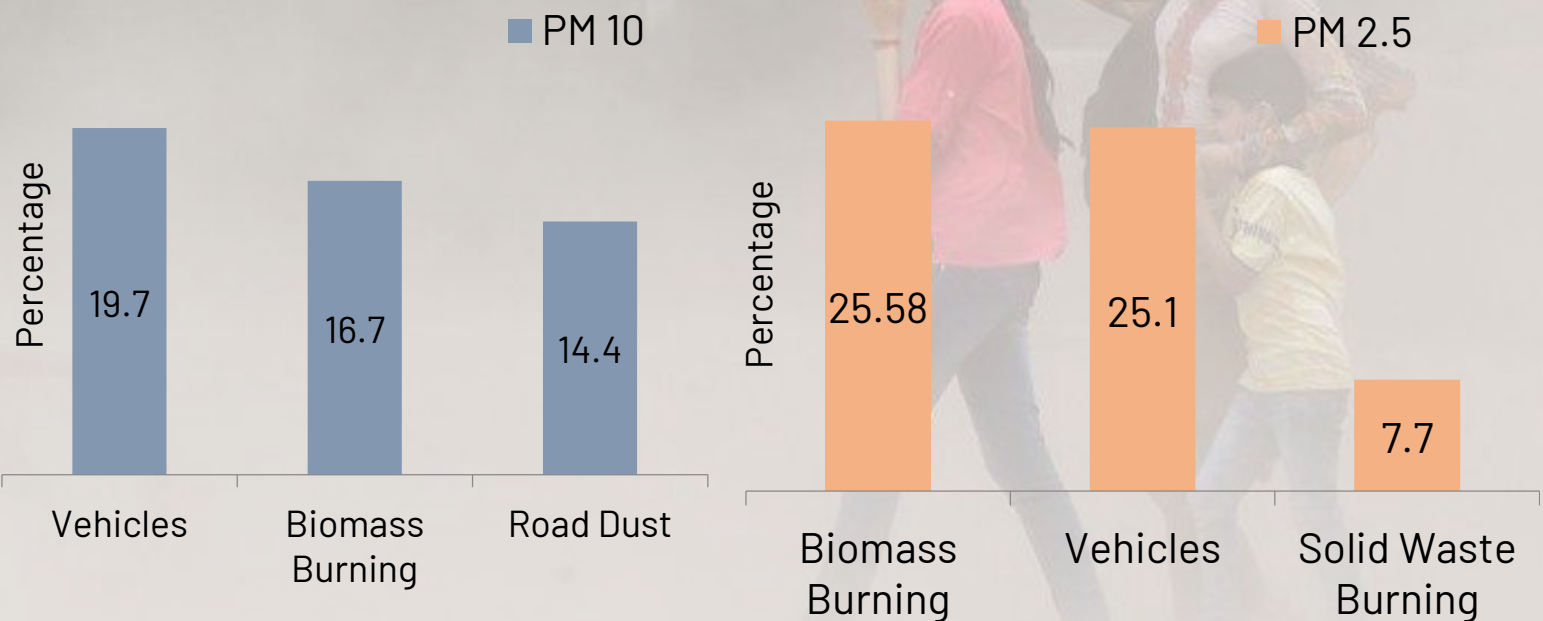


05 Emission inventories

Variation in contribution of PM_{2.5} over the years

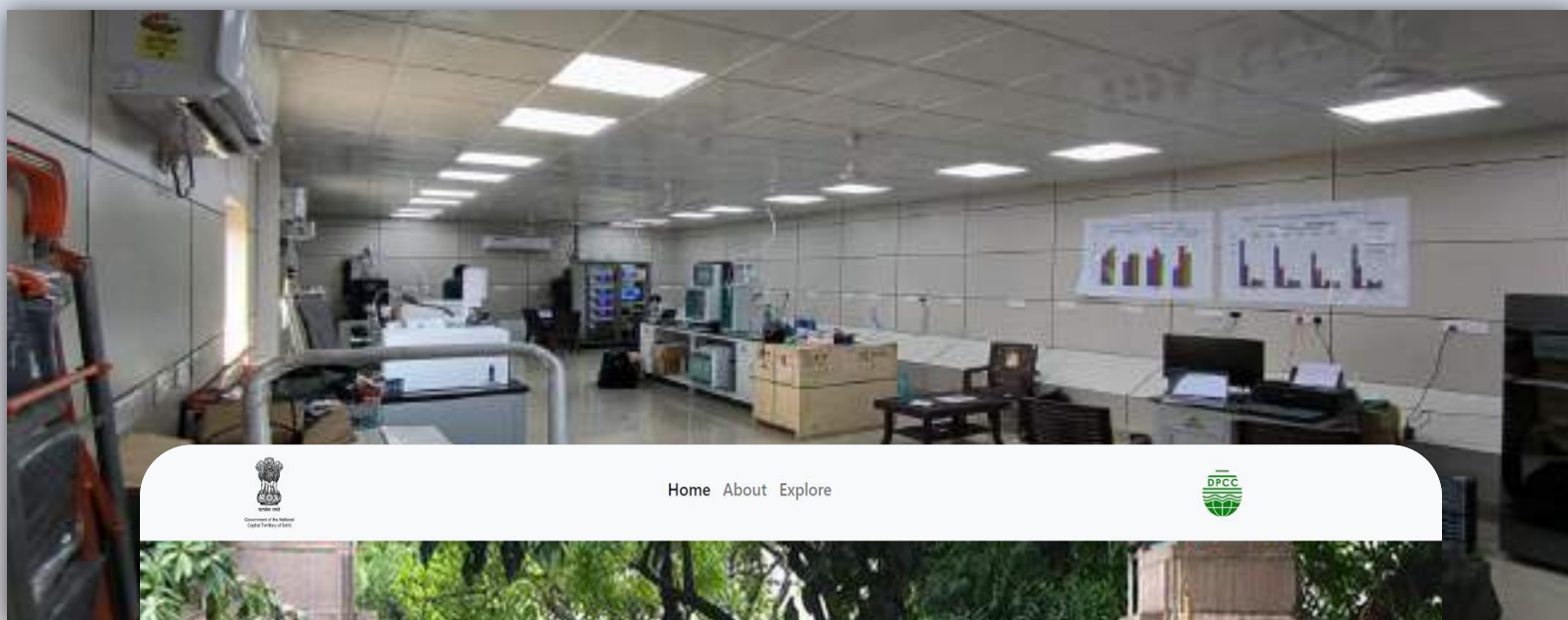


PM₁₀ and PM_{2.5} Percentage contribution from top 3 Specific Sources (Winter months)



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 14th Oct). Revised GRAP dated 13.12.2024 is enforced this Winter 2024 – 25.

Total no. of Days in GRAP stage (2024-25) (till 03.04.2025)

| I | II | III | IV |
|----|----|-----|----|
| 29 | 82 | 17 | 27 |

Stage I

Poor

AQI

201-300

Oct 14 - Oct 20, 2024
Feb 24 - Mar 2, 2025
Mar 7 - Mar 14, 2025
Mar 24 - Mar 28, 2025
Apr 2, 2025 onwards

Stage II

Very Poor

Poor

AQI

301-400

Oct 21 - Nov 13, 2024
Dec 5 - Dec 15, 2024
Dec 27, 2024 - Jan 2, 2025
Jan 5 - Jan 8, 2025
Jan 12 - Jan 14, 2025
Jan 17 - Jan 28, 2025
Feb 3 - Feb 23, 2025

Stage III

Severe

AQI

401-450

Nov 14 - Nov 16, 2024
Dec 24 - Dec 26, 2024
Jan 3 - Jan 4, 2025
Jan 9 - Jan 11, 2025
Jan 16, 2025
Jan 29 - Feb 2, 2025

Stage IV

Severe+

AQI

> 450

Nov 17 - Dec 4, 2024
Dec 16 - Dec 23, 2024
Jan 15, 2025

OUTLINE

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

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



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



Dust Pollution Control Self Assessment, DPCC

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



9

Development of Extensive C&D Waste Processing Facilities

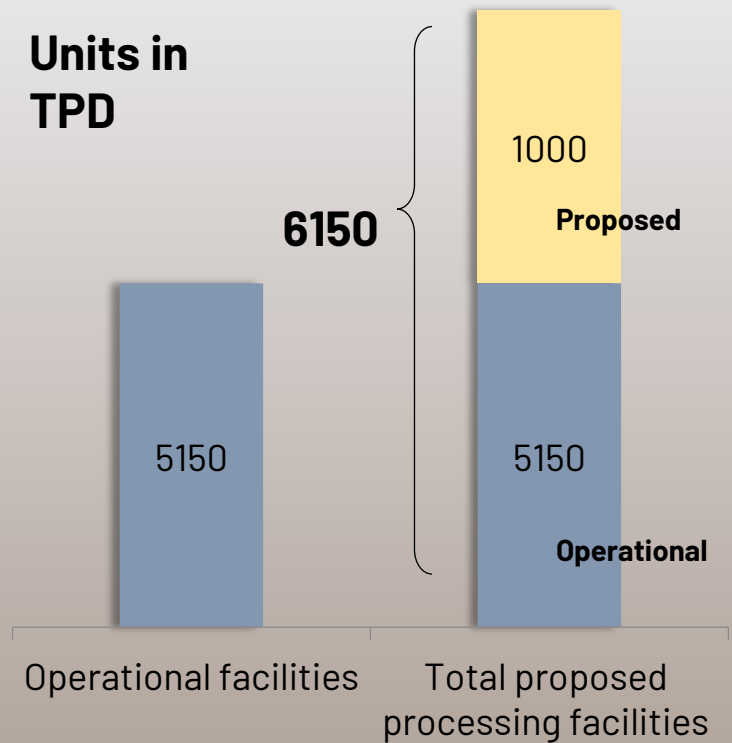
C&D waste generation approx. 6000 TPD in Delhi.

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 (1000TPD) , 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.

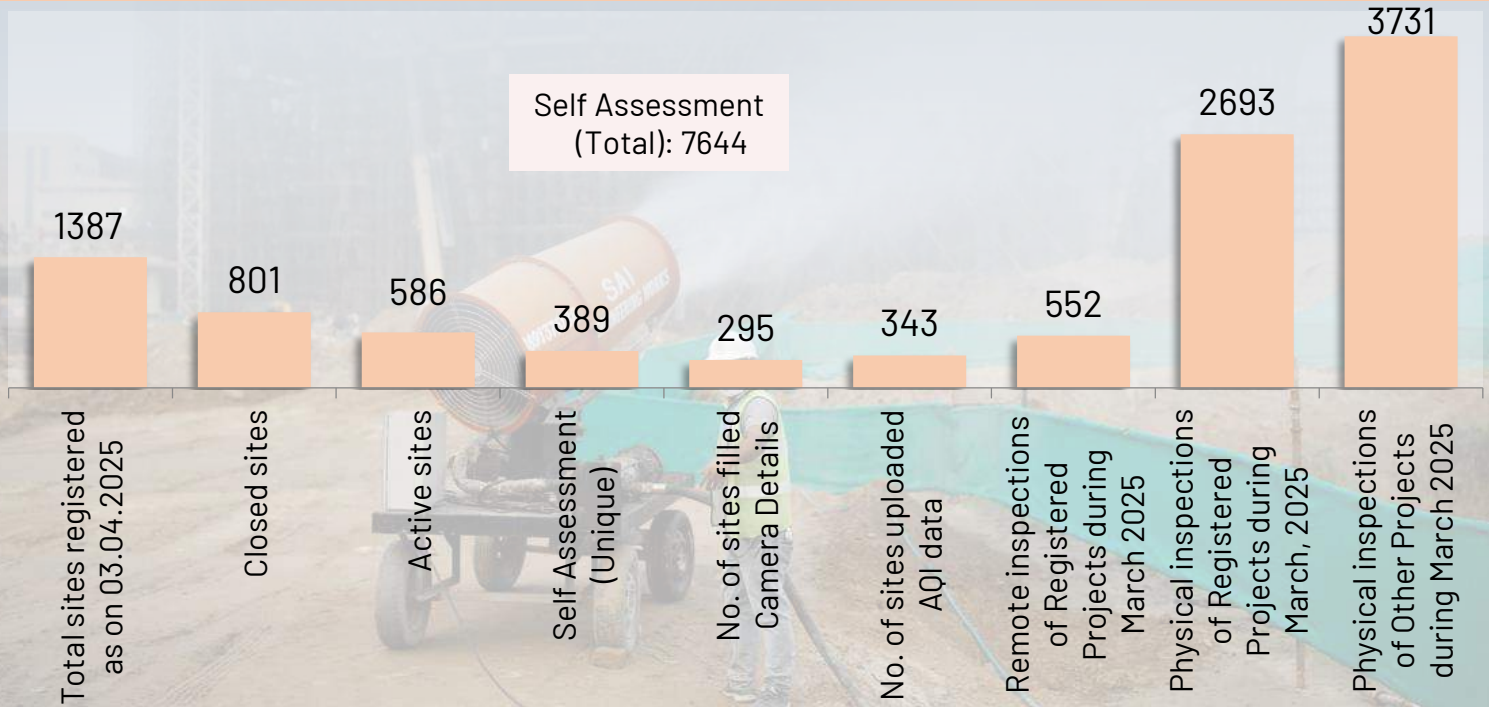
Deployment of adequate numbers of anti-smog guns, in proportion to the area of the construction sites (as per CAQM Policy).

| Built up area | At least No. of Anti Smog Gun |
|-------------------|-------------------------------|
| 5,000-10,000 Sqm | 01 |
| 10,001-15,000 Sqm | 02 |
| 15,001-20,000 Sqm | 03 |
| > 20,000 Sqm | 04 |

510

Deployment of **510 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.

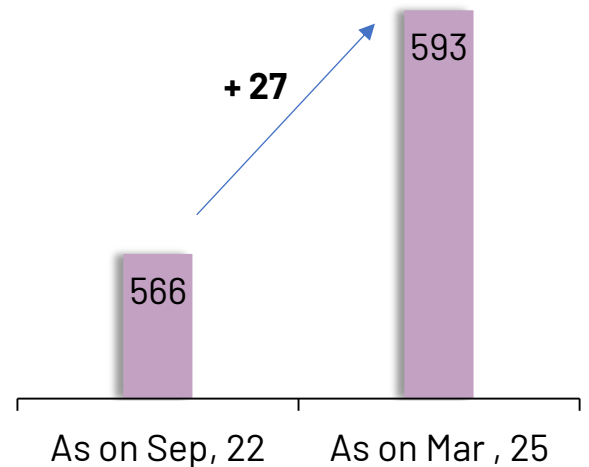
Capacity building of all stakeholder departments held on Apr, 2023 and Sept, 2023 and Apr, 2024 on registration and review of self-assessment reports followed by personal hearings to more than 1193 PPs to resolve issues related to C&D portal.

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

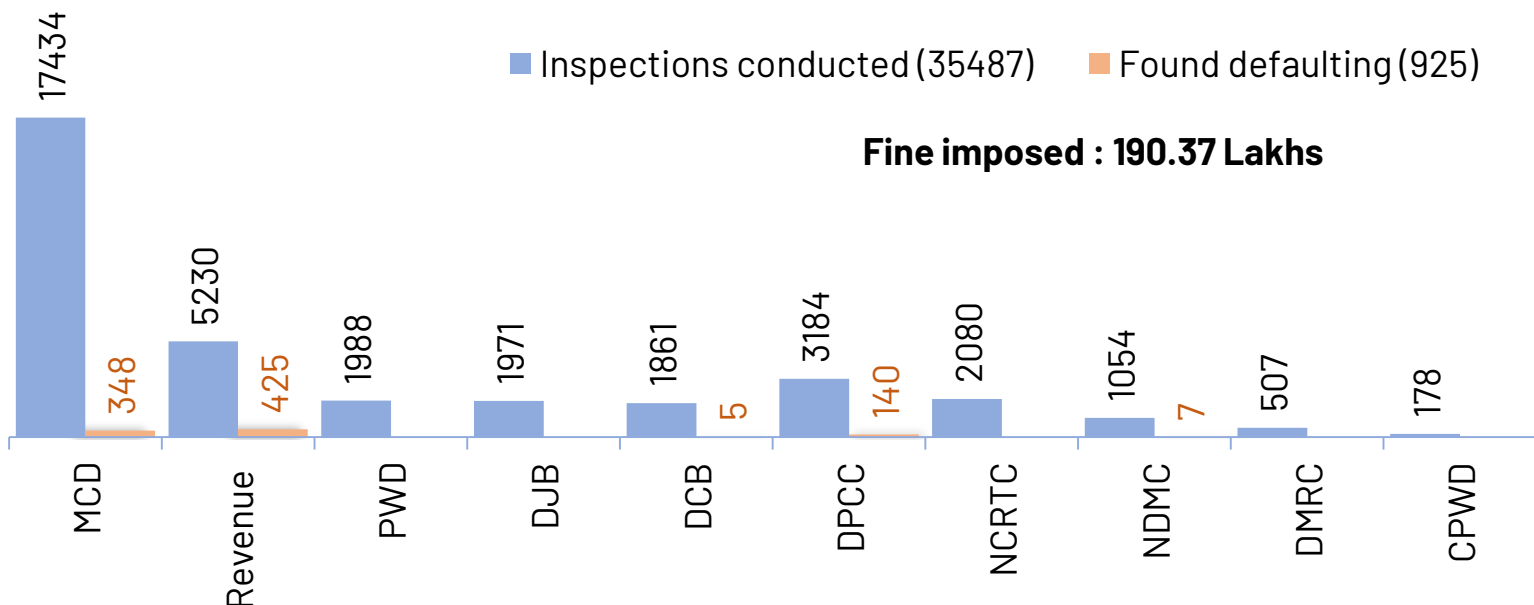
Regular review of self-audit of construction sites registered on DPCC's Dust Assessment portal

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

No. of active sites registered on portal



Enforcement : Oct, 2024 to Mar, 2025



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



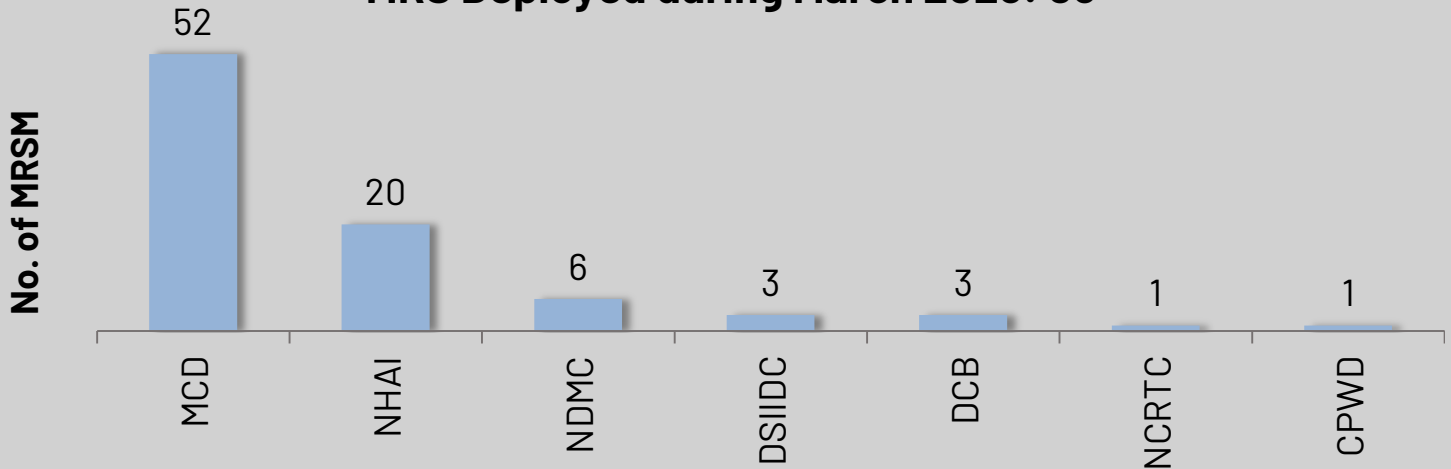
Review of Functioning of Dust Control Management Cells



14

Deployment of MRS Machines

MRS Deployed during March 2025: 86



Covering 35 Km/MRS/Day

Ensuring scientific disposal of dust collected

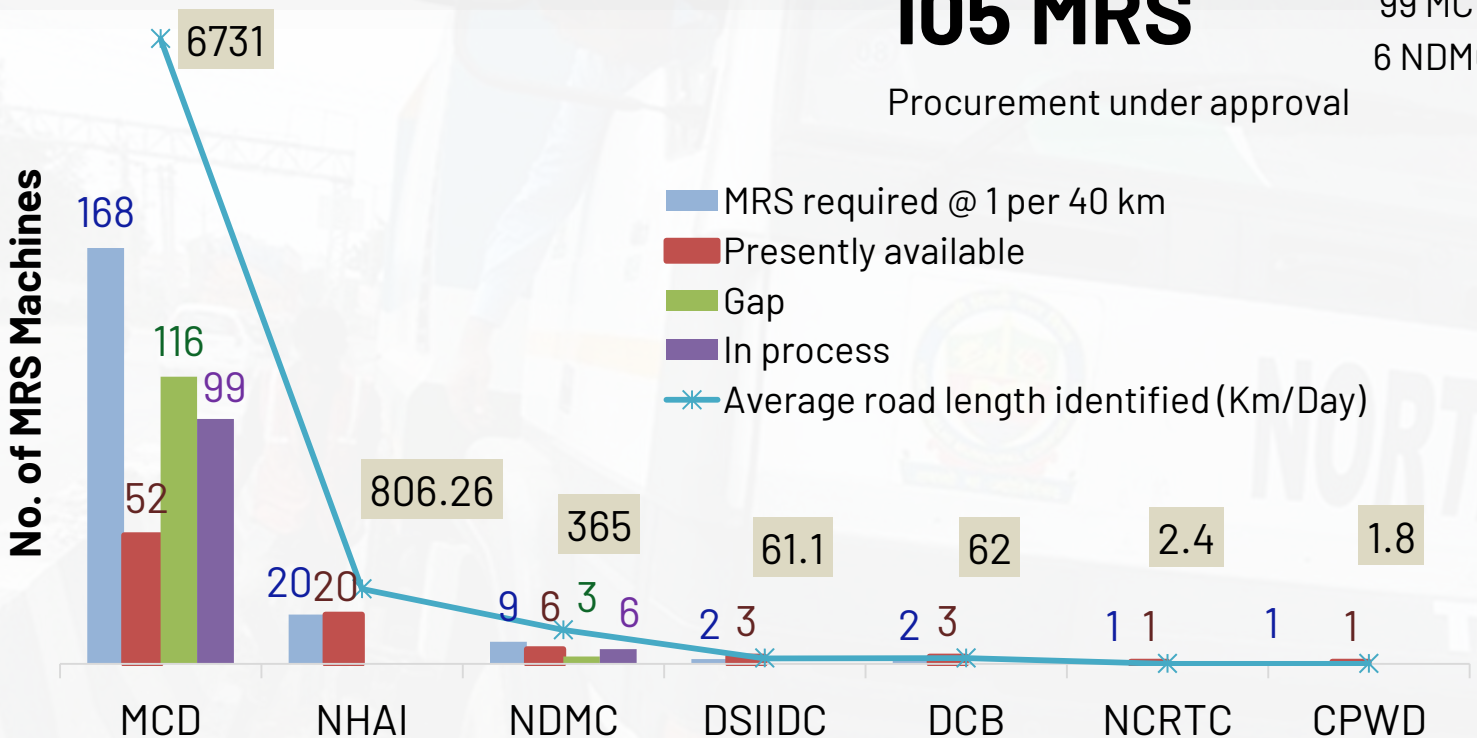
MRSM: Gap in MRS Machines

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 (159.1 MT/Day)



Disposed at:

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

Site wise average quantities disposed daily by MCD and NDMC:

- Okhla - 52.25 MT/Day
- Bhalaswa - 55 MT/Day
- Ghazipur - 41.25 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



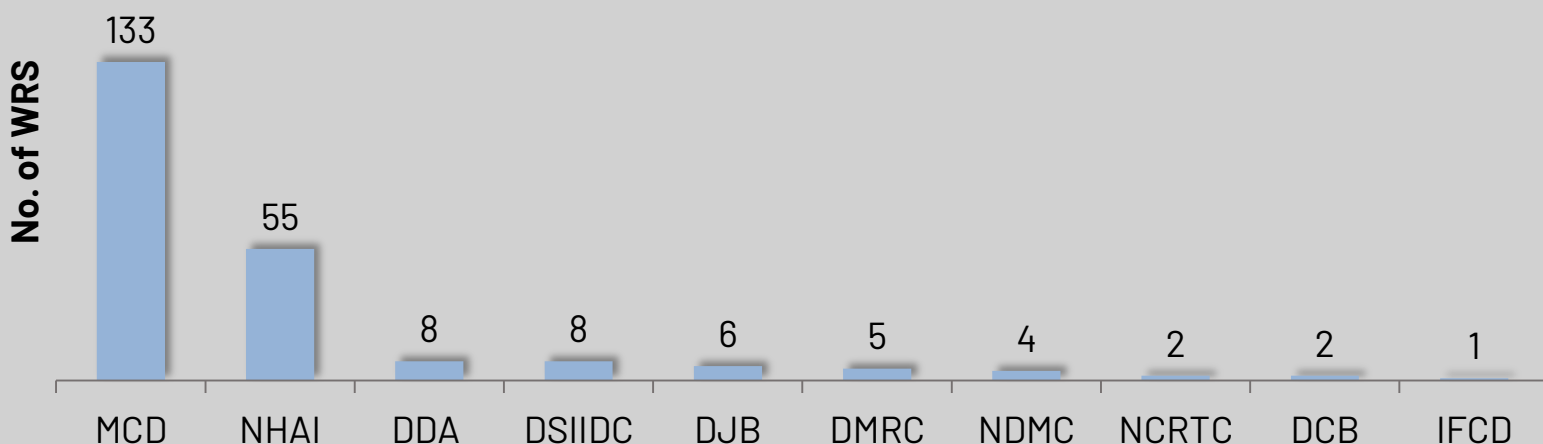
70 Mechanical Road Sweeping (MRS) Machines integrated with
210 Water Sprinkler Machines and Anti-Smog Gun,
18 Dump Vehicles and 18 Water Tankers

7
Years

17

Deployment of Water Sprinklers

**Average (per day) WS Machines Deployed in March 2025
(including water tankers): 224**



1994.374Km/Day

Average Road length covered per Day.

Water Sprinkler Capacity range : 1000- 10000 Liters

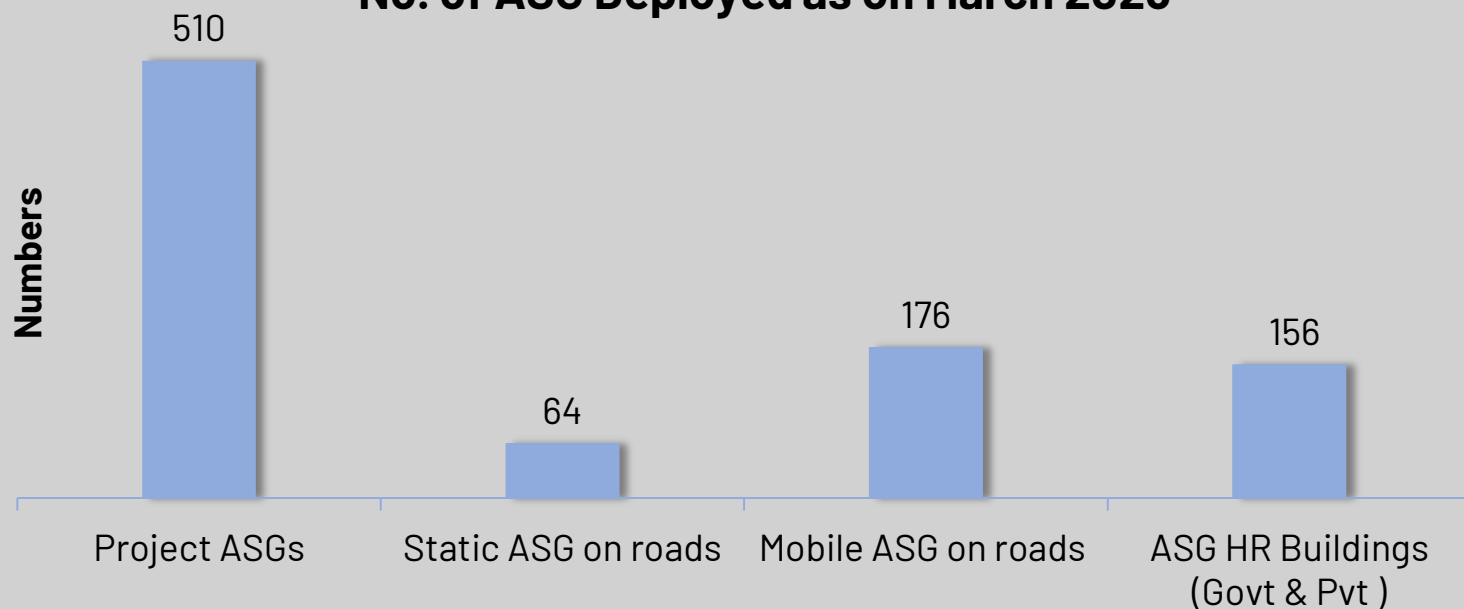
Dust suppressants trials done by ULBs



18

Deployment of Antismog Guns

No. of ASG Deployed as on March 2025



19

Deployment of Mobile ASG Hotspot Wise

200

Mobile ASGs

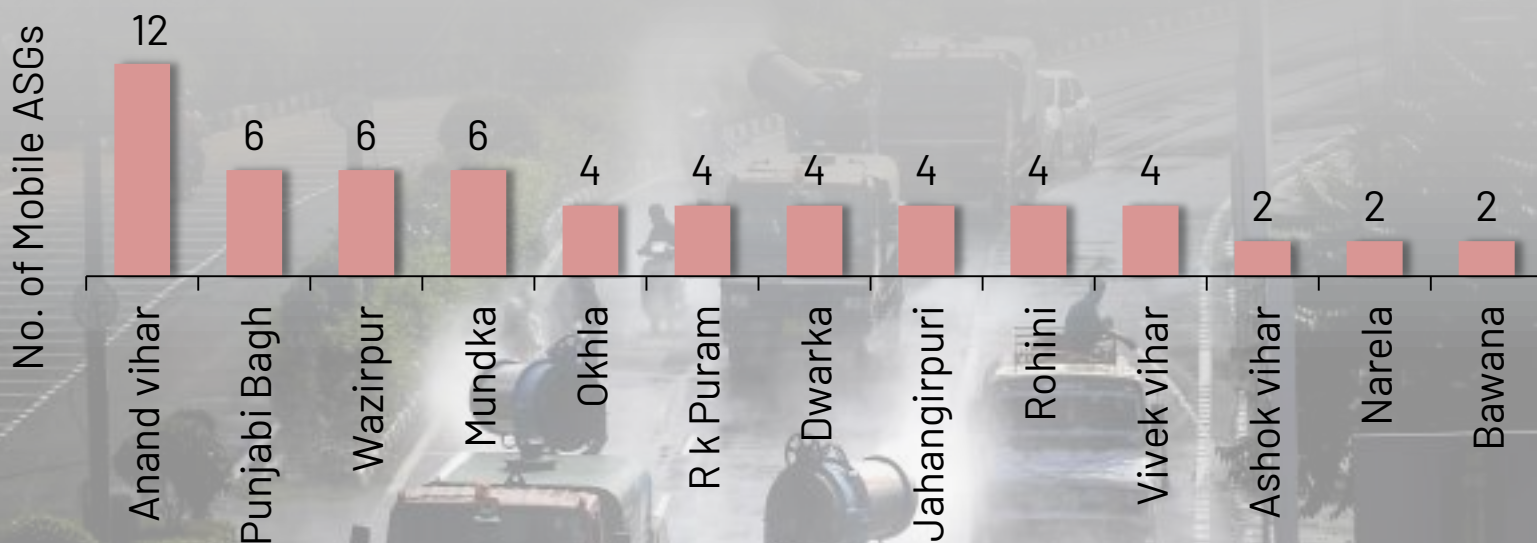
About Rs 40 Cr released during
2023-2024

**Earmarked Rs. 60 Cr. for
2024-25**



60

Mobile ASGs in
hotspot areas

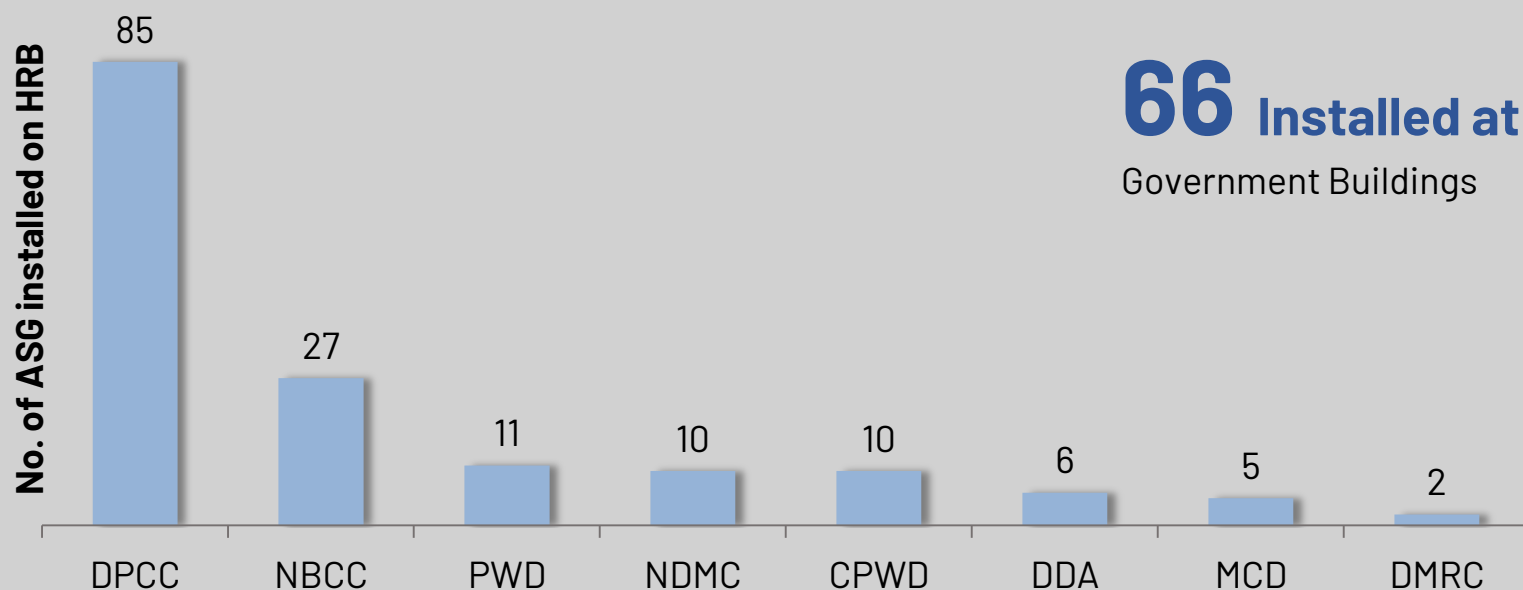


**Environment department has provided 60 nos. of mobile ASGs last
winter to assist MCD to combat dust pollution in hotspot areas.**

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

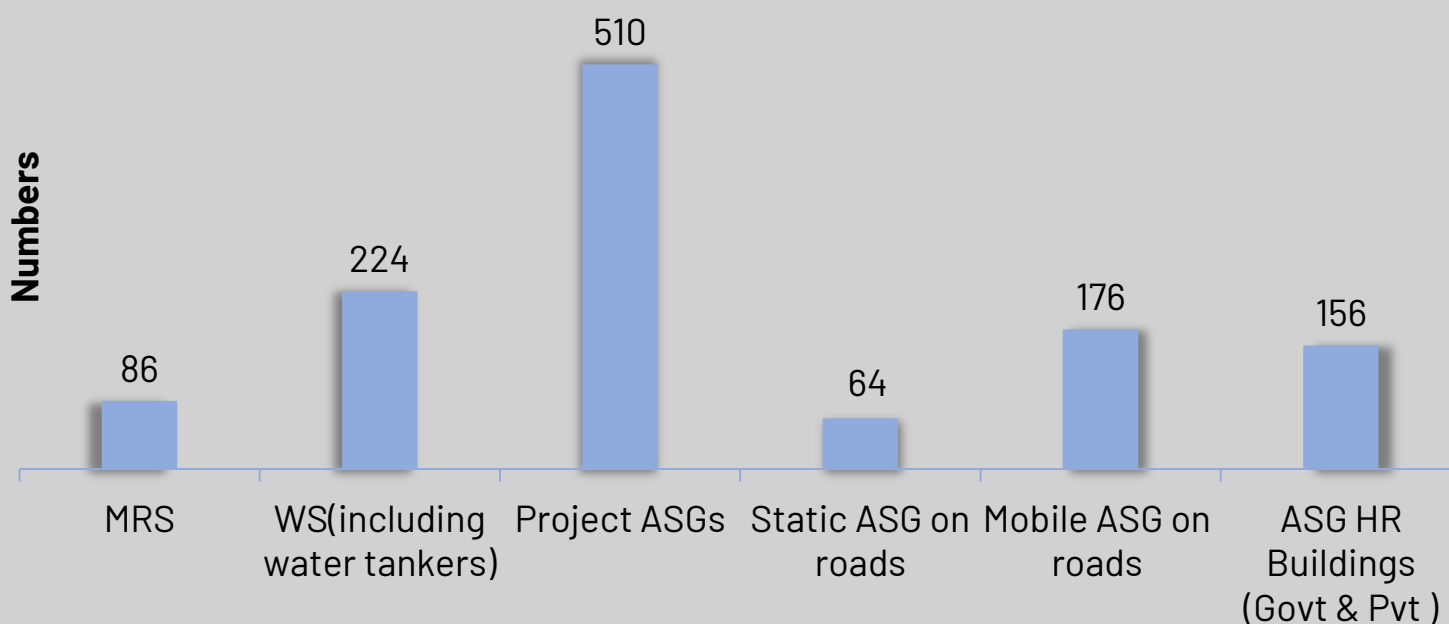
Rs 8.93 crores transferred to NDMC in financial year 2023-24

| 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%) |
| Total | 42.68 Cr. | 13.57 Cr. (31.8%) |



22 Machines in summary

MRS | WS | ASGs

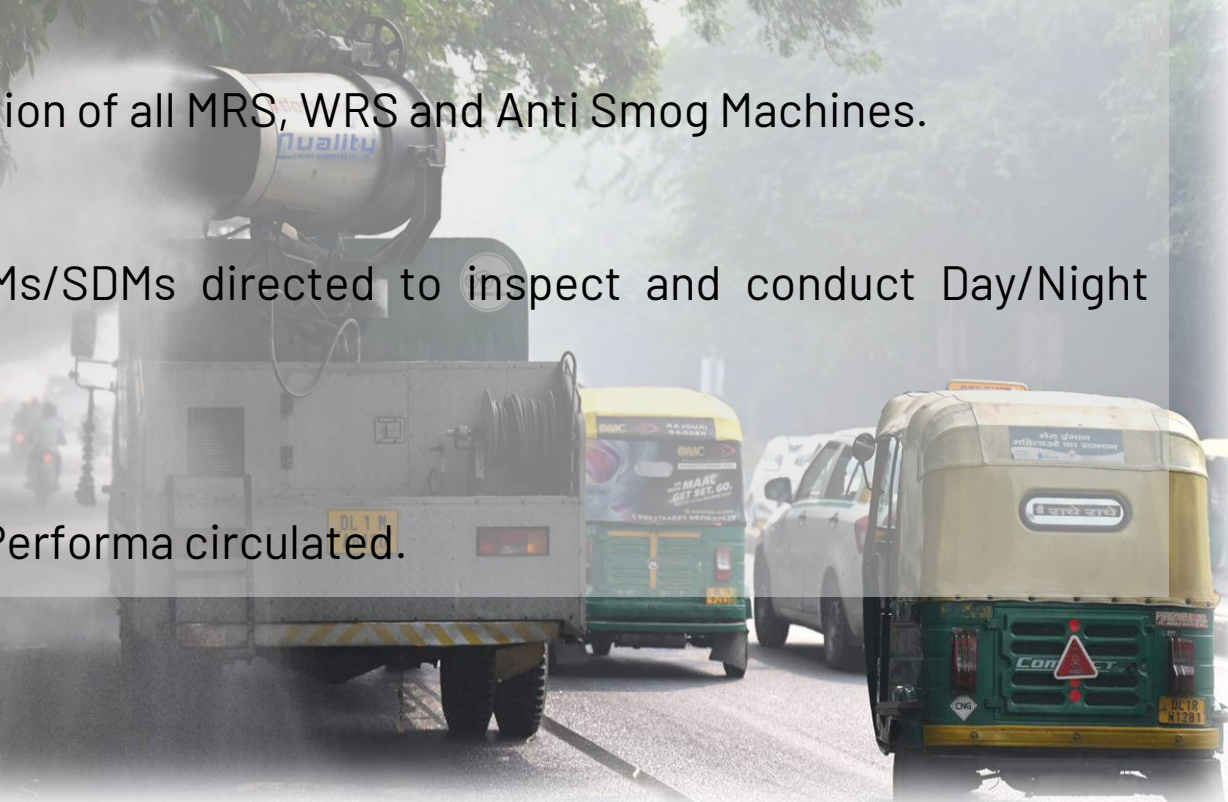


Intensified measures (GRAP) during this winter

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

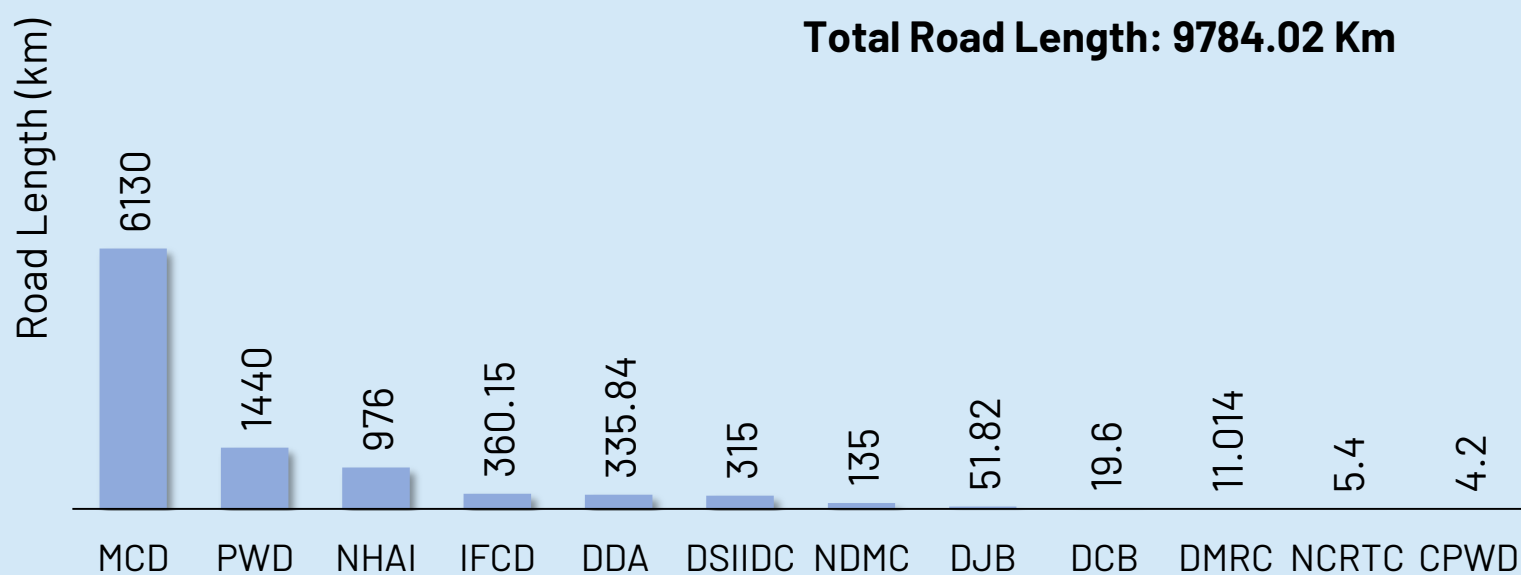
All DMs/ADMs/SDMs directed to inspect and conduct Day/Night monitoring.

Monitoring Performa circulated.

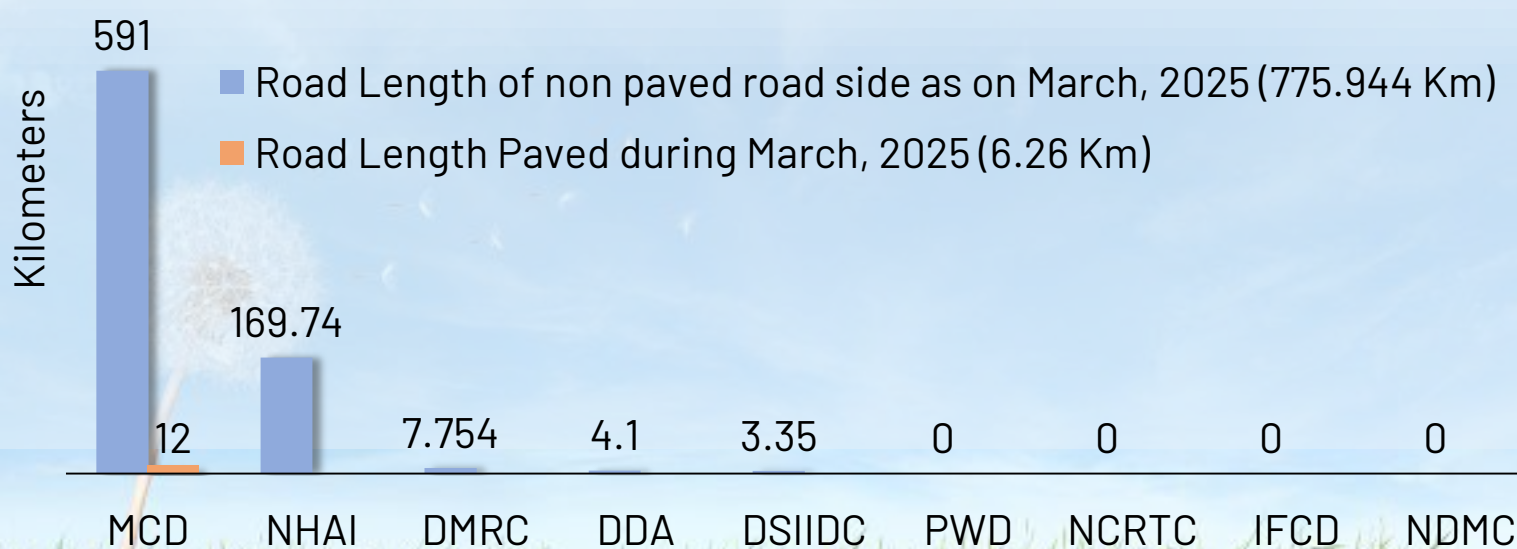


23 Paving / Greening of Roads sides

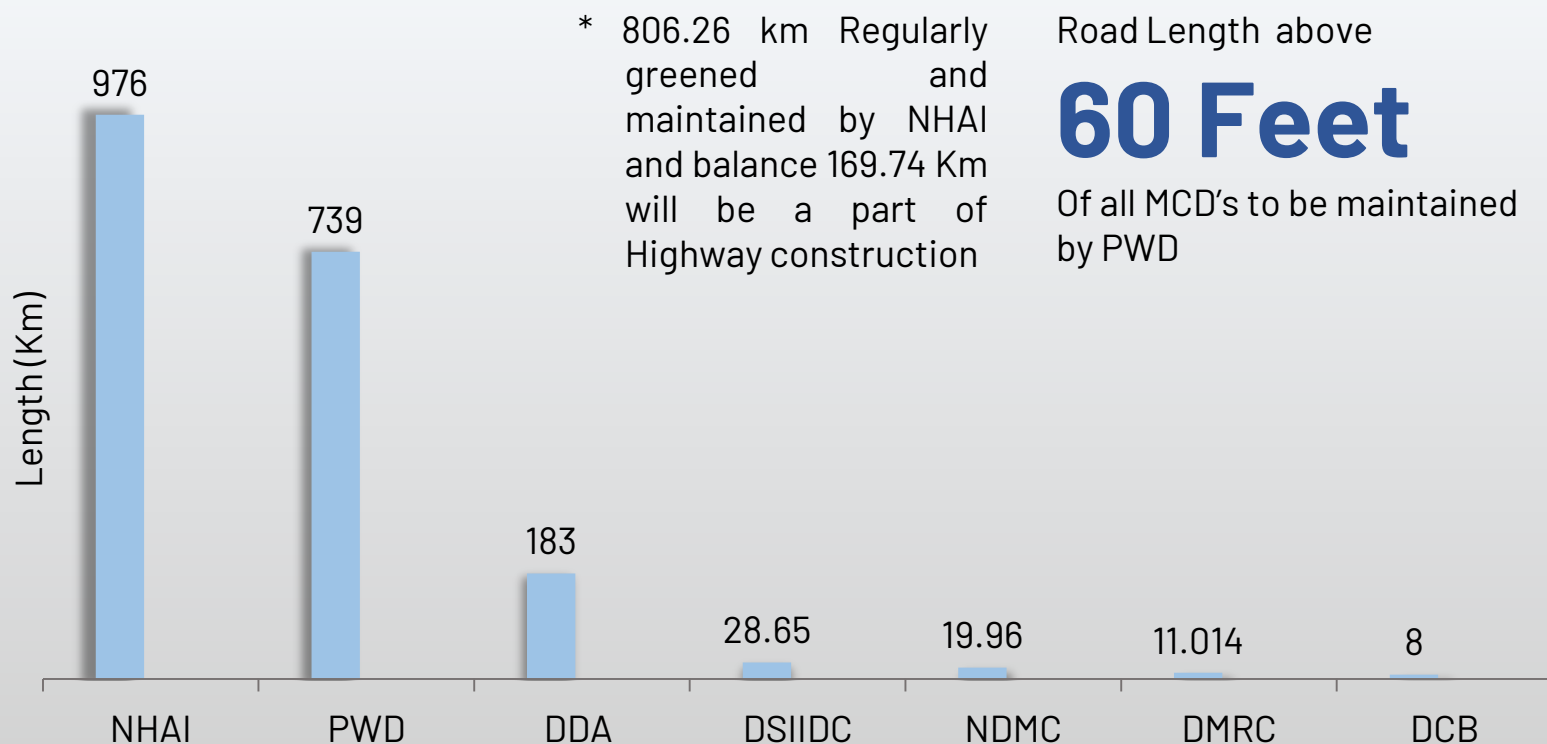
Road length under jurisdiction as on March, 2025



Non-paved/open road sides as on March, 2025



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

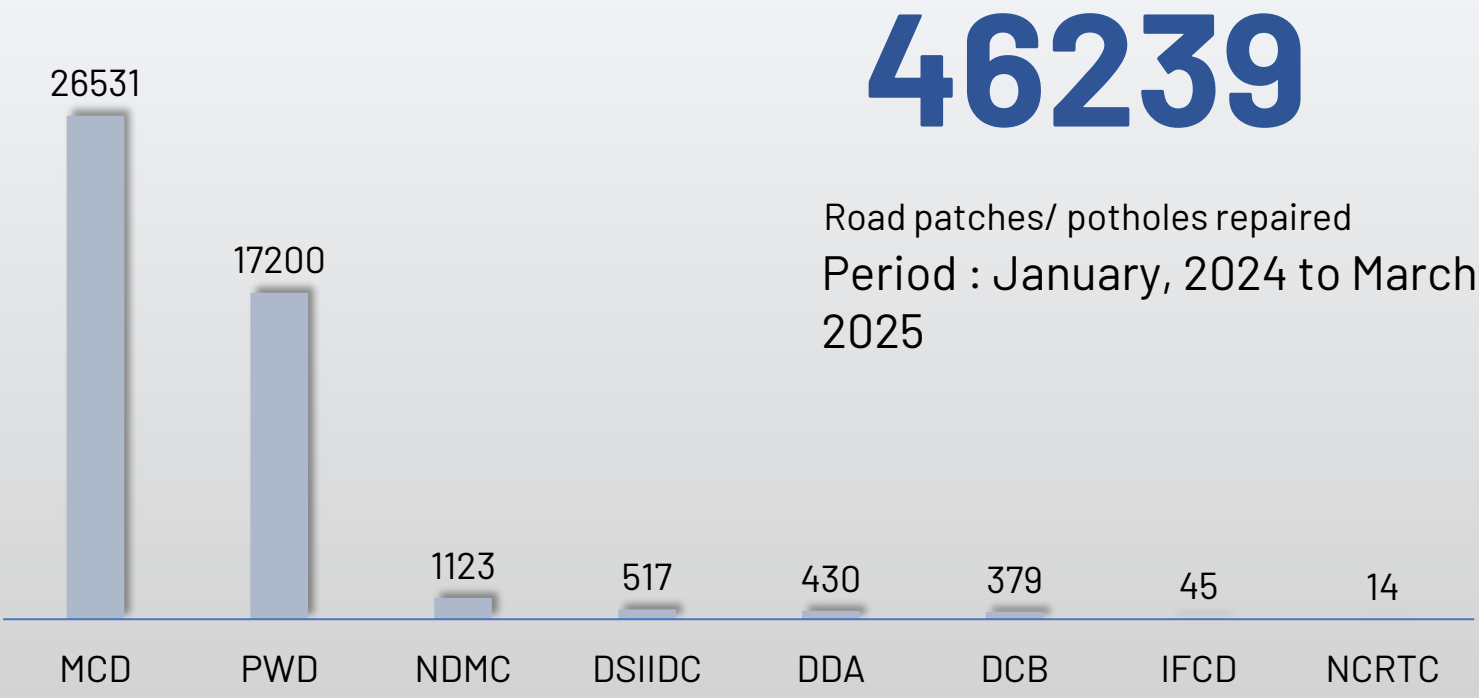
■ Total length of central verges (1965.62 Km)

Balance length of Central Verges for greening : 180.754 Km



25

Repair and maintenance of Road Patches/ Potholes



NHAI: Regularly repair of potholes & patches



03

Control of fires incidences in sanitary landfill sites



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 %

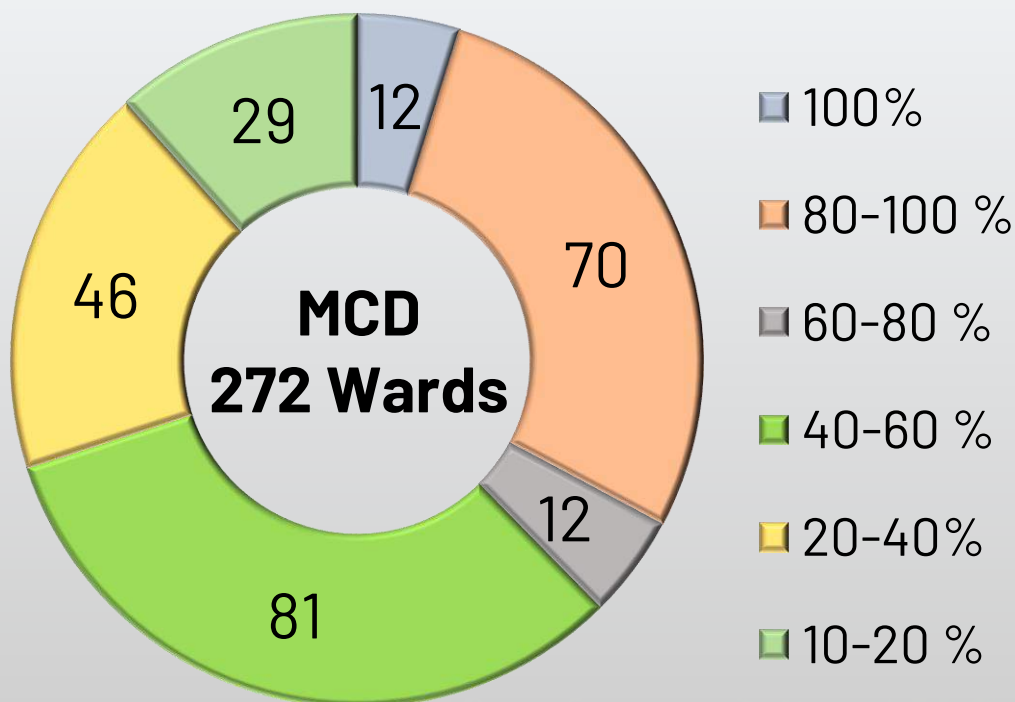
Collection of MSW
by Local bodies

Segregation :

NDMC: >92% in
all 14 Circles

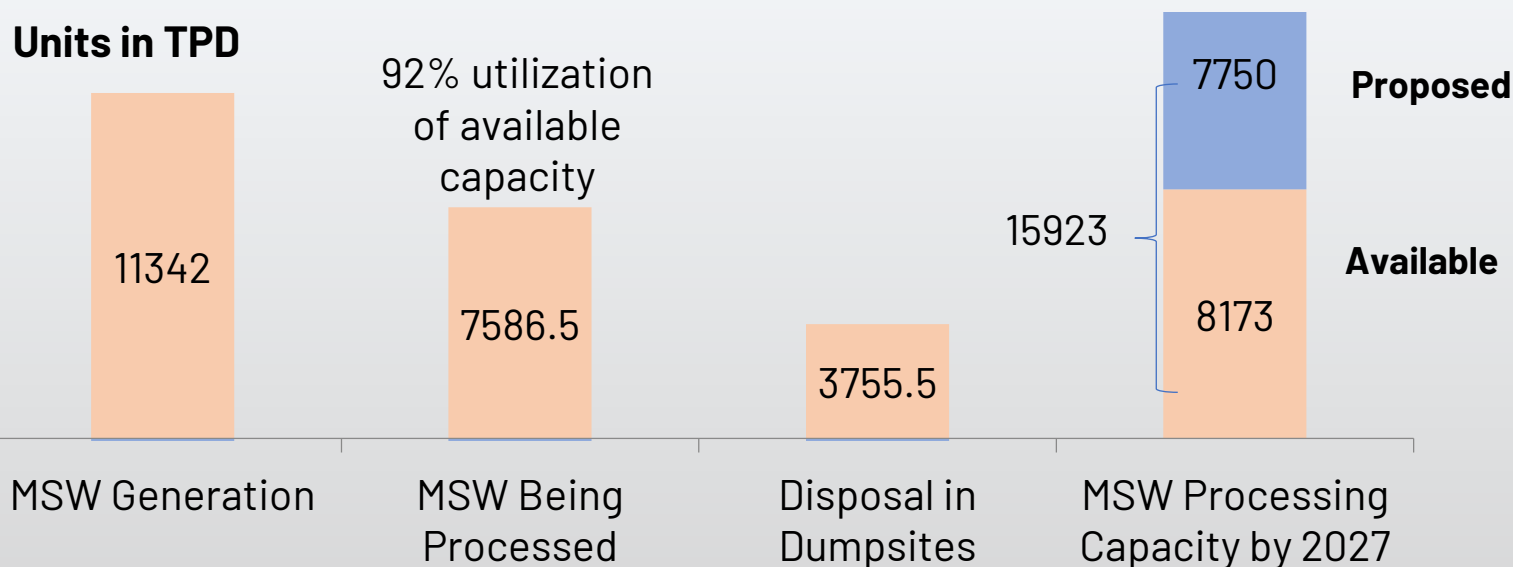
DCB: 90 % in Civil
Pockets and 70 % in
Army Pockets

MCD: 58% segregation
Timeline – 100% by Jan,
2027



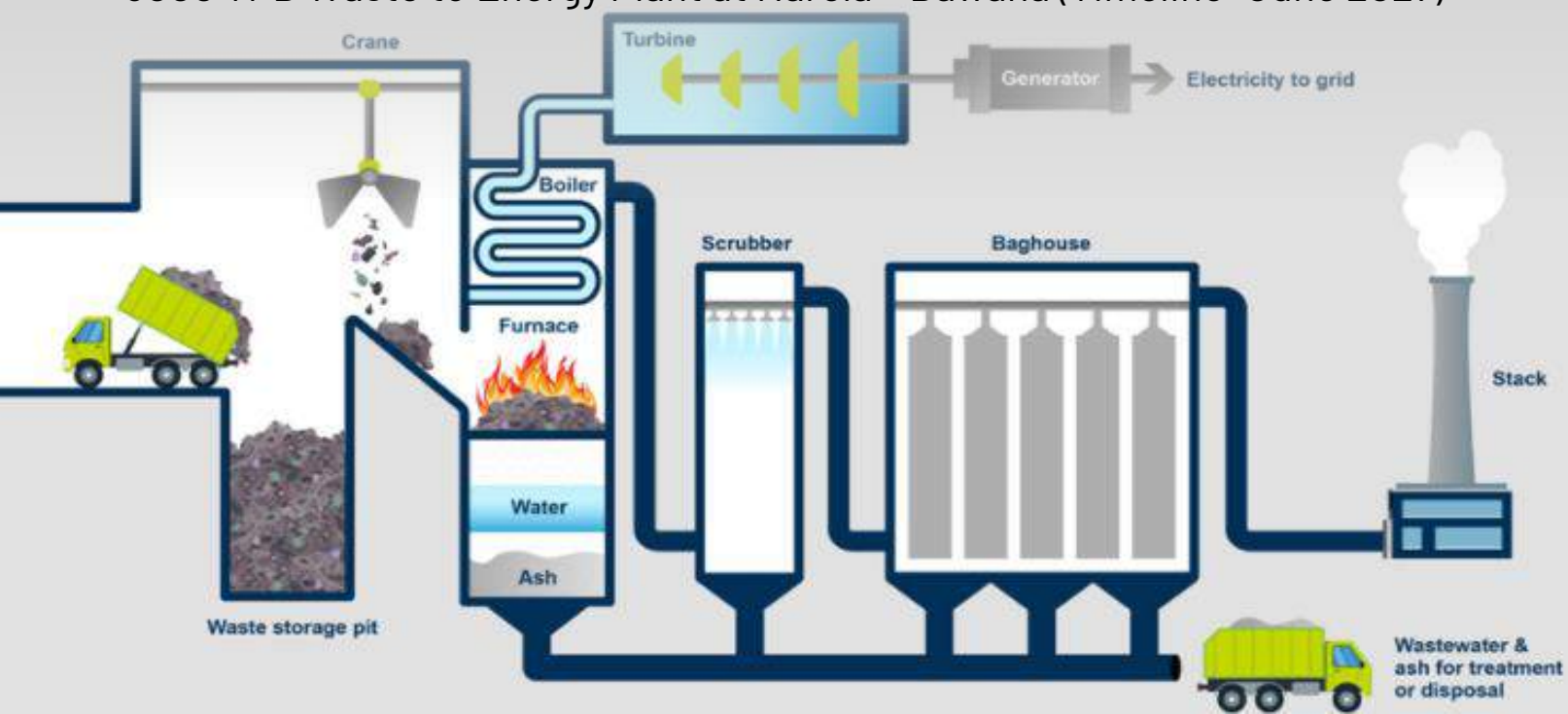
28 Processing of Municipal solid wastes (MSW)

Units in TPD



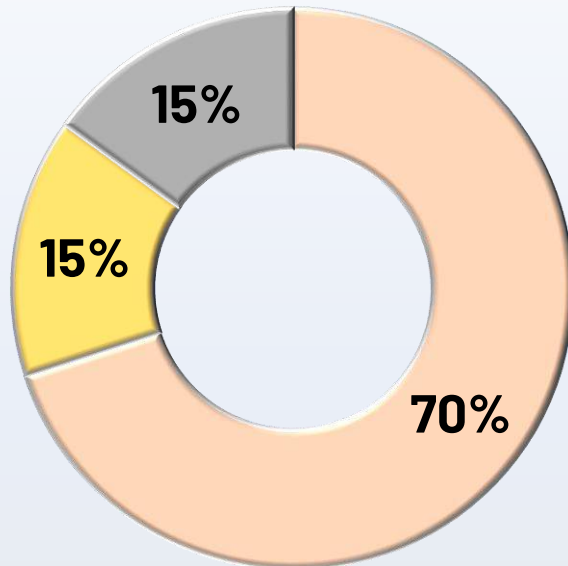
Major Proposed Projects: .




- 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)

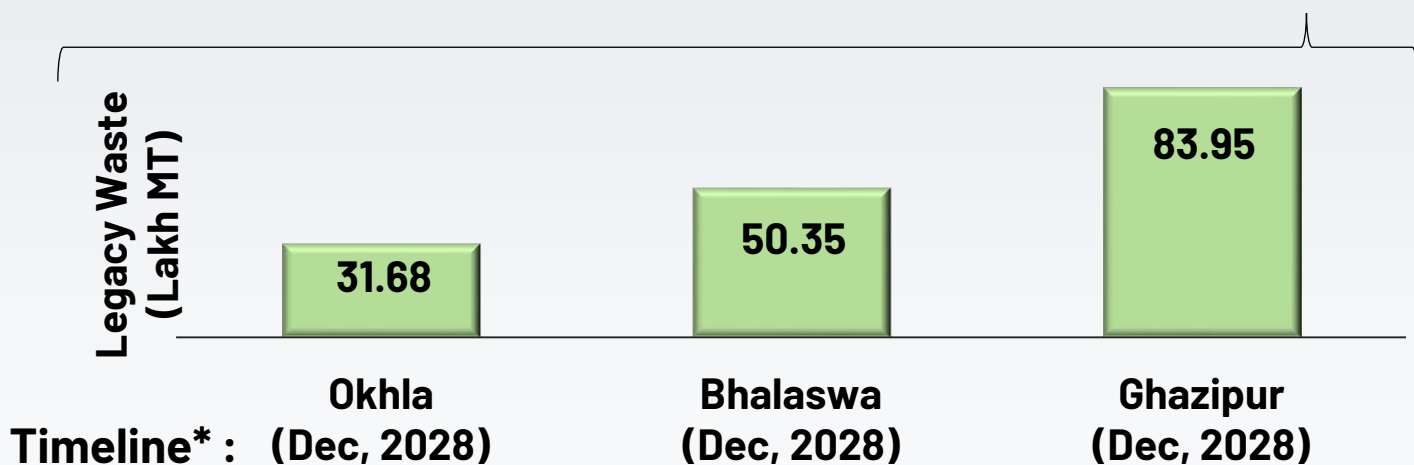
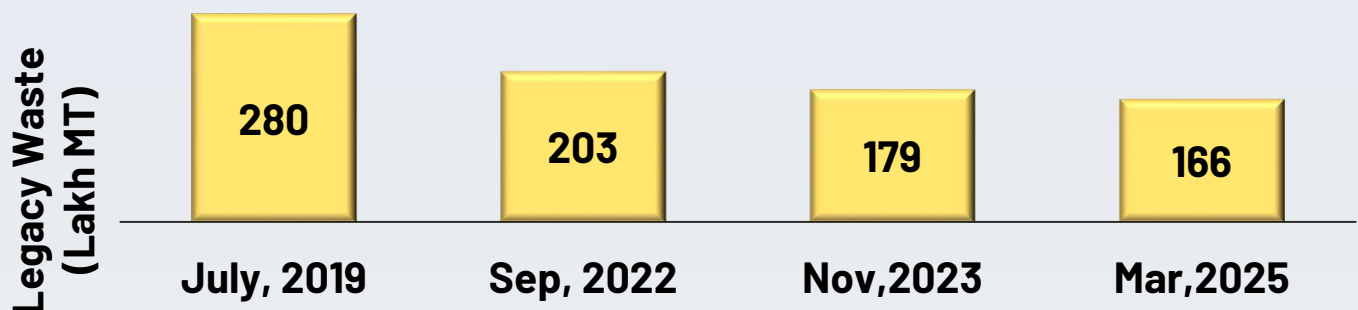


29 Remediation of Legacy Waste

Composition of Biomined legacy waste



-  Inert (less than 30 mm sieve size)
-  Refuse Derived Fuel (RDF)
-  Construction & Demolition Wastes



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 2024-25

1 landfill fire in 2024 in Ghazipur landfill site

04

Prevention of open burning of MSW and biomass



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: Oct, 2024 to Mar, 2025

36521

No. of inspections of garbage burning sites conducted

**Rs. 5.224
Lakhs**

Amount of fine imposed

861

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.



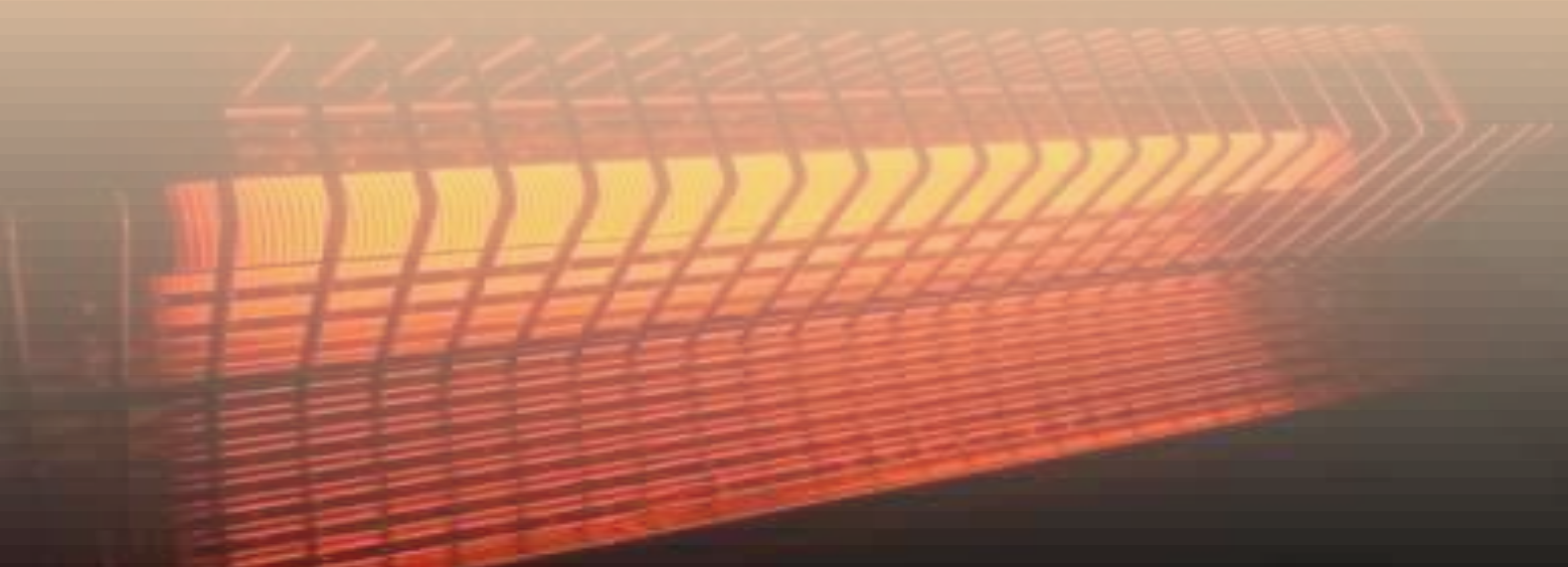
33**Enforcement****Electric heaters provided by RWA's**

From October, 2024 to March, 2025

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.

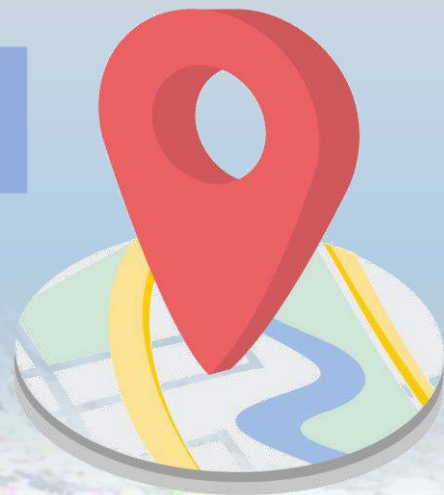
118 machines were distributed to farmers on 50% subsidy in FY 2023-24.

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.

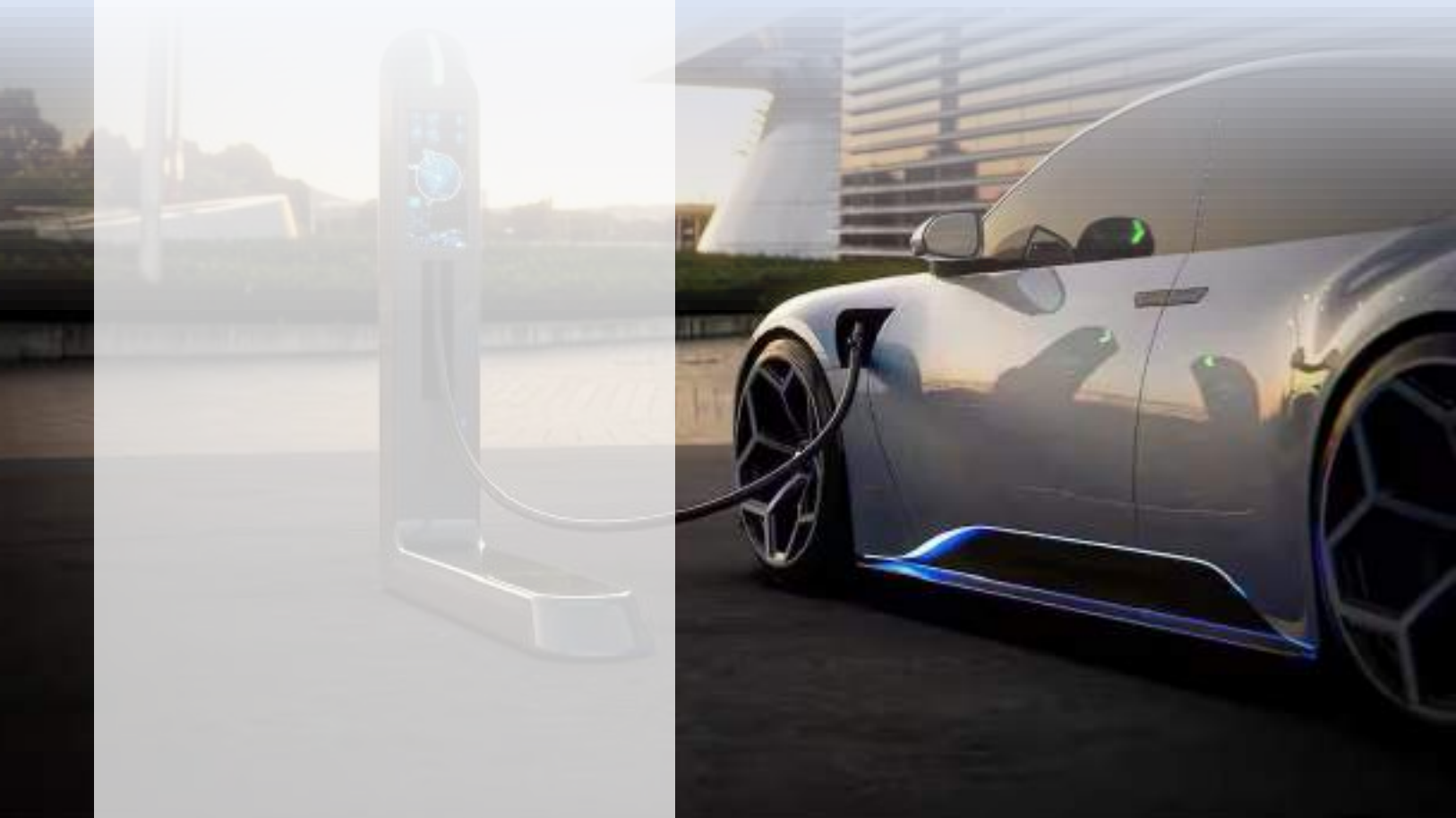
Identification of Vulnerable Industrial plots for Burning

164 Vulnerable plots identified
Regular action by DSIIDC, MCD and DPCC



05

Electric/ EV mobility



36

Electric/ EV mobility

Strategies

01

Increasing adoption

03

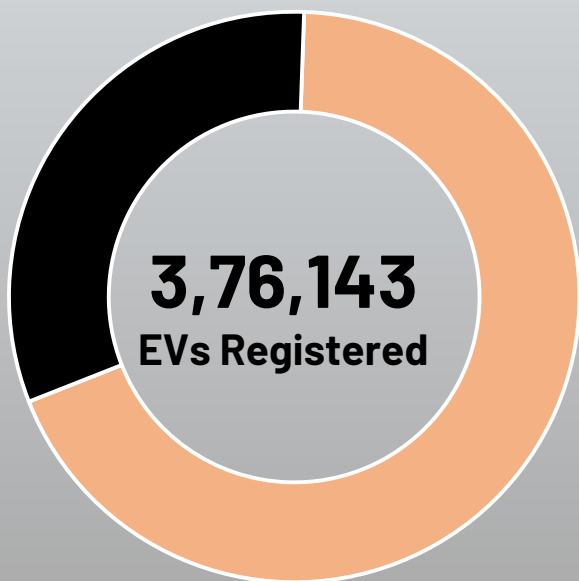
Electrification of Depots

02

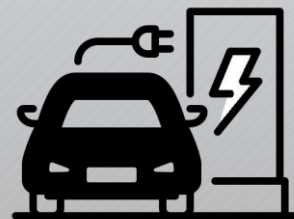
Augmentation of
infrastructure [EV Charging
Stations/ battery swapping]



37 Electric/ EV mobility Increasing Adoption



Till 31st March, 2025



12%

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

Augmentation of infrastructure [EV Charging Stations/ battery swapping]



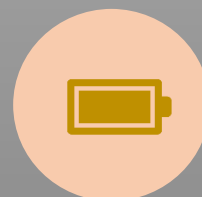
3100

**Charging
Stations
In place**



4793

**Charging Points
In place**



893

**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

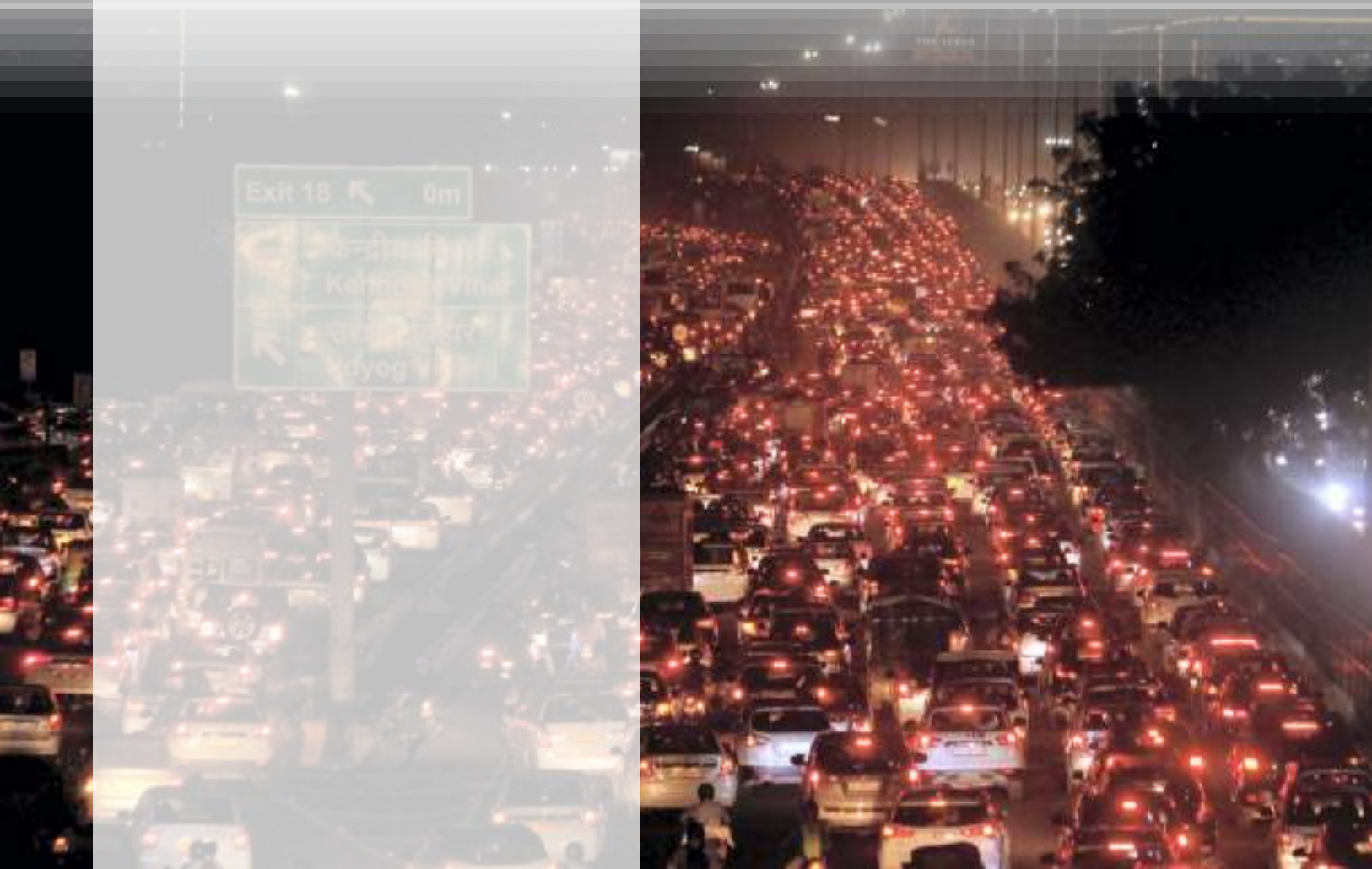
Electric/ EV mobility Electrification of Depots

- **Out of 71 bus depots (44 depots of DTC, 08 depots of DMRC and 19 depots of DIMTS), 37 are electrified (31 of DTC and 6 of DIMTS). Remaining depots shall be electrified by 2024-25**
- Electrification of 4 DTC depots are under process. Electrification work yet to be started in 2 DTC depots. Funds from transport department are pending for 5 depots. Demand note is pending from DISCOM for 2 DTC Depots.



06

Vehicular Pollution Control



40 Vehicular Pollution Control

Strategies

01

Phasing out old vehicles

03

Smooth road traffic management

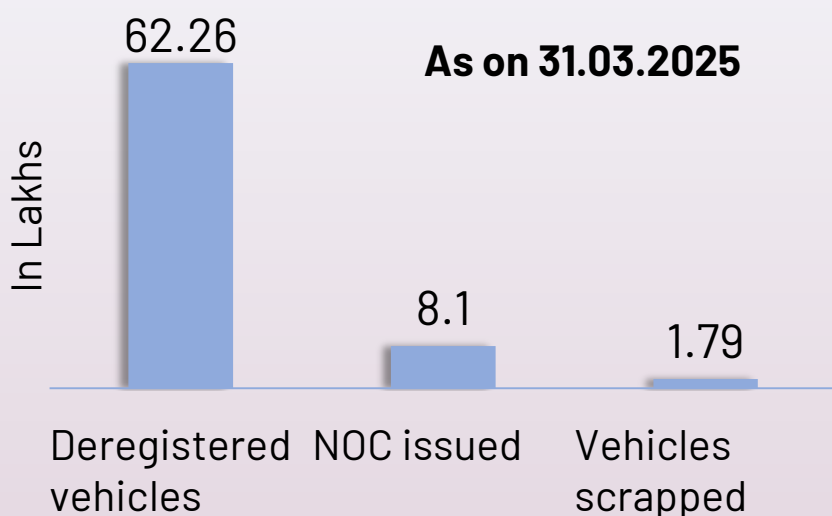
02

Enforcement of PUC norms



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

Phasing out old vehicles [Total live vehicles = 84.45 Lakhs]



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.

62.26 lakh vehicles (10-15yr old) have been de-registered (till 31.03.2025)

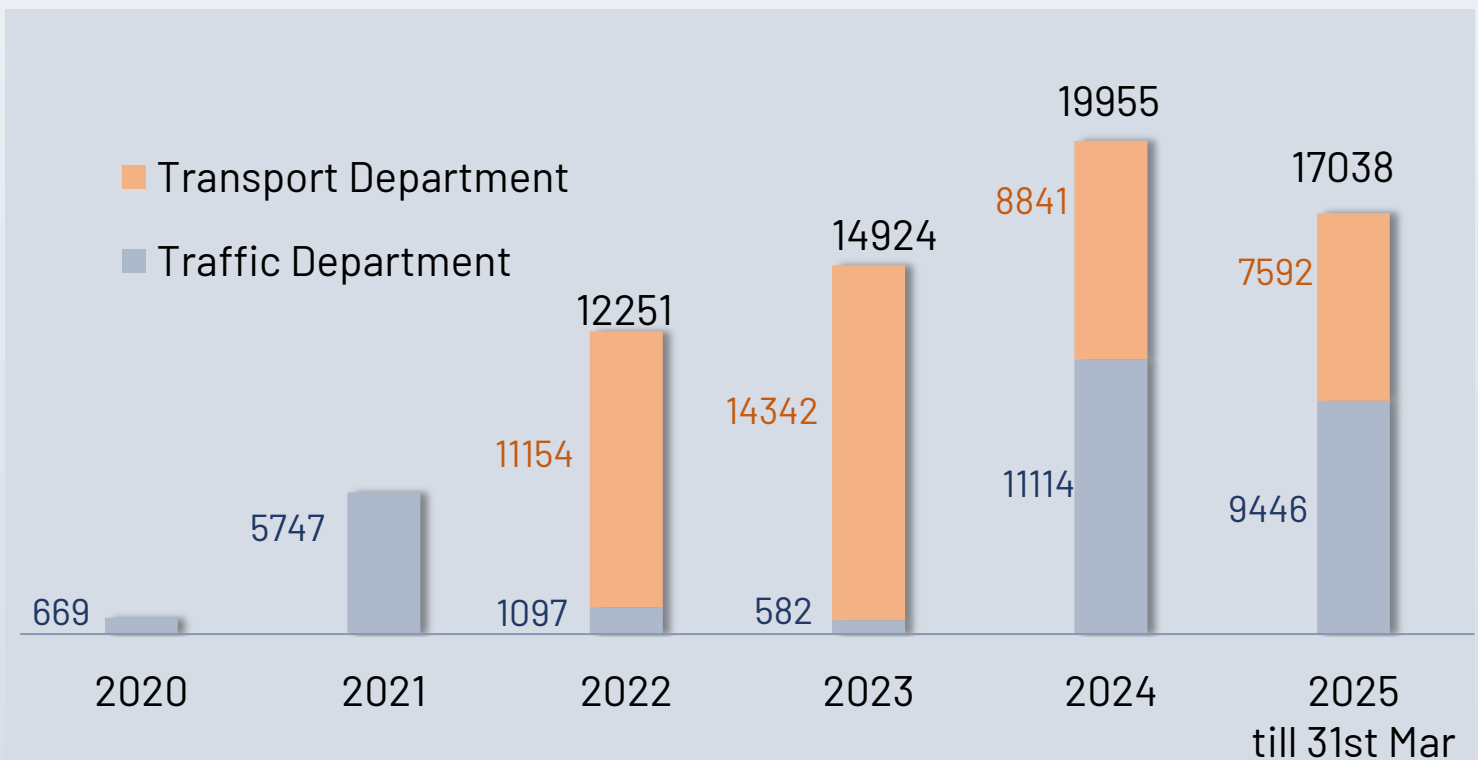
7686

Vehicles impounded and sent for scrapping (during 2025 till 31st Mar)



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

Vehicles Impounded

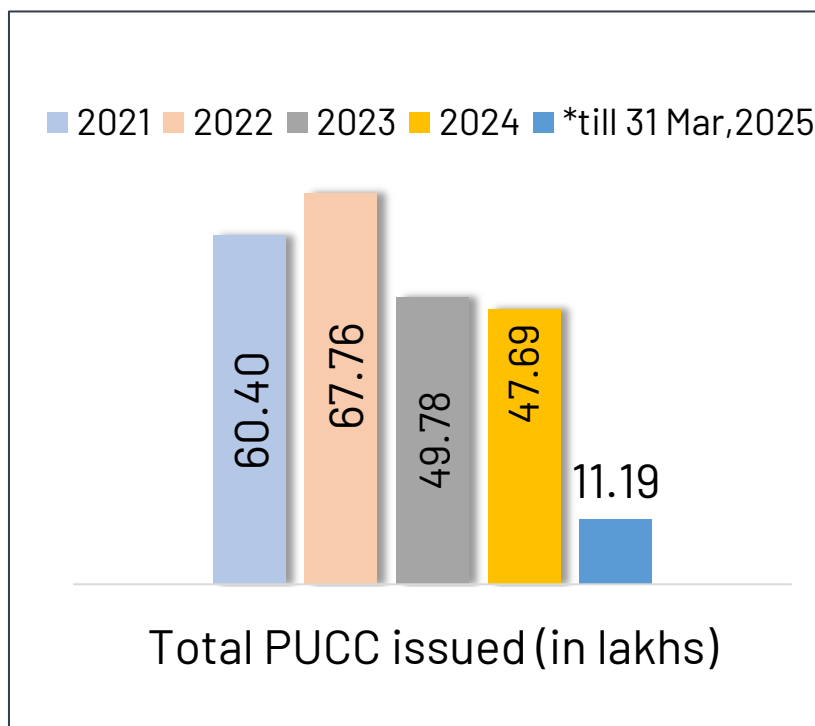


43 Enforcement of PUC regime

951 PUC Centers operational in Delhi. Target 1000 centers.

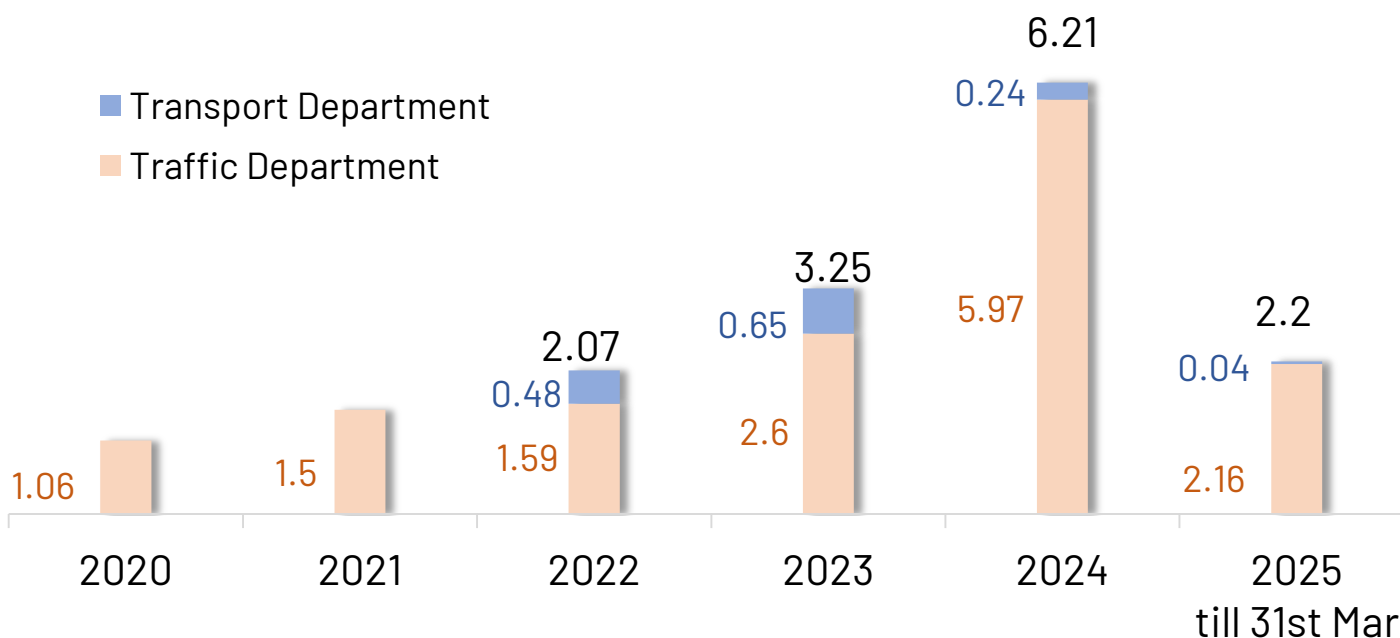
Regular SMS sent to vehicle owners whose PUC has expired or going to be expired within one week.

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



Challans issued

■ Transport Department
■ Traffic Department



385 Teams constituted for checking PUC compliance.

44 Smooth Road Traffic Management

Inter-departmental Task Force : headed by Transport Commissioner.



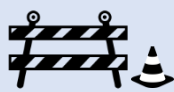
Lane Driving

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

134

Road Stretches
Identified road stretches with maximum congestion (Transport)

Action against unauthorized parking
(Jan, 2025 to Mar, 2025)

1,99,579

Challans issued

1.18 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

Ensuring 100 % utilization is crucial



07

Augmentation of public transport



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 2026



- 6966 buses (Cluster Buses:- 3147 (CNG-2747, Electric-400), DTC Buses:- 3819 (CNG-2094 + 1725 Electric)in place including 2127 E-buses.
- Target to augment total fleet of 10,925 buses including approximately 8000 E buses.
- 75 (12 mtr) buses of DTC) to be inducted by FY 2025-26. 1040 of DTC AC low floor e buses (9 mtr) to be expected by December 2025.
- 1600 AC LF 12 metre cluster e buses and 712 AC LF 9 metre cluster e buses to be inducted by FY 2025-26.
- 1500 buses timeline: 1425 buses are in operation / 75 buses are expected to be delivered shortly.

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

WALK CYCLE IPT

BUS



HOME



METRO

BUS

IPT

CYCLE WALK



OFFICE

49 One Delhi App Common Mobility App



**Live Tracking
of Buses**



**Buy Online
Bus Ticket/ Pass**



**Find Electric vehicle
charging stations**



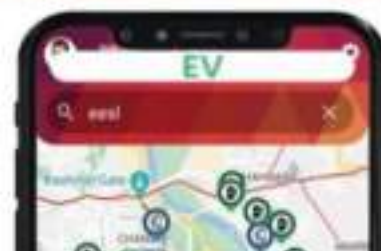
बसों की लाइव ट्रैक करें



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

311 App-MCD

Green Delhi App- Env.



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 02nd April, 2025

| Agency | Total Issues | Total Pending | Short Term | Long Term | Pending % |
|--------------|---------------|---------------|--------------|--------------|------------|
| MCD | 155818 | 13689 | 10149 | 3540 | 9% |
| PWD | 78573 | 12184 | 7158 | 5026 | 16% |
| I&FC | 19391 | 10015 | 4642 | 5373 | 52% |
| DDA | 15985 | 7130 | 6698 | 432 | 45% |
| DJB | 15516 | 4174 | 3716 | 458 | 27% |
| DSIIDC | 7050 | 2774 | 1650 | 1124 | 40% |
| Others | 21234 | 4790 | 4628 | 162 | 23% |
| TOTAL | 313567 | 54756 | 38641 | 16115 | 18% |

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.

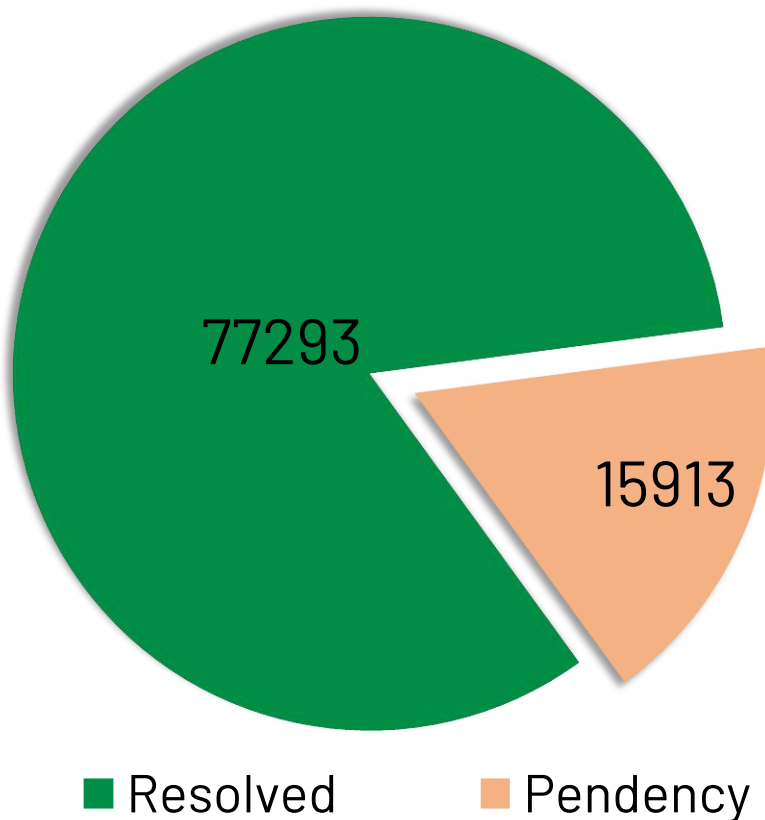
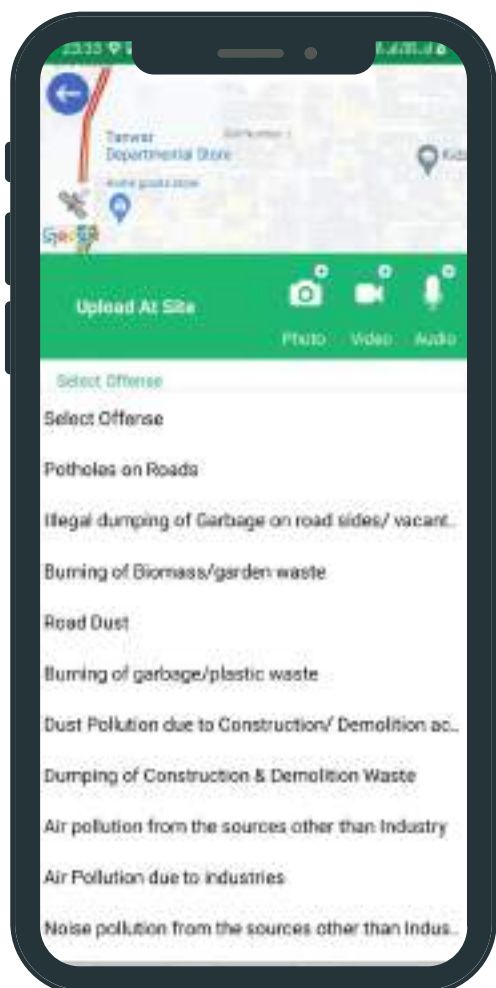
24 x 7 Green War Room established for inter departmental coordination.

93206

**Total grievances received since Oct, 2020
As on 02.04.2025**

82.93 %

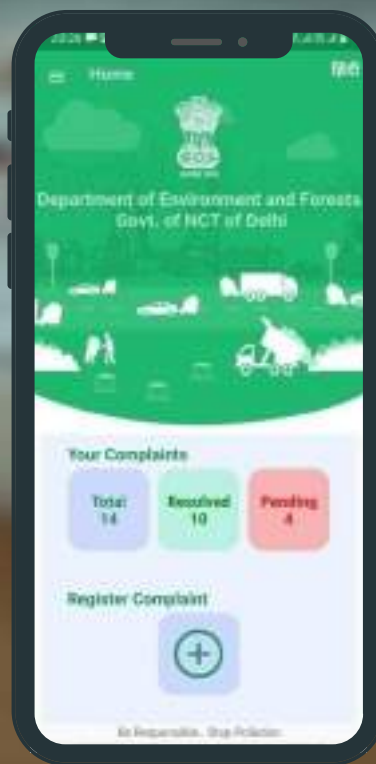
Resolution Percentage



52 DPCC/Environment Department Green Delhi App

Green Delhi App - Department Wise Complaints Report As on 02.04.2025 11 AM of Major Departments

| S No | Department | Total | Pending | Pending % | Overdue |
|------|--------------------------------------|-------|---------|-----------|---------|
| 1 | Municipal Corporation of Delhi (MCD) | 59519 | 10967 | 18.43 | 10925 |
| 2 | Public Works Department (PWD) | 15052 | 3820 | 25.38 | 3807 |
| 3 | Delhi Development Authority (DDA) | 4864 | 331 | 6.81 | 330 |
| 4 | Irrigation & Flood Control (IFC) | 2136 | 163 | 7.63 | 162 |
| 5 | Delhi Jal Board (DJB) | 3176 | 46 | 1.45 | 45 |



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: 56.40 Lakhs

Free distribution done: 6.28 Lakhs

62.68 Lakhs

97 % Achieved till Mar 2025



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 01.10.2024 till 31.03.2025)

- No. of inspections conducted regarding unauthorized DG sets at construction sites: 3695
- 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 Periphery : 129280
during stage I , stage II ,stage III and Stage IV of
GRAP

No of Days under GRAP:

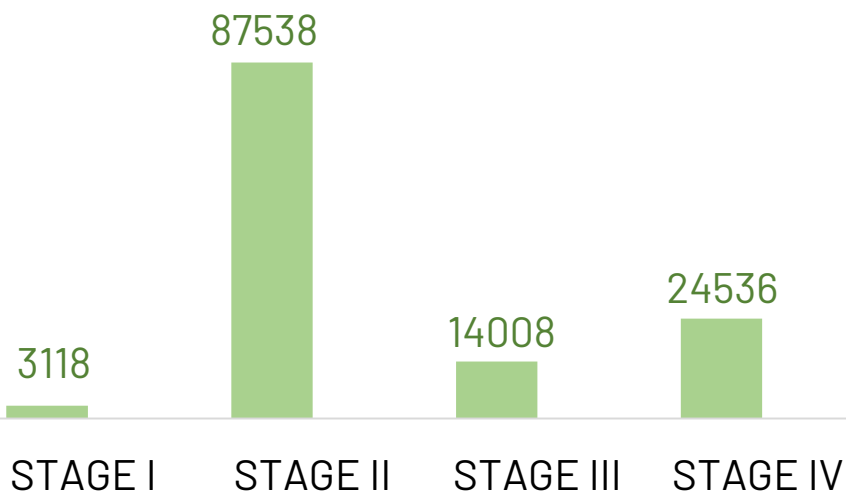
Stage I : 29 days

Stage II : 82 days

Stage III : 17 days

Stage IV : 27 days

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



**Period : Jan, 2025
to Mar, 2025**

335428

9.84%
Returned

33022

No. of goods
vehicles
checked for
non-destined

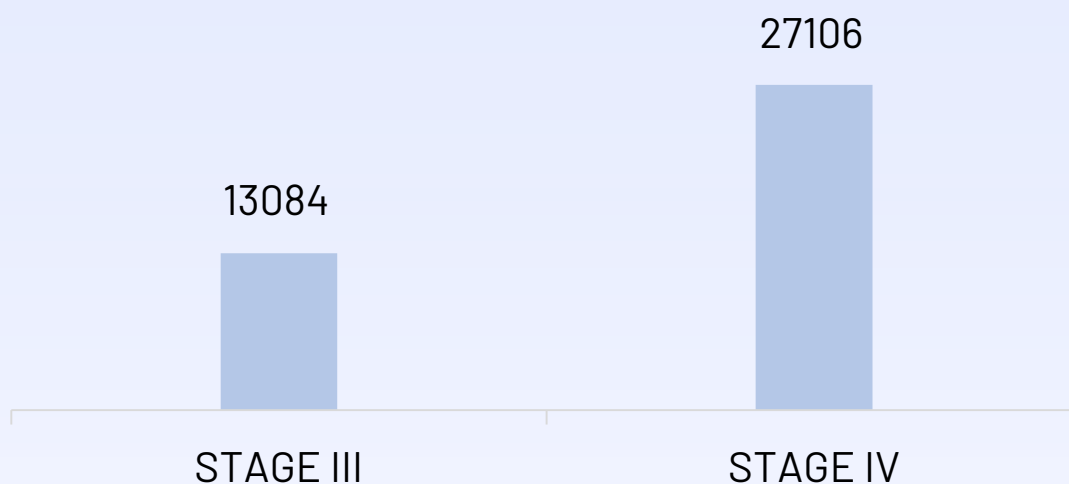
No. of non
destined
goods
vehicles
returned

58

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

Stage III : 17 days
Stage IV : 27 days
As on: 02.04.2025

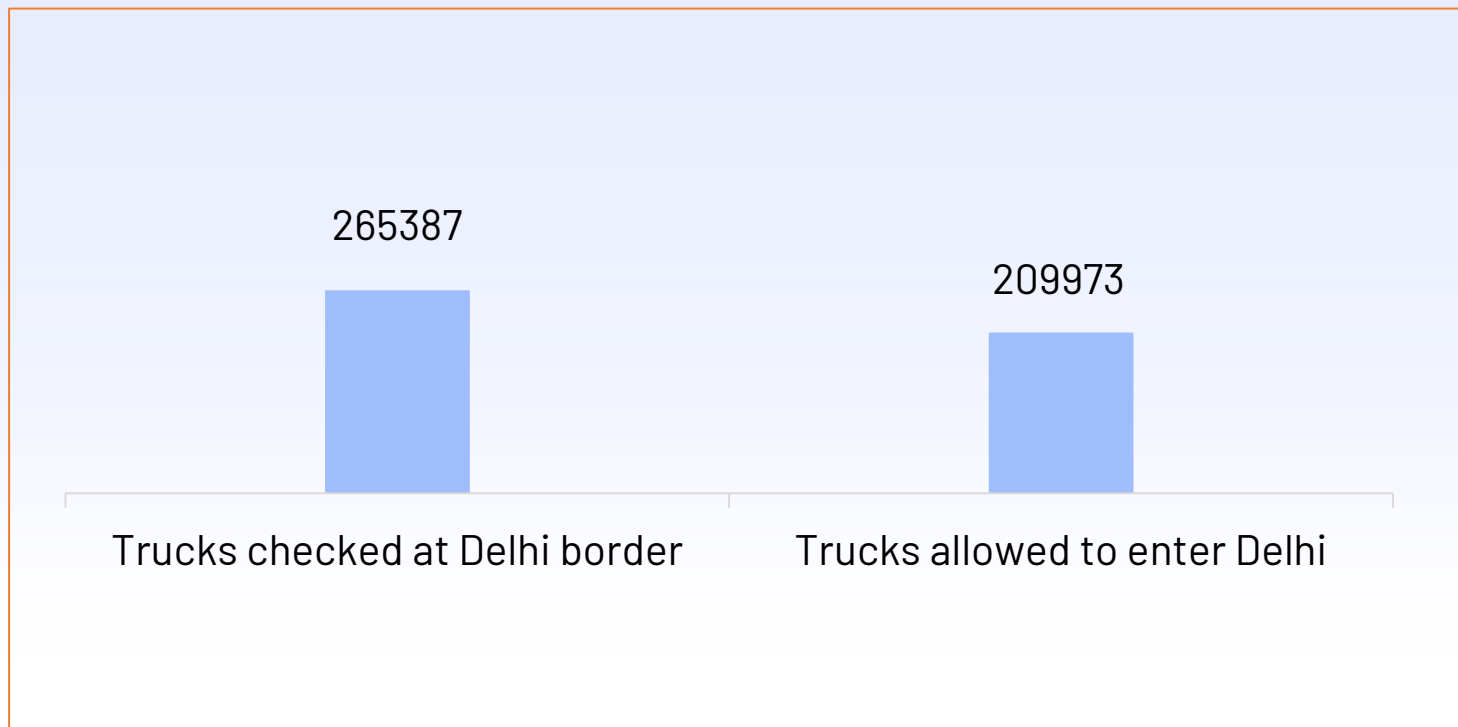
Challans issued for Ban on plying of BS III Petrol/ BS IV Diesel LMVs: 40190



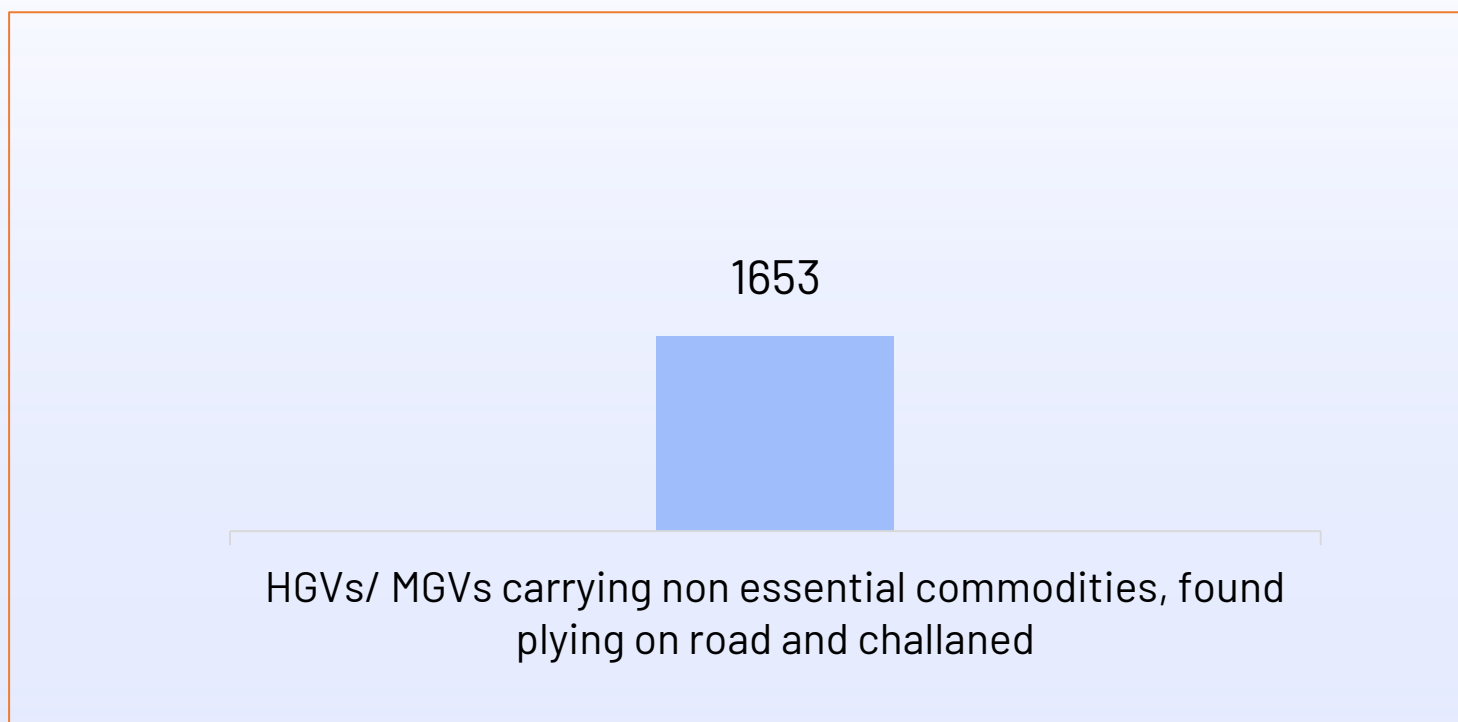
59

Ban on plying of Trucks and LCVs (Stage IV)

**Stage IV: 27 days
As on 02.04.2025**



Ban on plying of HGVs /MGVs (Stage IV)



60 Additional fleet and increasing frequency of service

During winter 2024-25

▪ 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

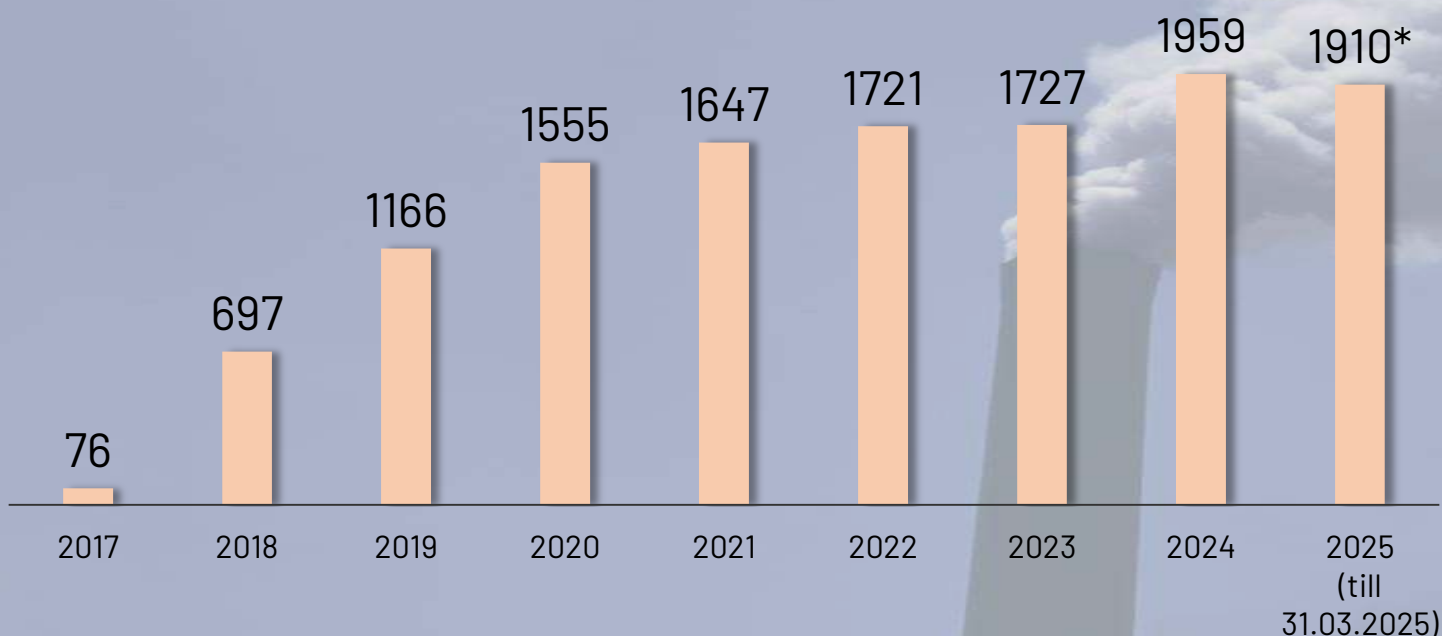


61

Industrial Pollution Control

Shift to cleaner fuel

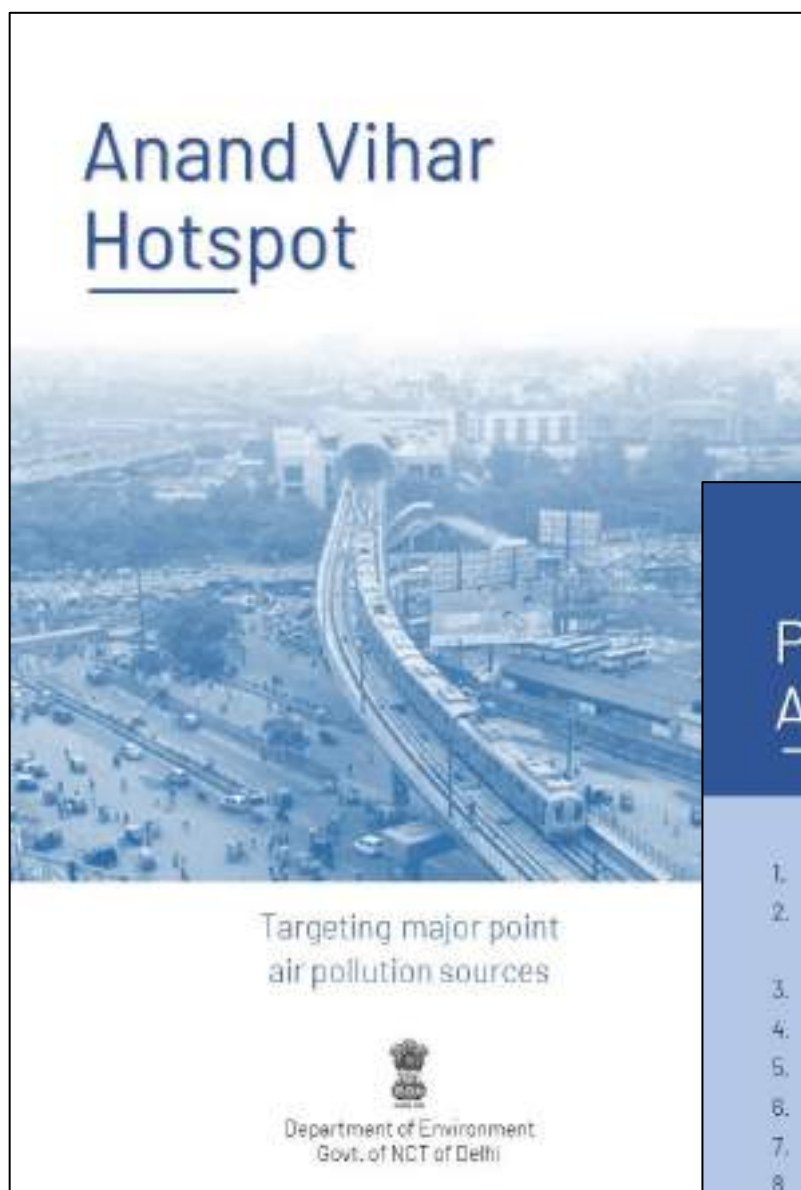
Progress in conversion of industrial unit to PNG till 31st Mar, 2025



* 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](#).
- 2083 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}



Department of Environment
Govt. of NCT of Delhi

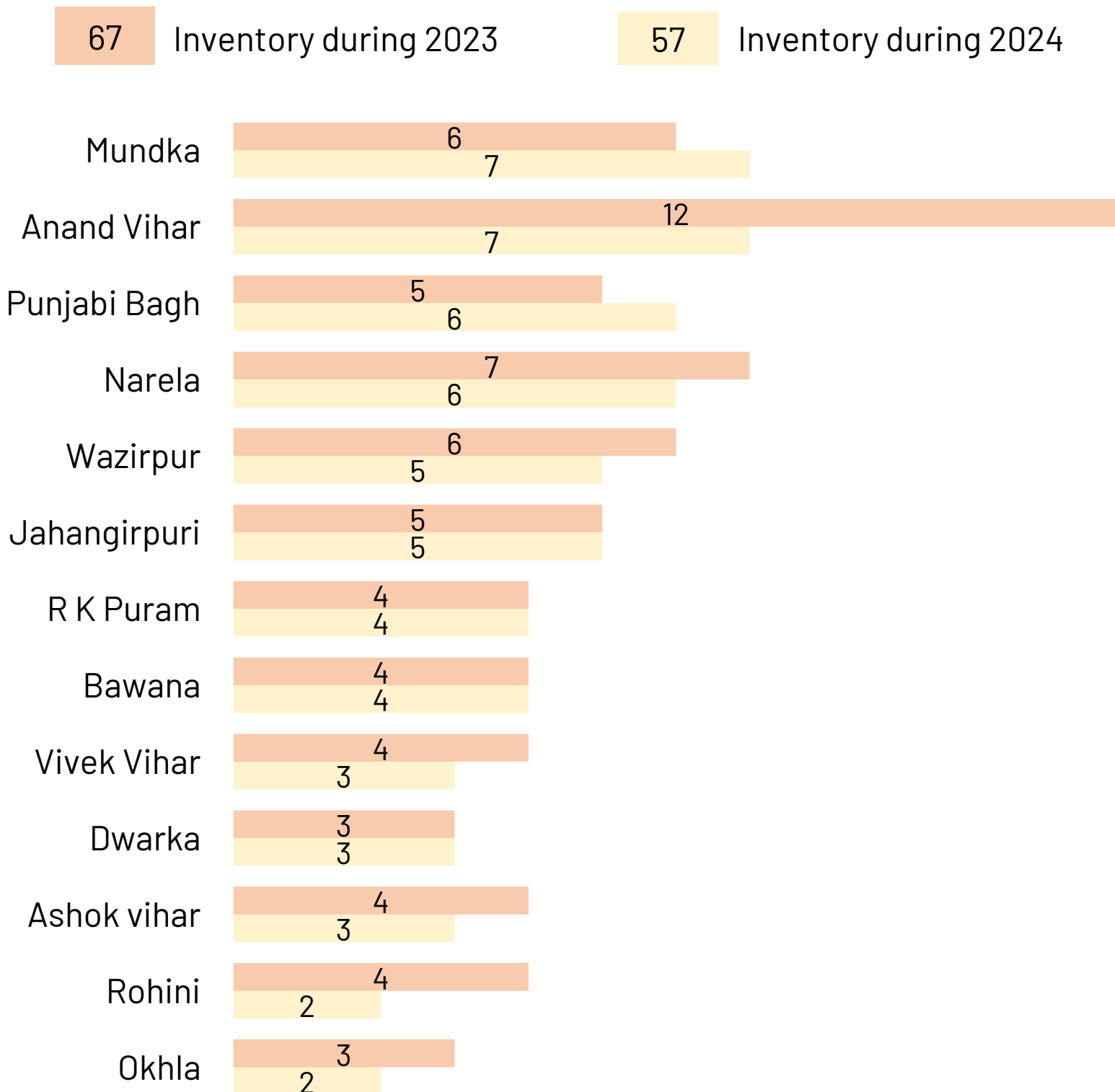
Pollution Sources at Anand Vihar

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 Sh. Rajesh K. Sharma (DTIDC) - 9717788086 Sh. Dimple Saini (DTIDC) - 9717694984 Sh. Rakesh Vaid (Transport) - 9999603111 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 |

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 2nd Half of 2023

2920+ resolved during 12th May 2023– 02nd Mar 2025

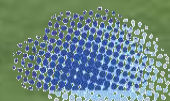
Includes dumping of plastic waste/ garbage/ malba/ construction and demolition waste, unpaved roads/ roadsides, patches and pot holes, congested traffic points, road dust, construction & demolition sites, vulnerable municipal solid waste burning, non-paved parking sites, air polluting industrial units,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







Department of
Environment, Govt. of NCT of Delhi



International Day⁸⁴
of Clean Air for blue skies