



Department of
Environment, Govt. of NCT
of Delhi

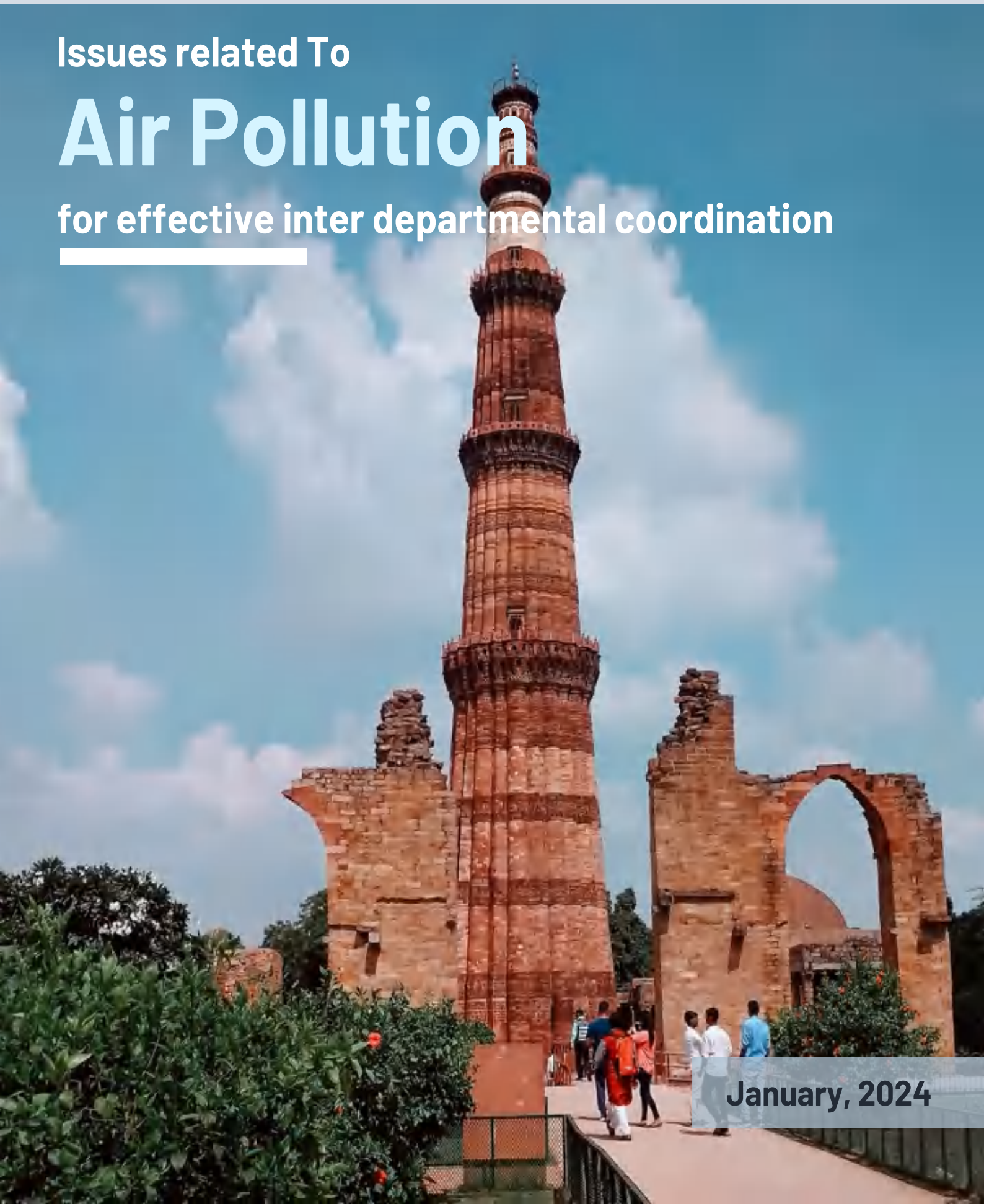


International Day
of Clean Air
for blue skies

Issues related To

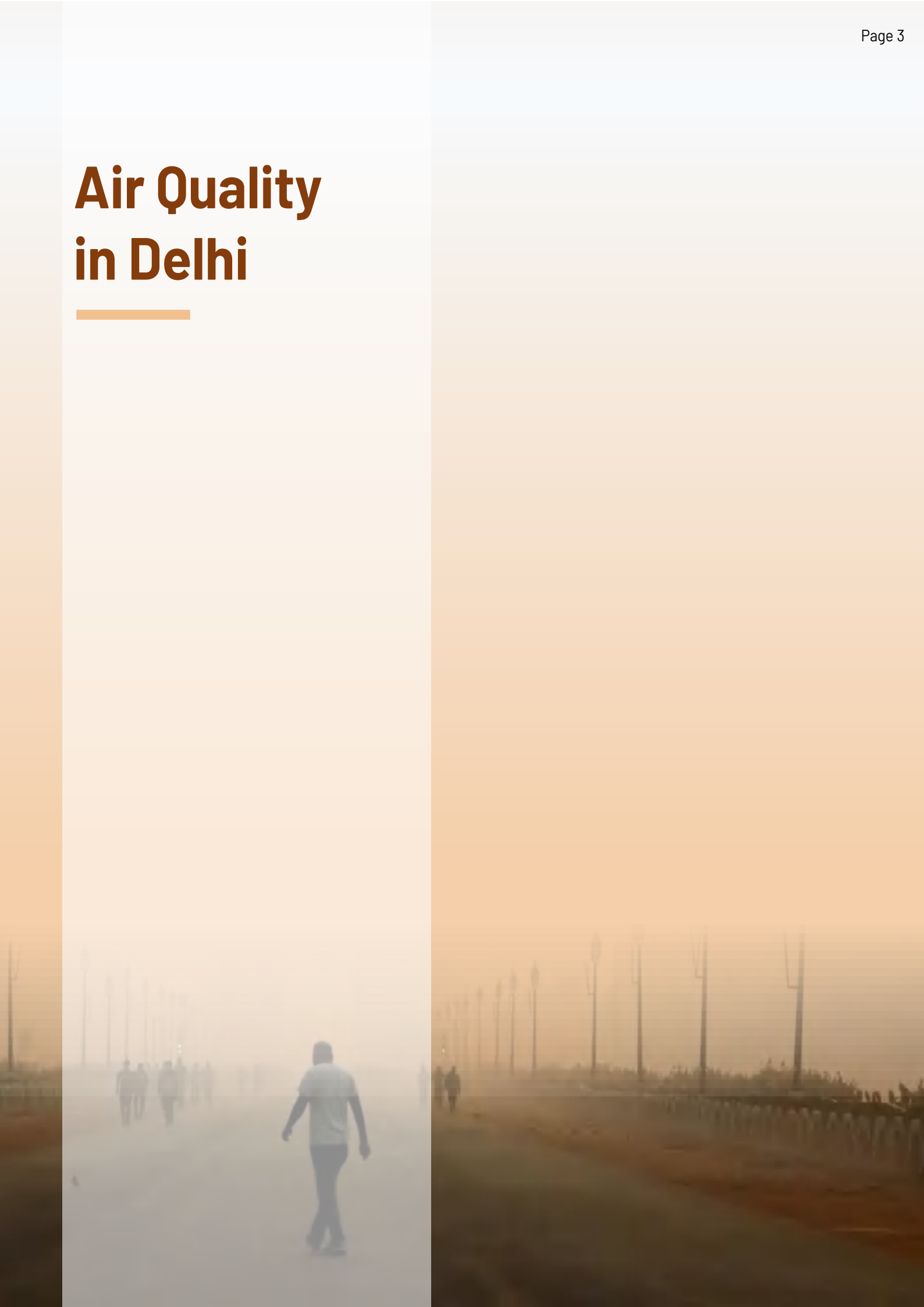
Air Pollution

for effective inter departmental coordination



January, 2024

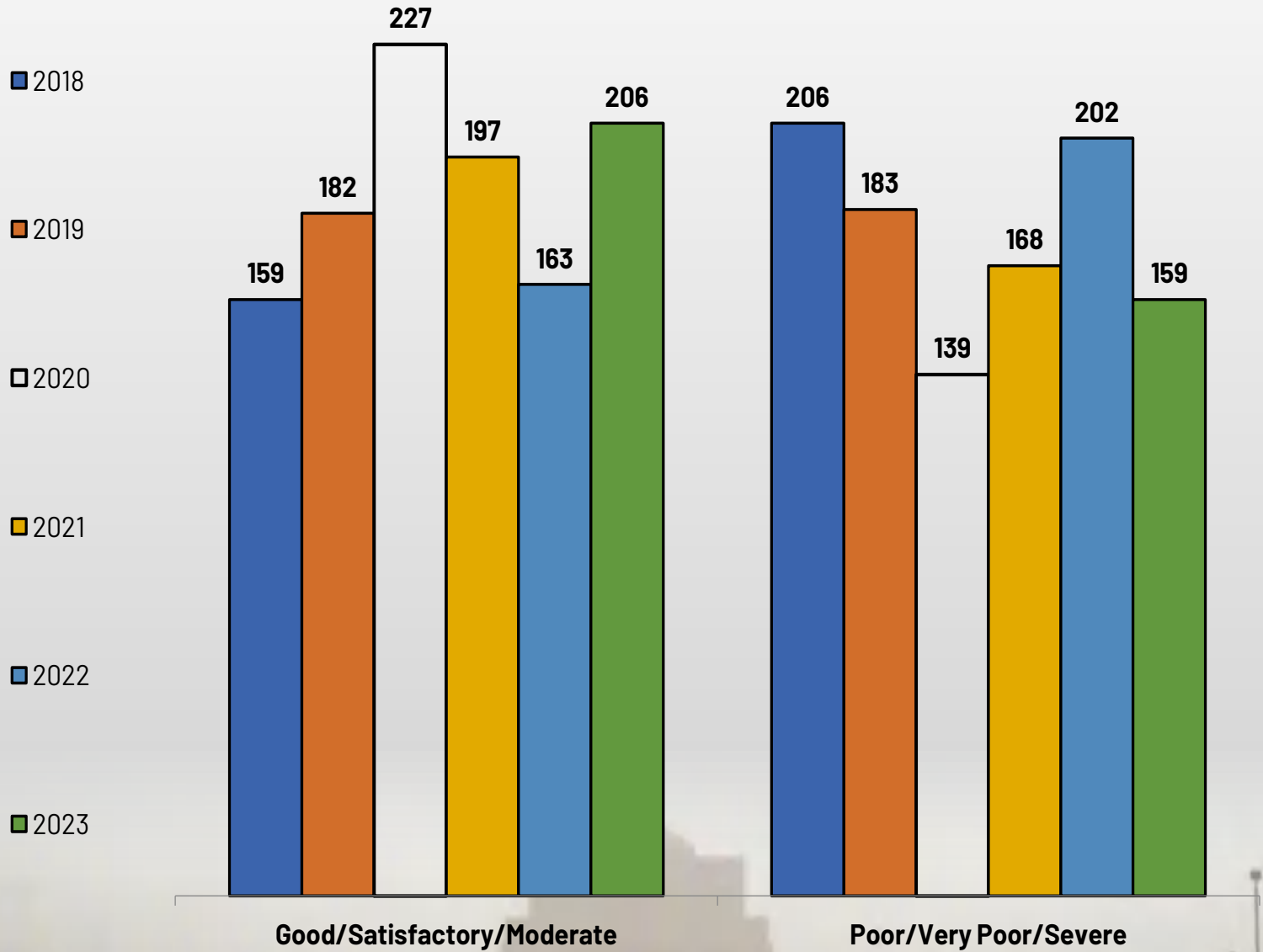
Air Quality in Delhi



01

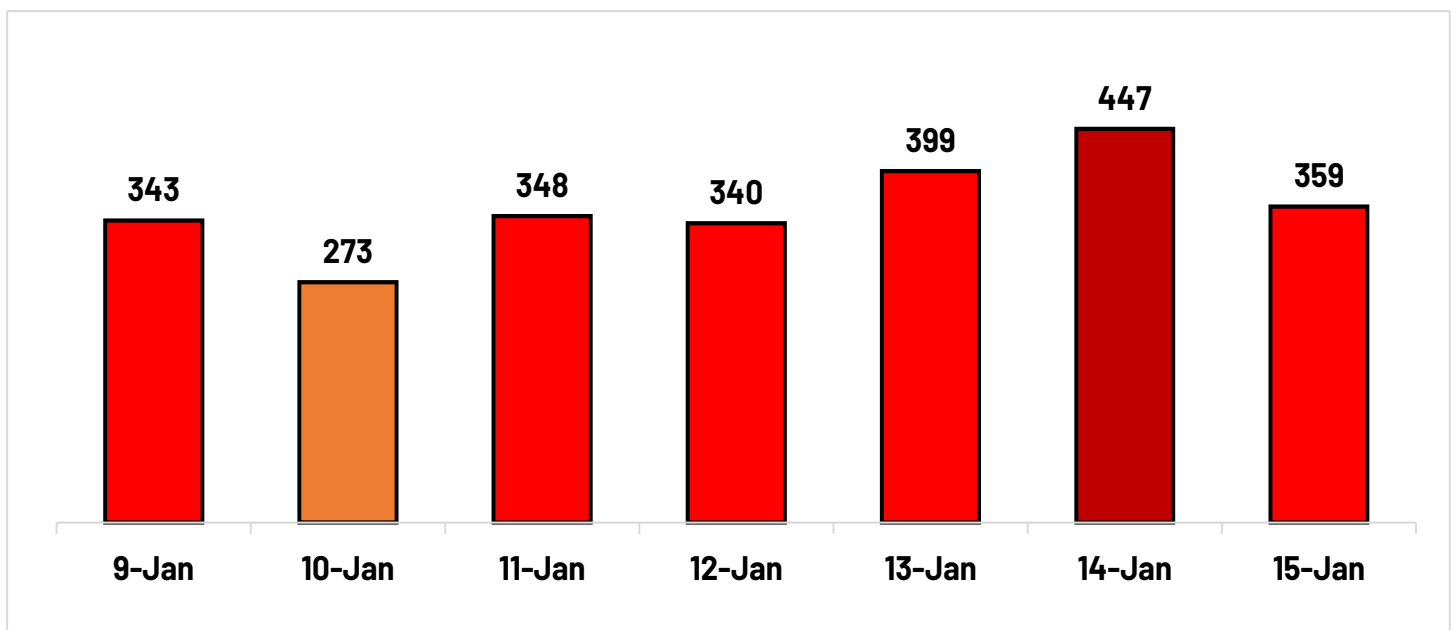
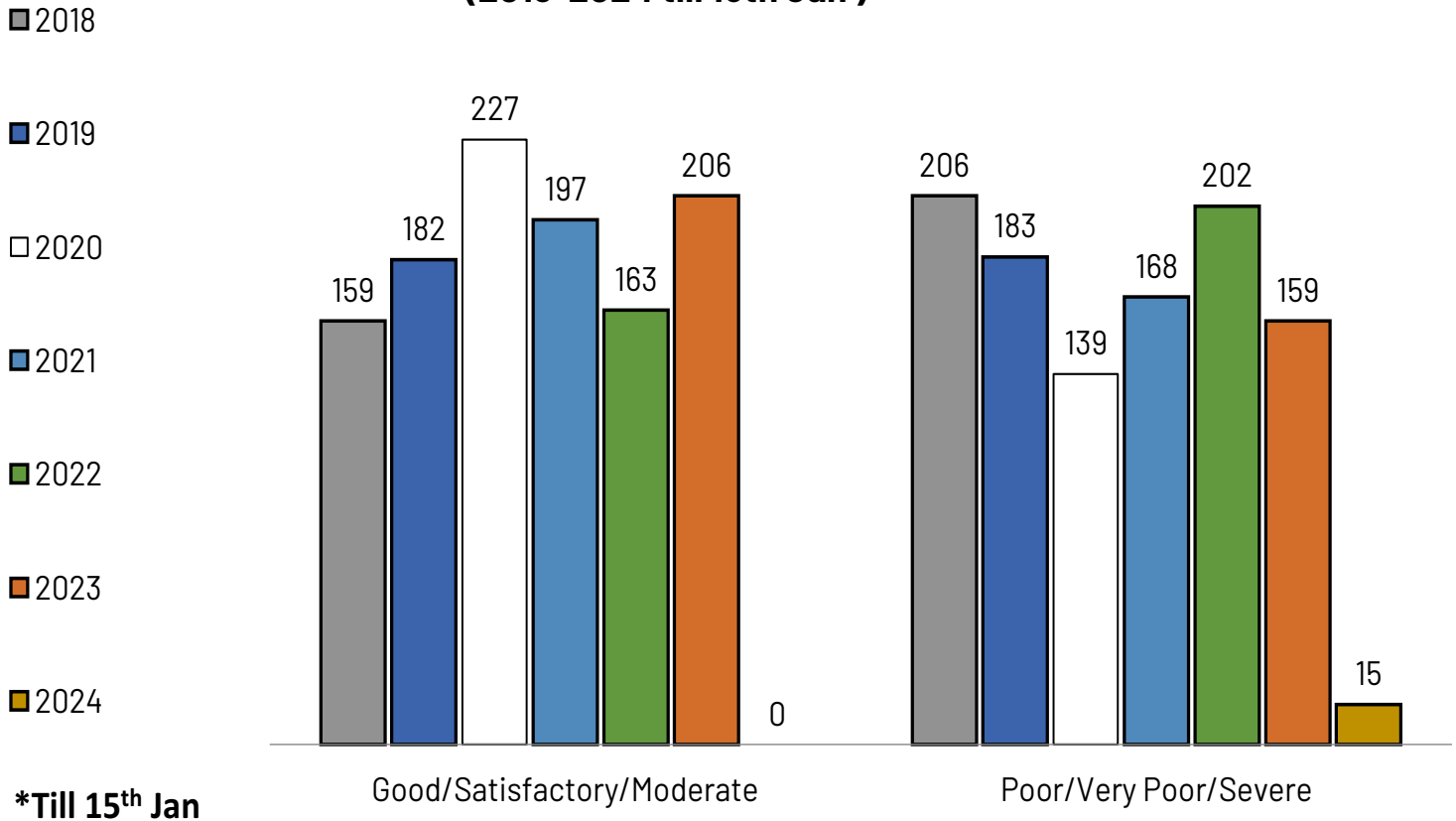
Days According to Air Quality Index in Delhi (2018-23)

Days according to Air Quality Index in Delhi
(2018-2023)



02 Days According to Air Quality Index in Delhi (2018-2024*)

Days according to Air Quality Index in Delhi
(2018-2024 till 15th Jan)



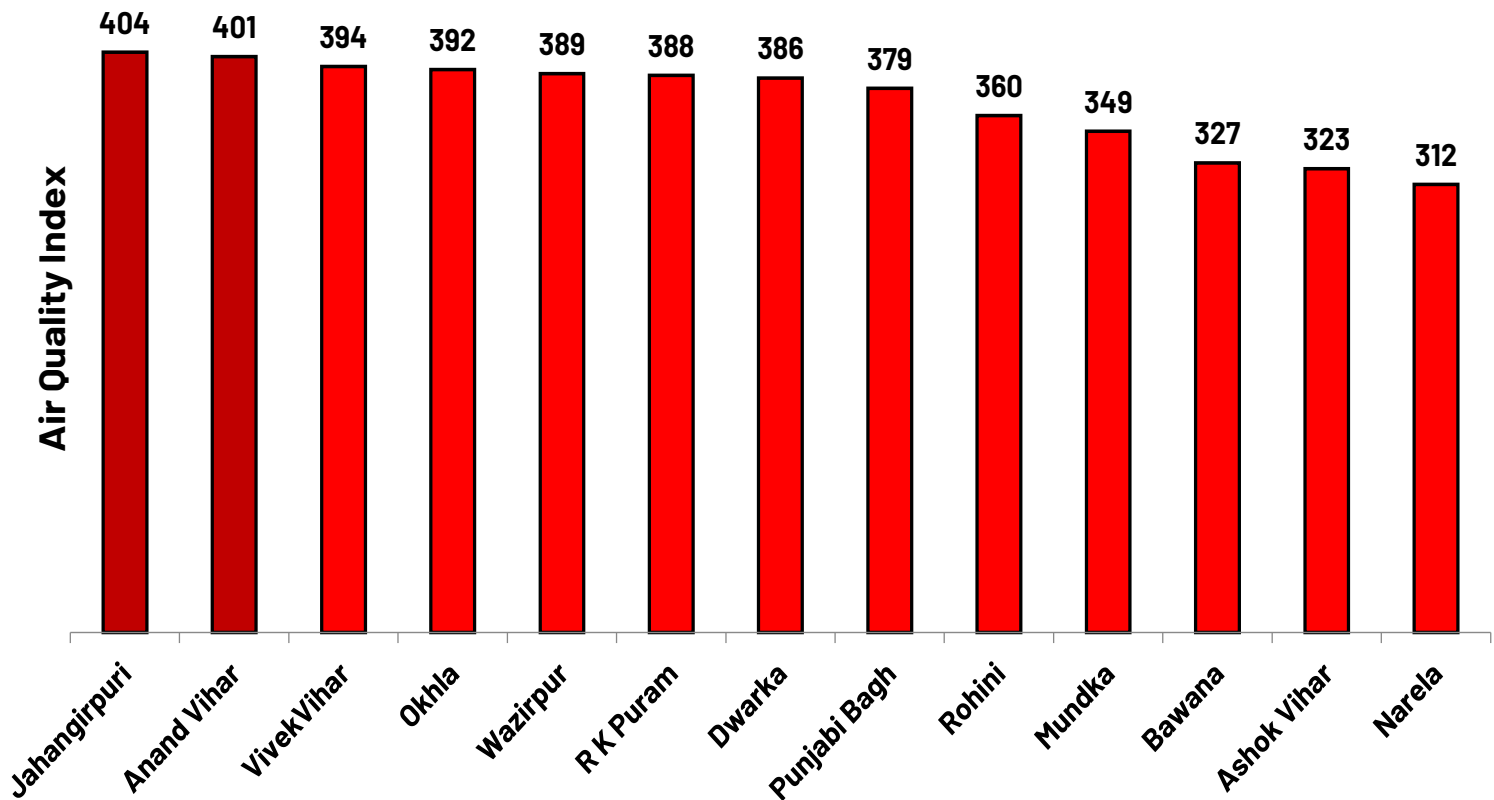
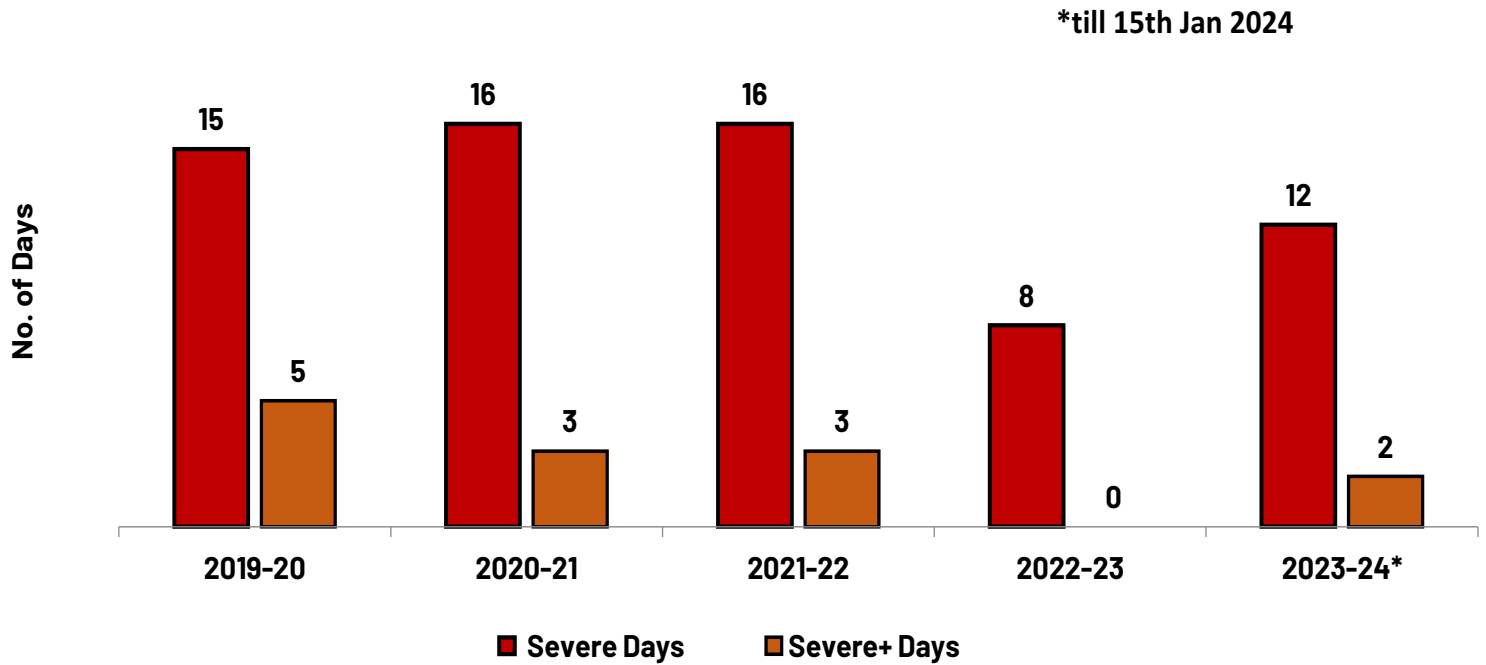
03 Air Quality Forecast

The air quality is likely to remain in Very Poor category on 16.01.2024. The air quality is likely to remain in Very Poor category from 17.01.2024 to 19.01.2024.



04 Severe and Severe +

Period : October to January (Winter season)



Good

Satisfactory

Moderate

Poor

Very Poor

Severe

Severe +

50

100

200

300

400

450

05 Example of Major point sources {inventorization}

Anand Vihar Hotspot



Targeting major point
air pollution sources



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 & Karkadoma)
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)

06 Improvement in Air Quality at Anand Vihar [Dec, 22 & Dec, 23]

12%

Increment in
PM_{2.5} concentration

December
2022-23

16%

Increment in
PM₁₀ concentration

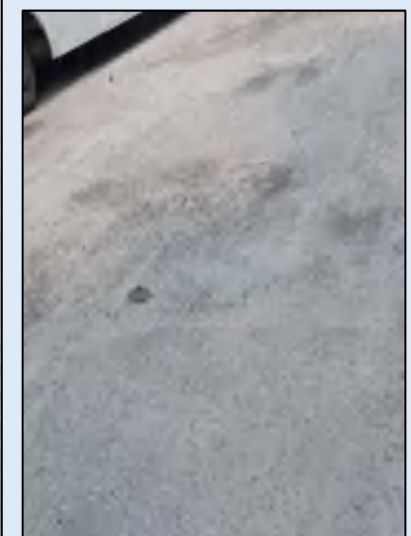
Anand Vihar [Dec, 22 & Dec, 23]

07 Inventorization of Dispersed air pollution sources at Anand Vihar

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

Especially in area surrounding CAAQM Station

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.



Hotspot Name		MUNDKA	Concerned Departments
S. No.	Identified Sources of Pollution / Regarding	Actions which can be taken at this Hotspot	
1	Construction of Urban Extension Road II (UER II) nearby monitoring station.	Dust Mitigation Measures be followed in construction of UER 2 and in operation of RMC Plants.	NHAI
2	Operation of RMC plant by the construction agency of UER II		
3	Unpaved shoulders and potholes on the nearby Delhi Rohtak highway leading to huge dust emission. (Special attention from metro pillar number 410 to 611)	Paving or putting interlocking on the shoulders of the Delhi Rohtak Highway. Removing potholes from the road through proper pavement. Mechanized removal of dust from the pavement./ Water sprinkling on the unpaved shoulder and medians. Redesign / reconstruction of storm water drain along Delhi Rohtak Road starting from Maharaja Surajmal Stadium supplementary drain to Hiran Kudna	PWD MCD

MUNDKA

Hotspot Name		MUNDKA	
S. No.	Identified Sources of Pollution / Regarding	Actions which can be taken at this Hotspot	Concerned Departments
4	Traffic congestion below Mundka Industrial area metro station intersection due to higher traffic volume on Delhi Rohtak highway.	Proper regulation of the traffic, possibly providing U turn after the Mundka Industrial area metro station for the Rani khara Mod	Delhi Traffic Police
5	Unpaved roads inside Mundka Redevelopment area	Pavement of roads inside the Mundka industrial area. Water sprinkling on the unpaved roads on regular basis	Industries Department DSIIDC
6	RMC Plant operation inside the nearby DMRC Casting Yards	Dust mitigation measures and guidelines to be followed by RMC plants inside casting yards	DMRC
7	Dust emission from potholes and unpaved Shoulders of Shaheed Vikrant Singh Lakra Marg starting from Ranikhera Mod Red light	Paving of potholes and shoulders and water sprinkling of dust emission sources on regular basis	MCD

08 Monitoring 8 Parameters

Strong Monitoring System

Monitoring 08 ambient air quality parameters on real time basis at 40 locations [26 DPCC, 6 CPCB, 8 IITM].

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].

09 Research based actions

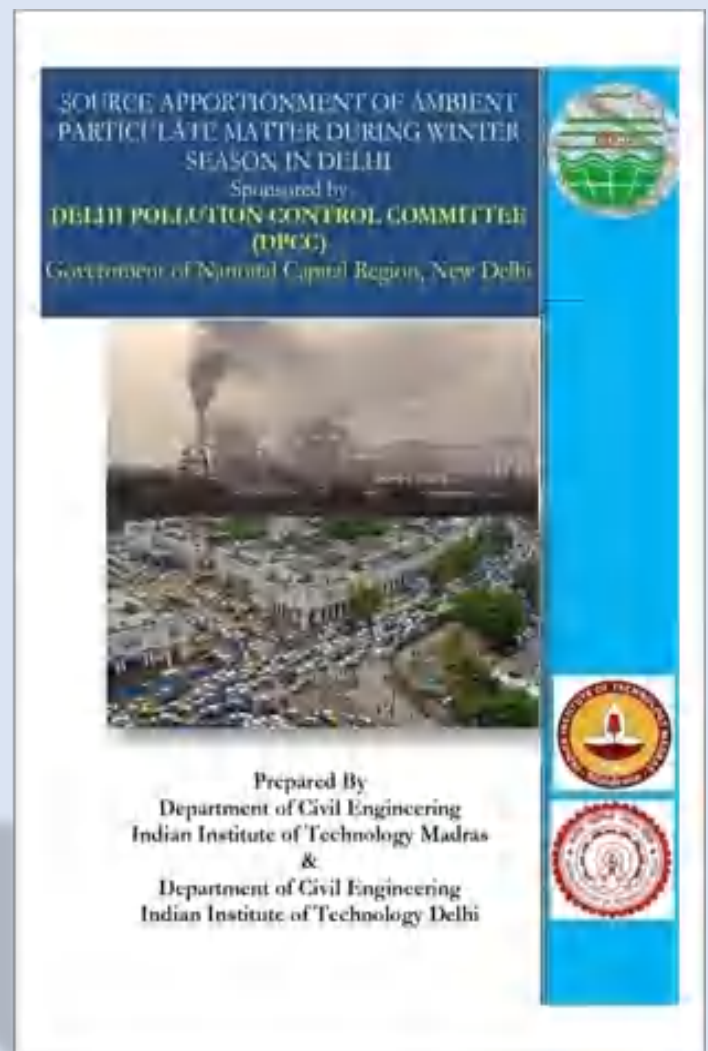
Research studies

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

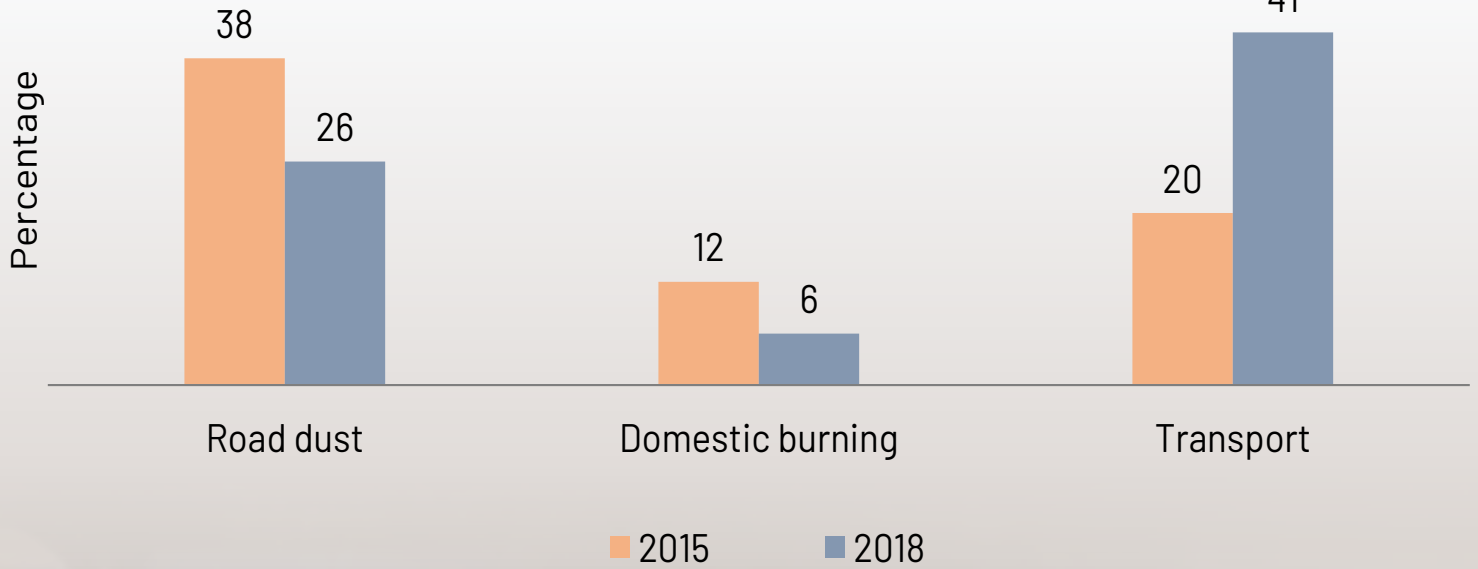
- Top contributors: Vehicles, Road dust, Construction Dust, Biomass burning and Industrial sources
- Combustion sources, vehicles, biomass burning and MSW burning are consistent sources in winter



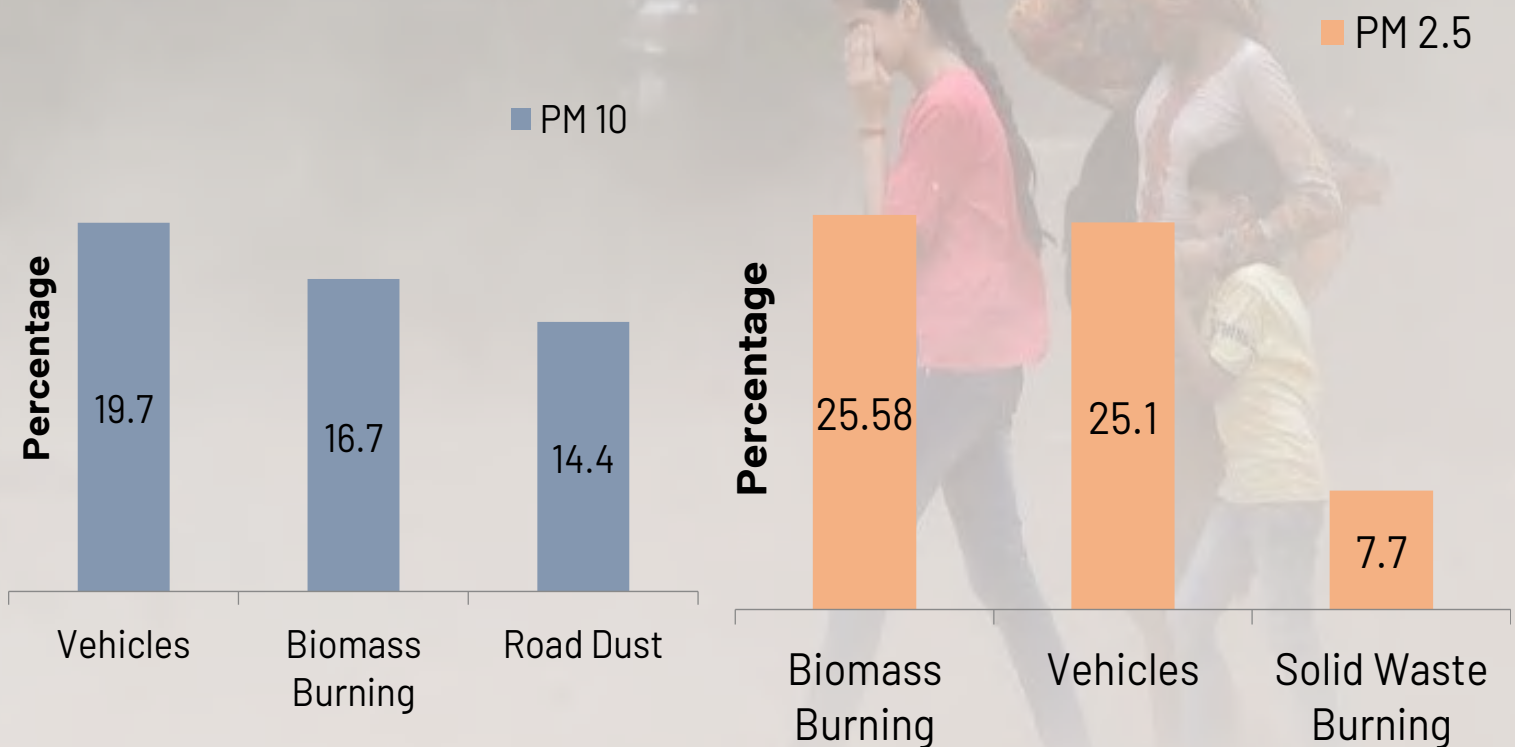
10

Emission inventories

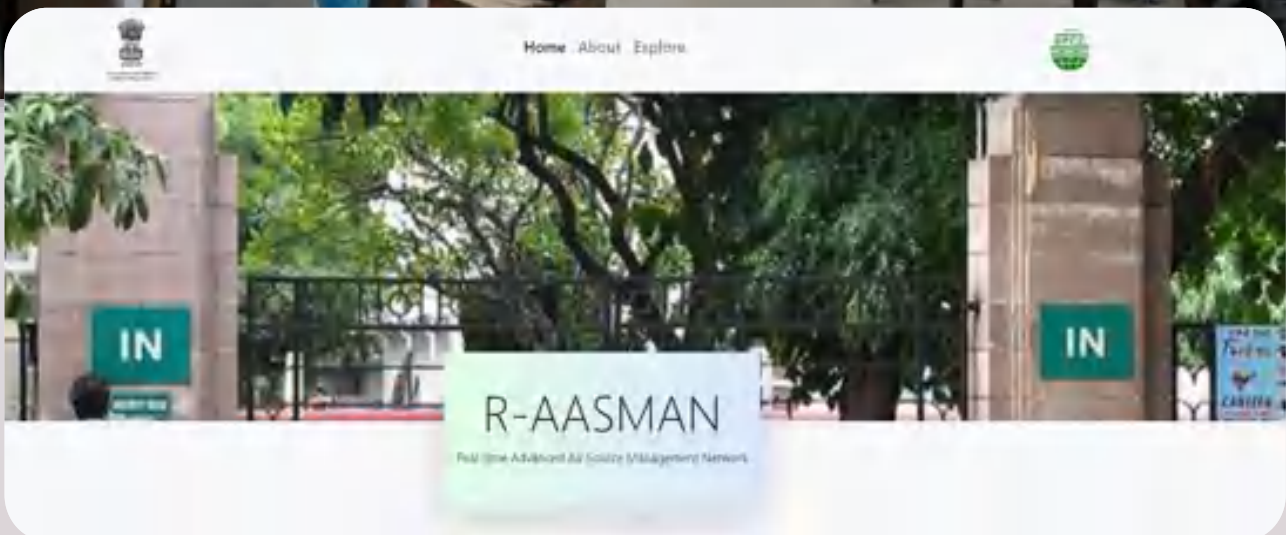
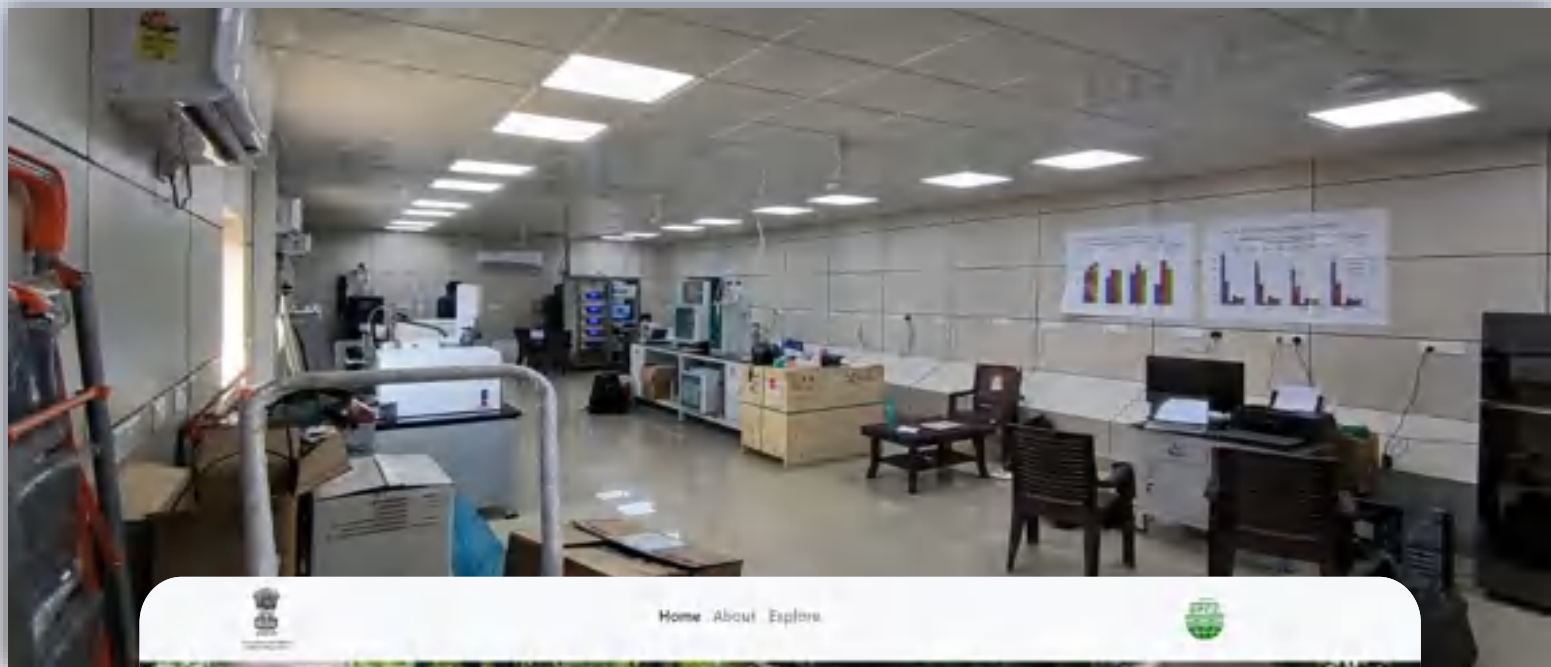
Variation in contribution of PM_{2.5} over the years



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



11 Strengthening Scientific Evidence Based Policy & Action Real Time Source Apportionment



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.

Hourly forecast for 3 days and daily forecast in fifteen days for prediction for concentration of pollutants and their sources.

Data flow started. Validation completed. Being correlated with actionable

12

Implementation of Graded Response Action Plan

Stage I

Poor

AQI
201-300

06.10.2023 to
20.10.2023

**Graded Response Action Plan (GRAP) invoked
at least two-three days in advance** based on
the prediction of air quality forecasting models
(invoked on 6th Oct, 23 onwards)

Stage II

Very Poor

AQI
301-400

21.10.2023 to
01.11.2023
29.11.2023 to
21.12.2023
01.01.2024 to
13.01.2024

Stage III

Severe

AQI
401-450

02.11.2023 to
05.11.2023
19.01.2023 to
28.11.2023
22.12.2023 to
01.01.2023

Stage IV

Severe+

AQI
> 450

06.11.2023 to
18.11.2023

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

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



13

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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14 Development of Extensive C&D Waste Processing Facilities

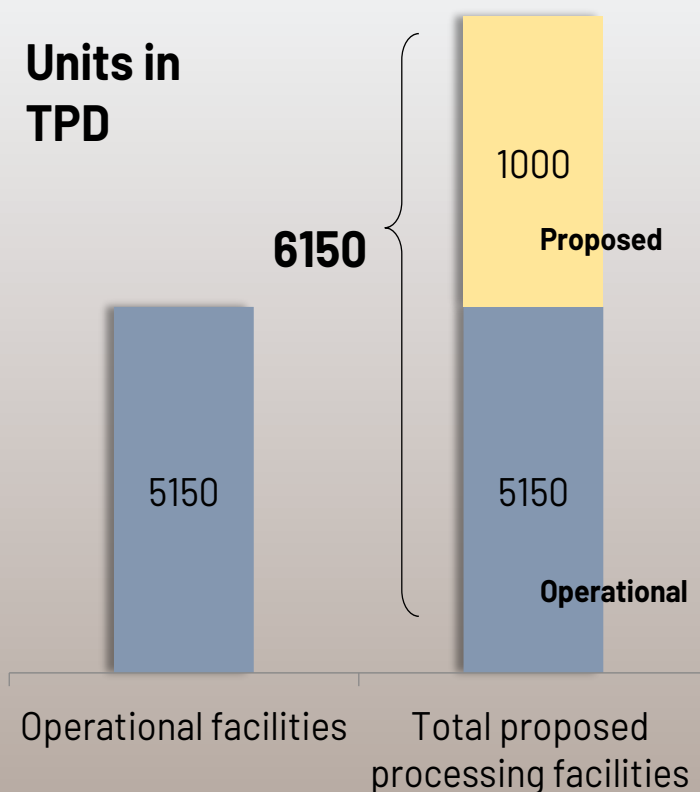
C&D waste generation approx. 6000 TPD in Delhi.

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**. DDA has been requested to allocate the land for the same.

Units in TPD



15

Deployment of ASGs at C&D Sites

CAQM's Standards/ Guidelines pertaining to mitigating 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

235

Deployment of **235 anti-smog** gun at large construction sites



16 Monitoring Through C&D Web Portal

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

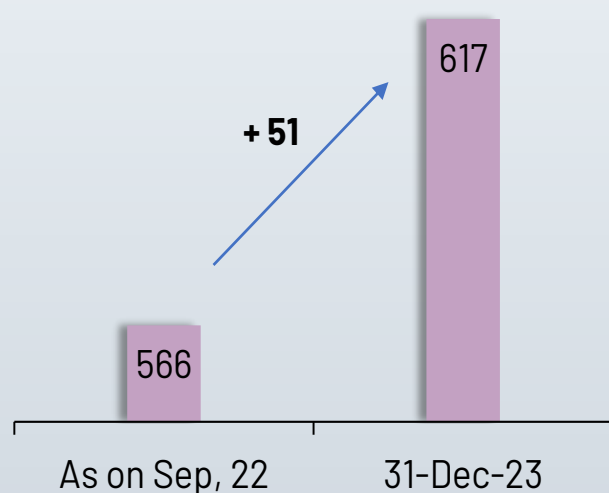
Web portal for Construction and Demolition sites of 500 Sq mt and above built-up area launched by DPCC in Sep, 2021.

Capacity building of all stakeholder departments by Apr, 2023 on registration and review of self-assessment reports followed by personal hearings to more than 400 PPs during April to June 2023

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

591 Teams for ensuring compliance of dust control norms are deployed during winter 2023

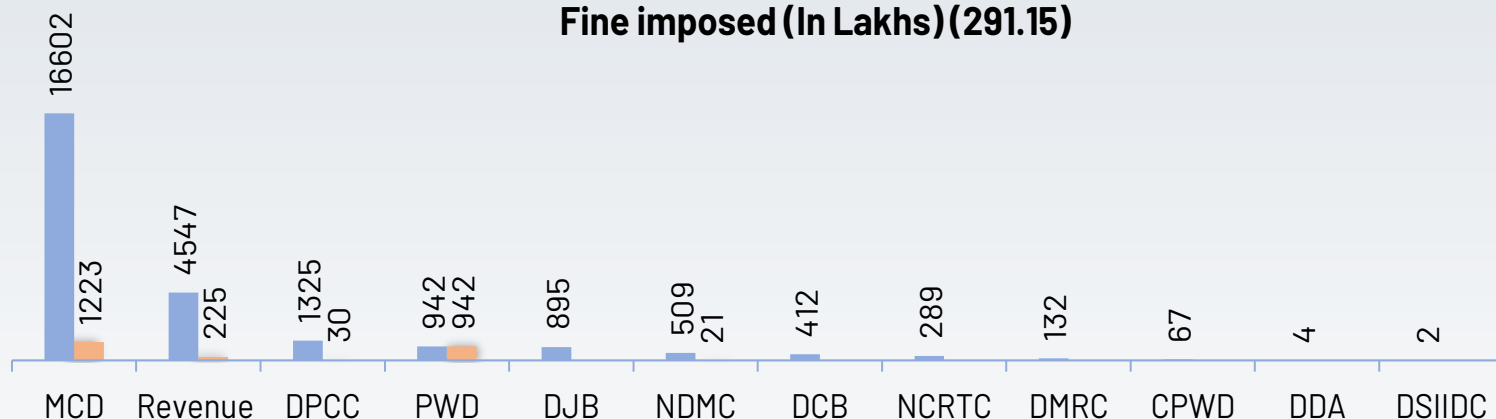
No. of active sites registered on portal



Enforcement : Oct ,2023 to Dec, 2023

■ Inspections conducted (25726) ■ Found defaulting (2441)

Fine imposed (In Lakhs) (291.15)



02

Mitigation Of Dust from Road and Open Areas



17

Mitigation of Dust from Road and Open Areas

Strategies

01

Institutionalized monitoring
of Road dust management

05

ASGs on top of High Rise
Building

02

Deployment of MRS Machines

06

Augmentation of MRS | WS |
ASGs

03

Deployment of Water
Sprinklers

07

Greening of central verges

04

Deployment of Antismog
Guns

08

Repair and maintenance of
road patches/ potholes



18 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.

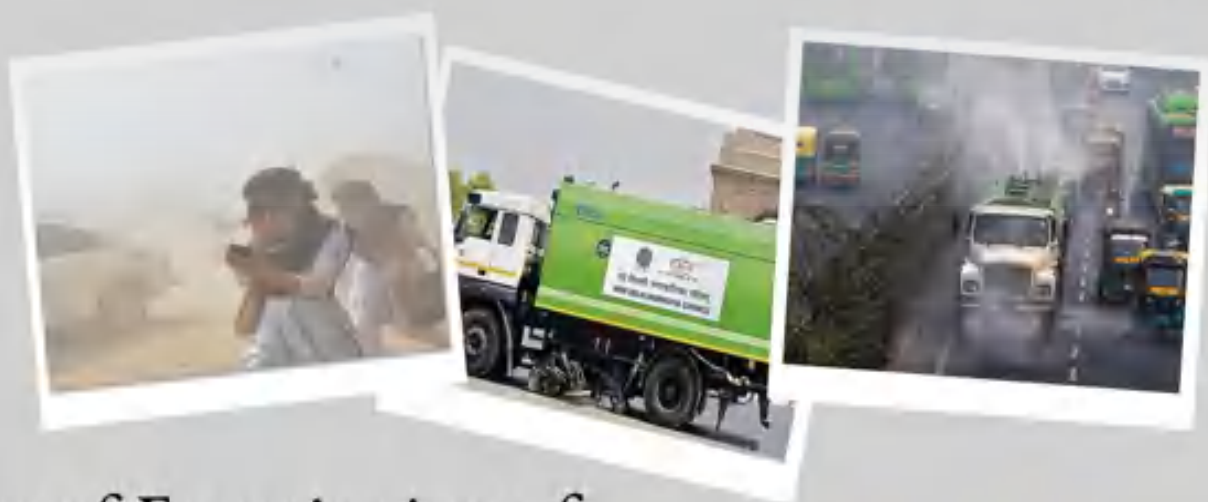
CAQM reviews progress regularly.

Road Owning Agencies

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

Department of
Environment

Govt. of NCT
of Delhi



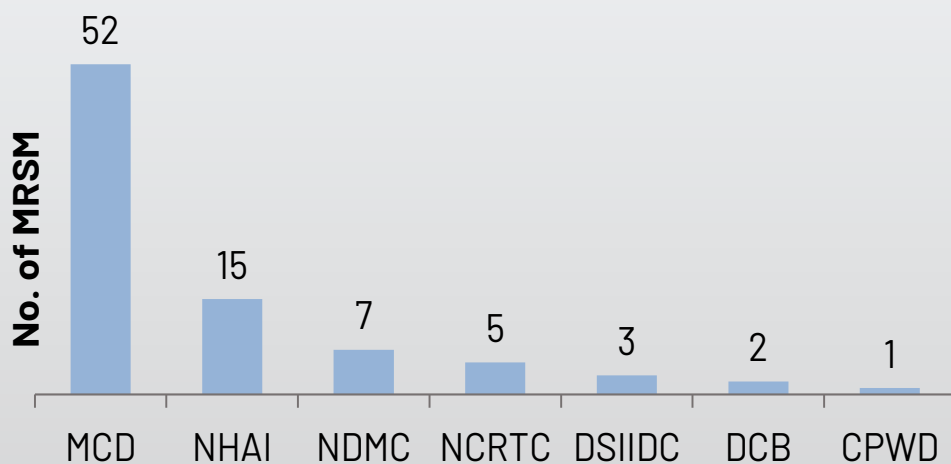
Review of Functioning of Dust Control Management Cells



19

Deployment of MRS Machines

MRS Deployed Dec 2023: 85



Covering 35 Km/MRS/Day

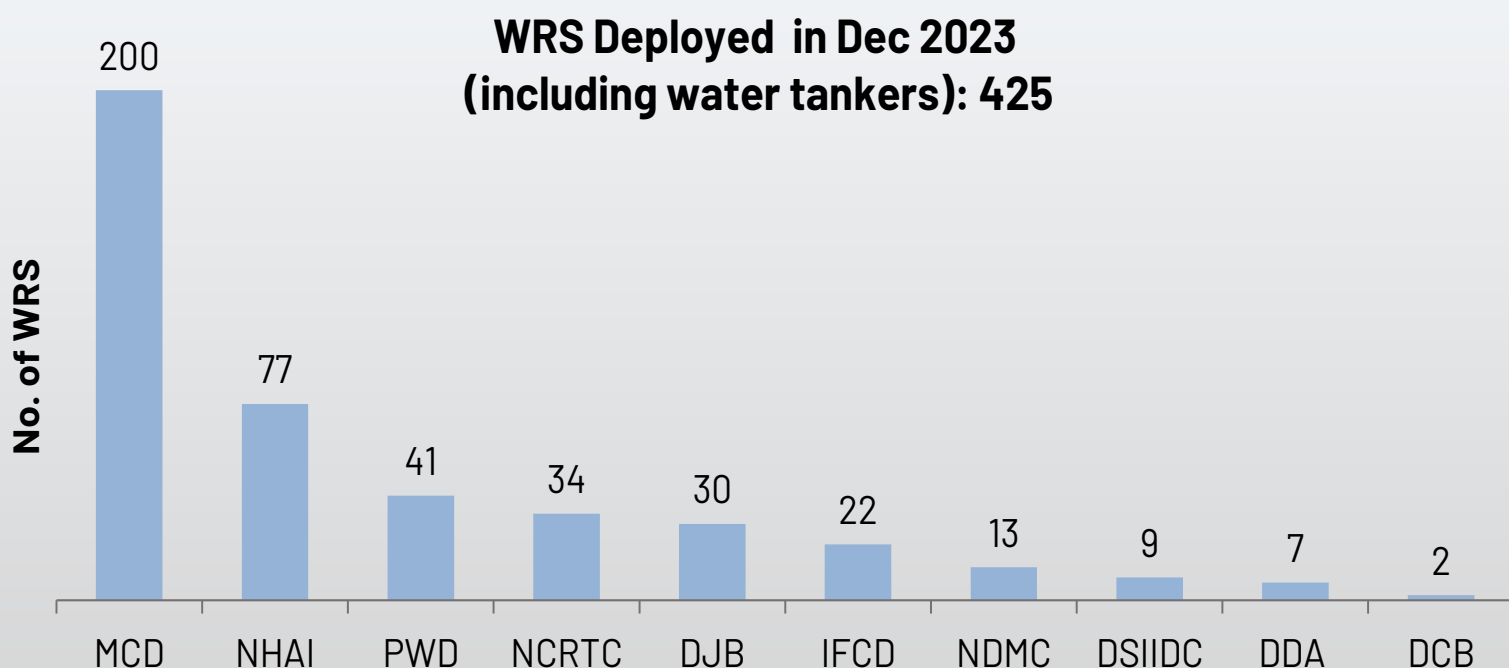
Ensuring scientific disposal of dust collected.

18 MRS

Procurement under approval :
MCD



20 Deployment of Water Sprinklers



3428 Km/Day

Average Road length covered per Day.

Water Sprinkler Capacity range : 1000- 10000 Liters

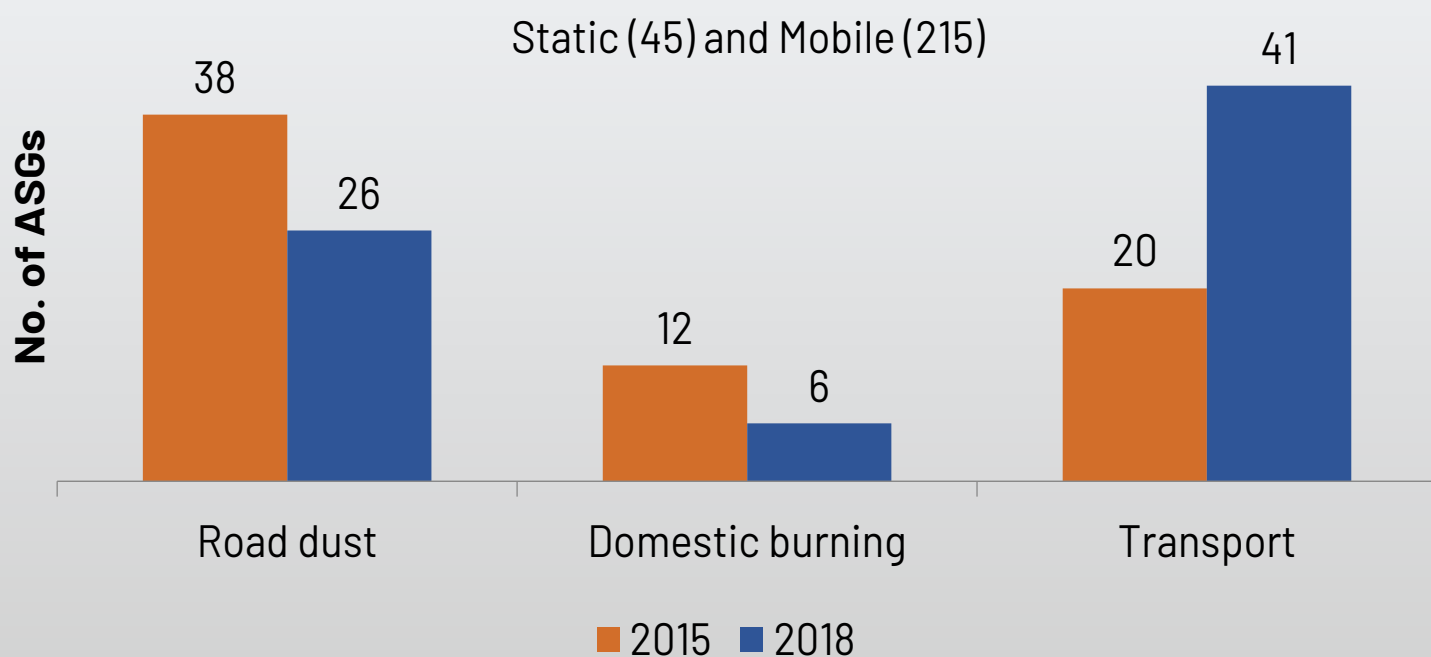
Dust suppressants trials done by ULBs



21

Deployment of
Antismog Guns

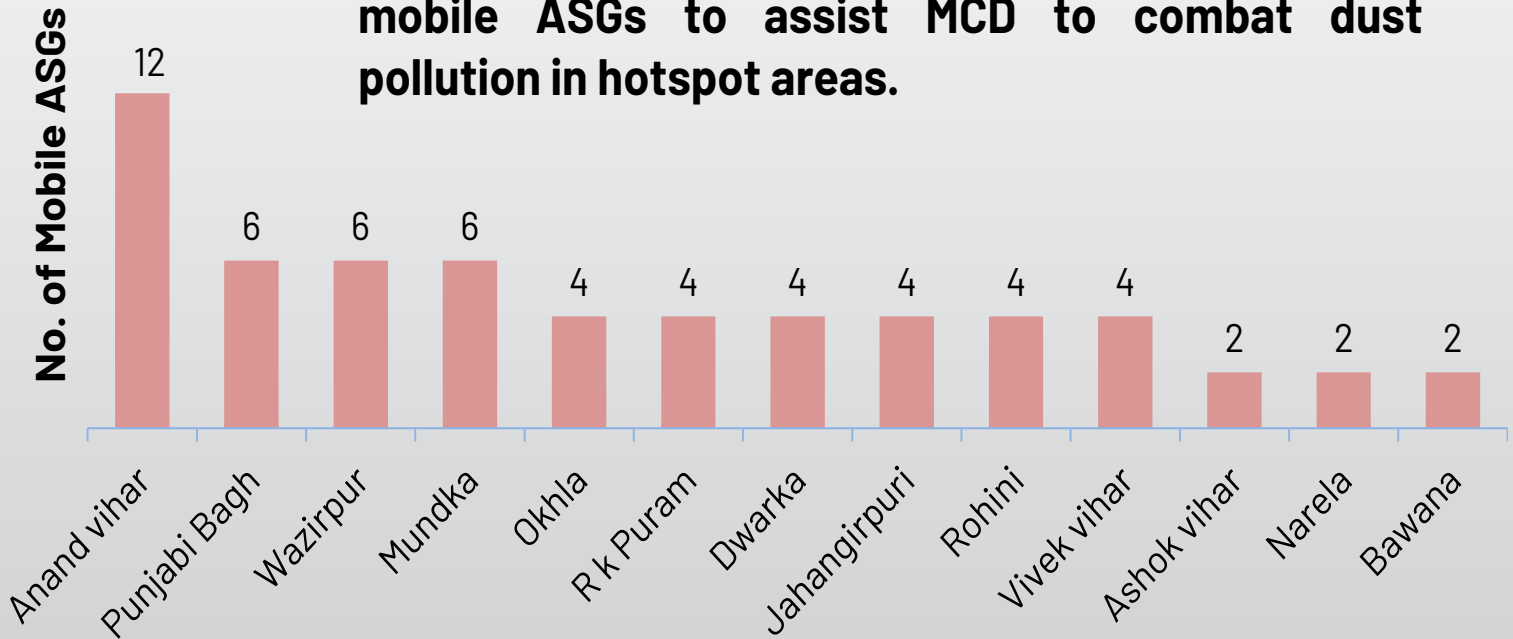
Total ASGs Deployed as on Dec, 23



22

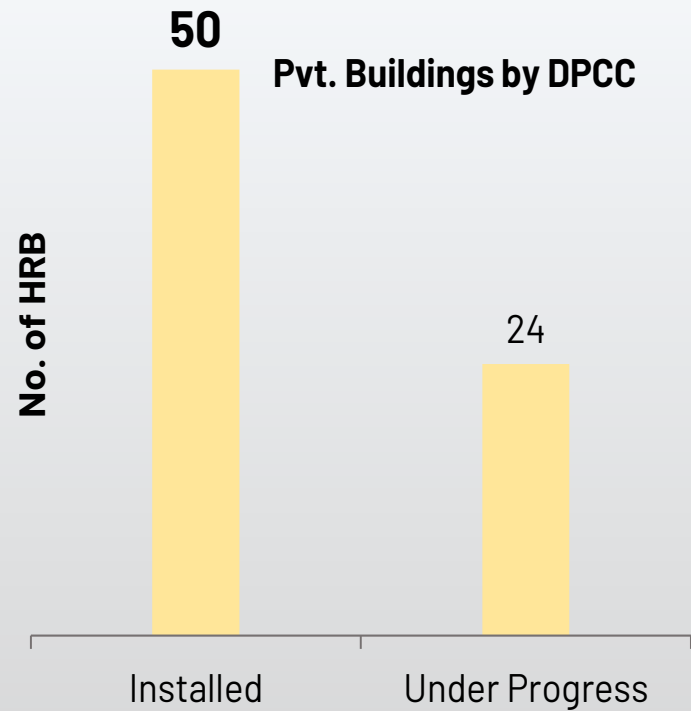
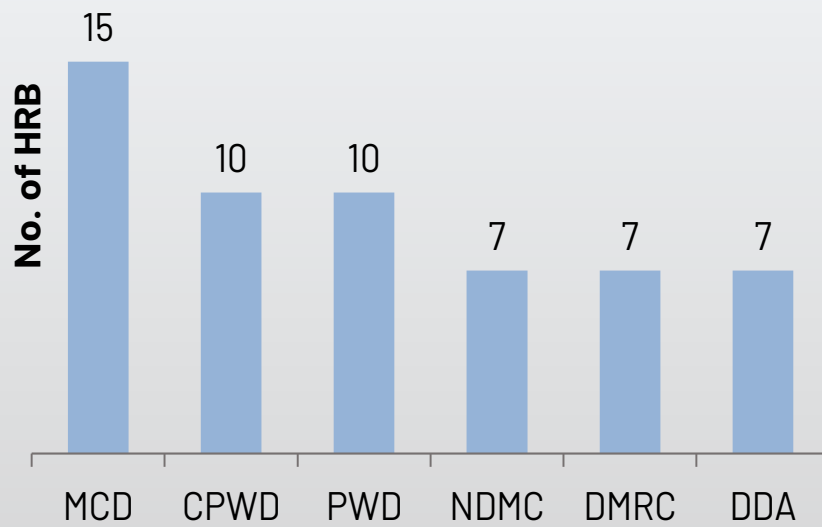
Deployment of Mobile ASG Hotspot Wise

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



23 Deployment of ASGs on High Rise Building

Govt Buildings Identified : 56



More than 90 high-rise govt buildings identified so far.

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.

48 Installed at
Government Building



24 **Funding to MCD and PWD for MRS | WS | ASGs**

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.11.24 Crore for 2021-2022 and 22.50 Crore for 2022-23.

Transferred 100% funds [33.74 Cr.] to MCD for purchase of 14 MRS and 28 Water Sprinkler/ Anti-Smog Guns and 2 Nos. pothole repairing/ road patching machine

Further fund allocation dependent on performance assessment and utilization of previous funds.



Funding to PWD for mobile ASGs

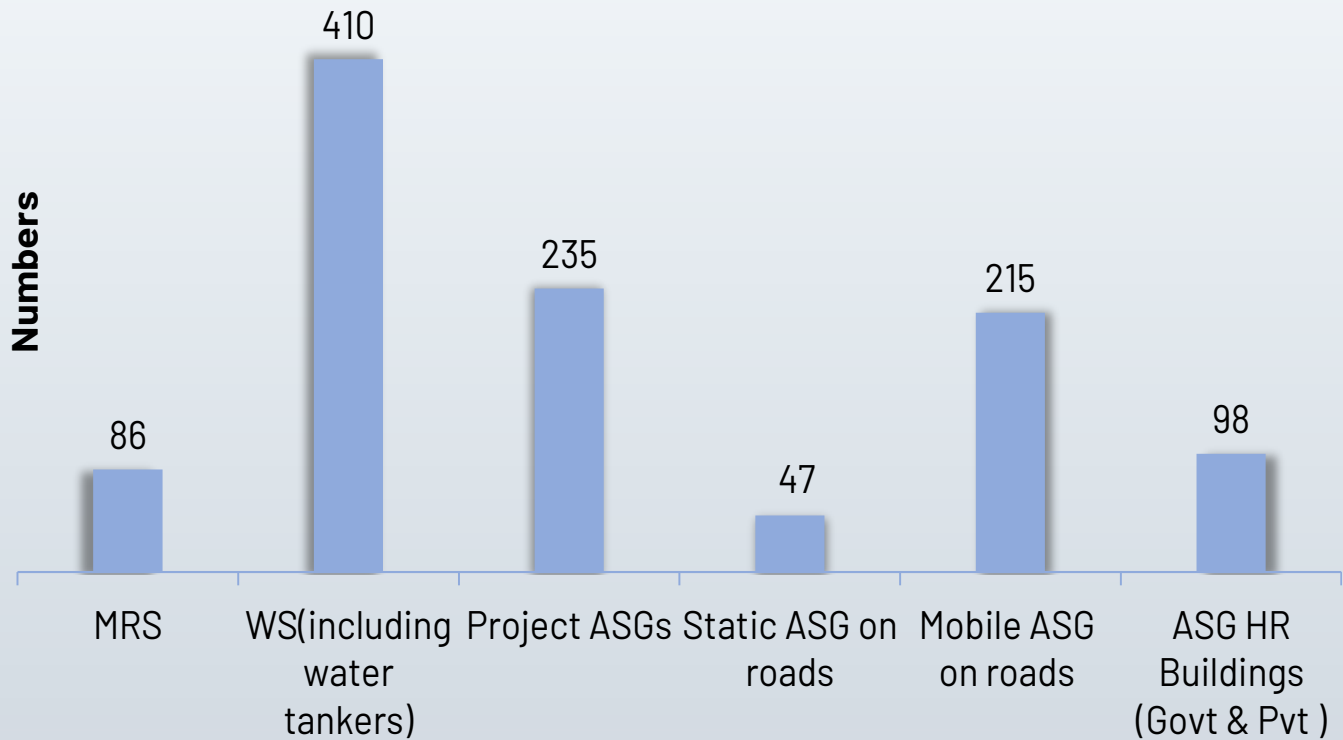
200 **(Proposed)**

Approx. Rs 40.84 Cr has been allocated by Department of Environment during FY : 2023-2024



25

Machines in summary MRS | WS | ASGs



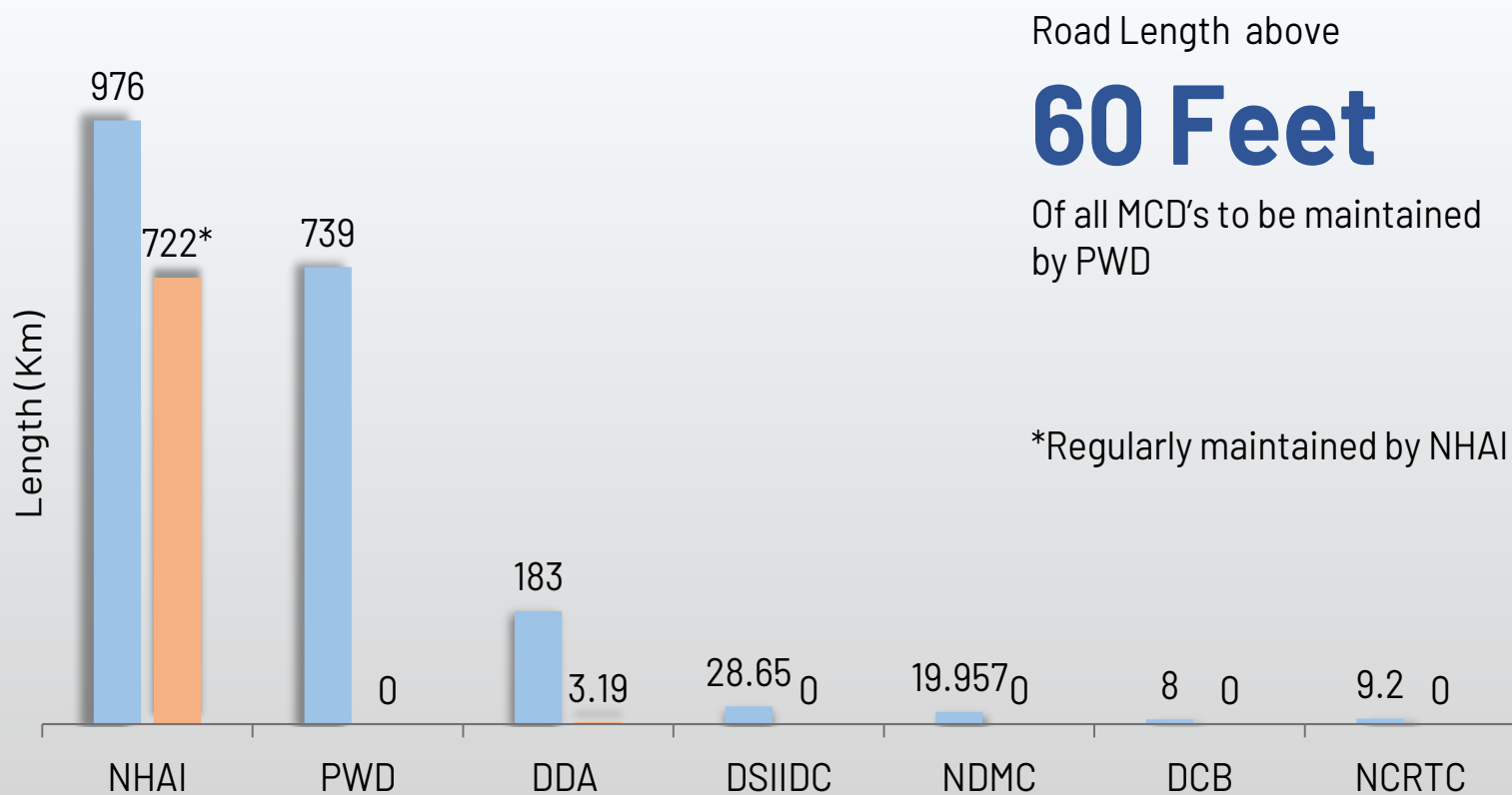
Intensified measures (GRAP)

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.

26 Greening of Central Verges, Dec-2023



■ Total length of central verges (1963.807 Km) ■ To be greened (3.19 Km)

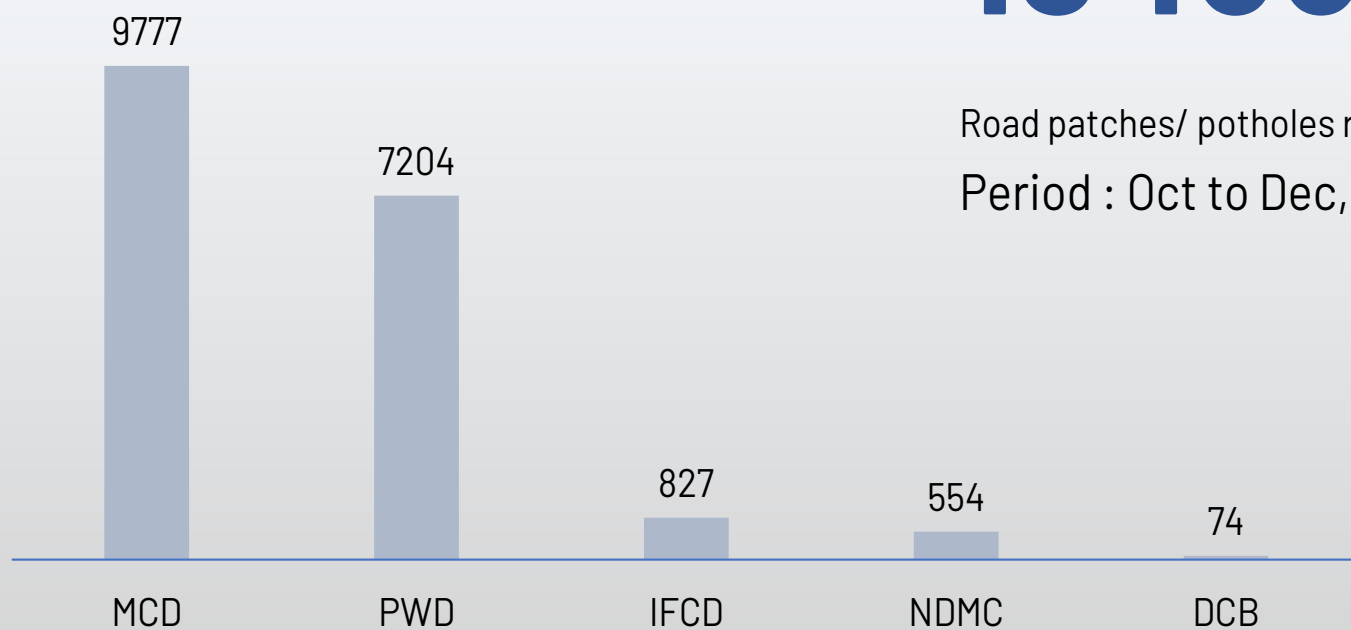


27

Repair and maintenance of Road Patches/ Potholes

18436

Road patches/ potholes repaired
Period : Oct to Dec, 2023



NHA: Regularly repair of potholes & patches



28 Implementation of Scheme

One Road Per Zone Every Week

Road owning agencies to undertake repair/ maintenance of at least one road per zone (end to end-on both side) along the length and breadth, including RoW (if any), every week, preferably on Saturday.

Pot-holes, Damaged black top, Damaged footpath etc.

228

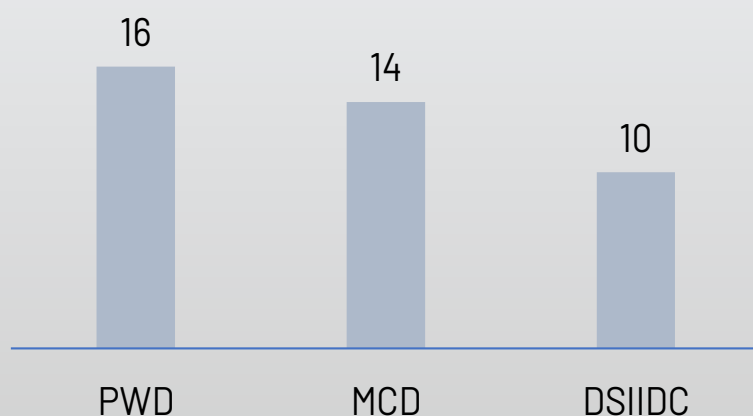
Roads inspected by DPCC

188

Roads found maintained

40

Roads not maintained/repared end to end



03

Control of fires incidences in sanitary landfill sites



29 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



30 Ensuring 100% Household Waste Collection & Segregation

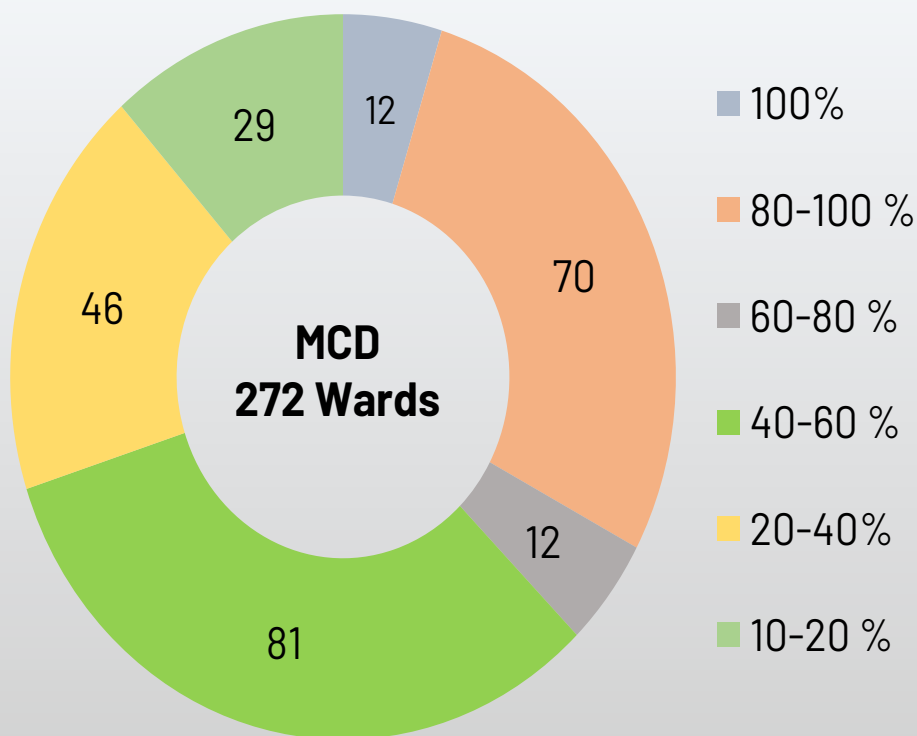
100 %

Collection of MSW
by Local bodies

NDMC: 100 % in all 14
Circles

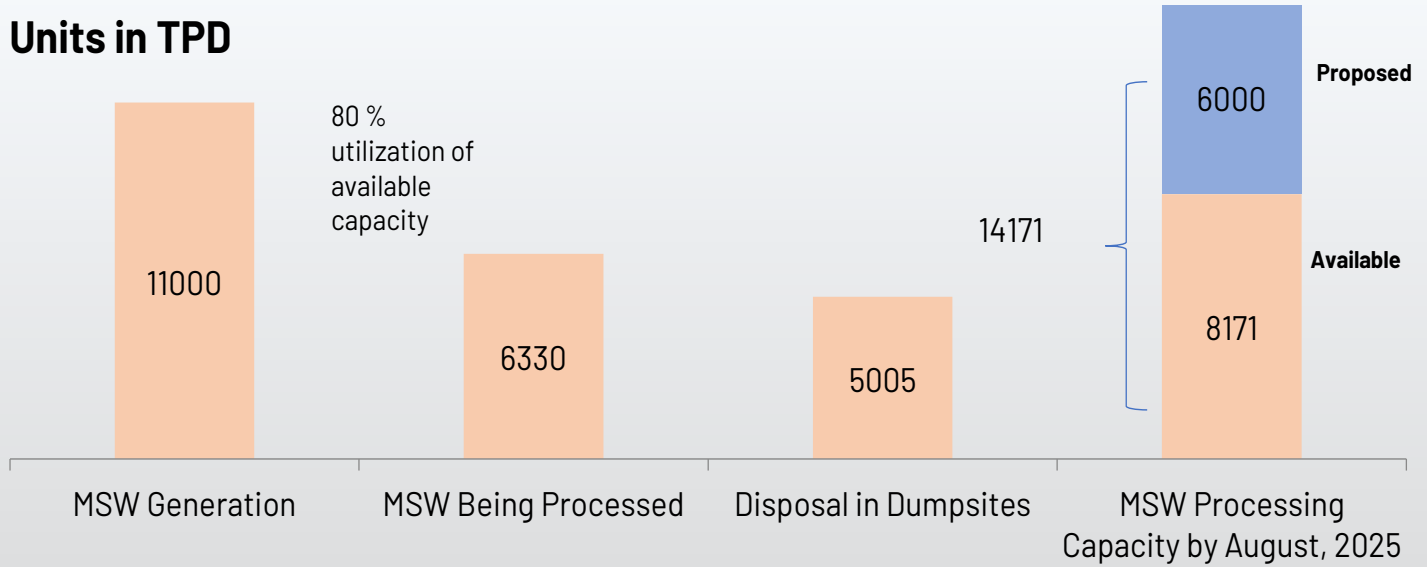
DCB: 95-100 % in Model Wards
of Civilian Area and 60-70 % in
Army Area

MCD: 100 % segregation
Timeline - Dec, 2024



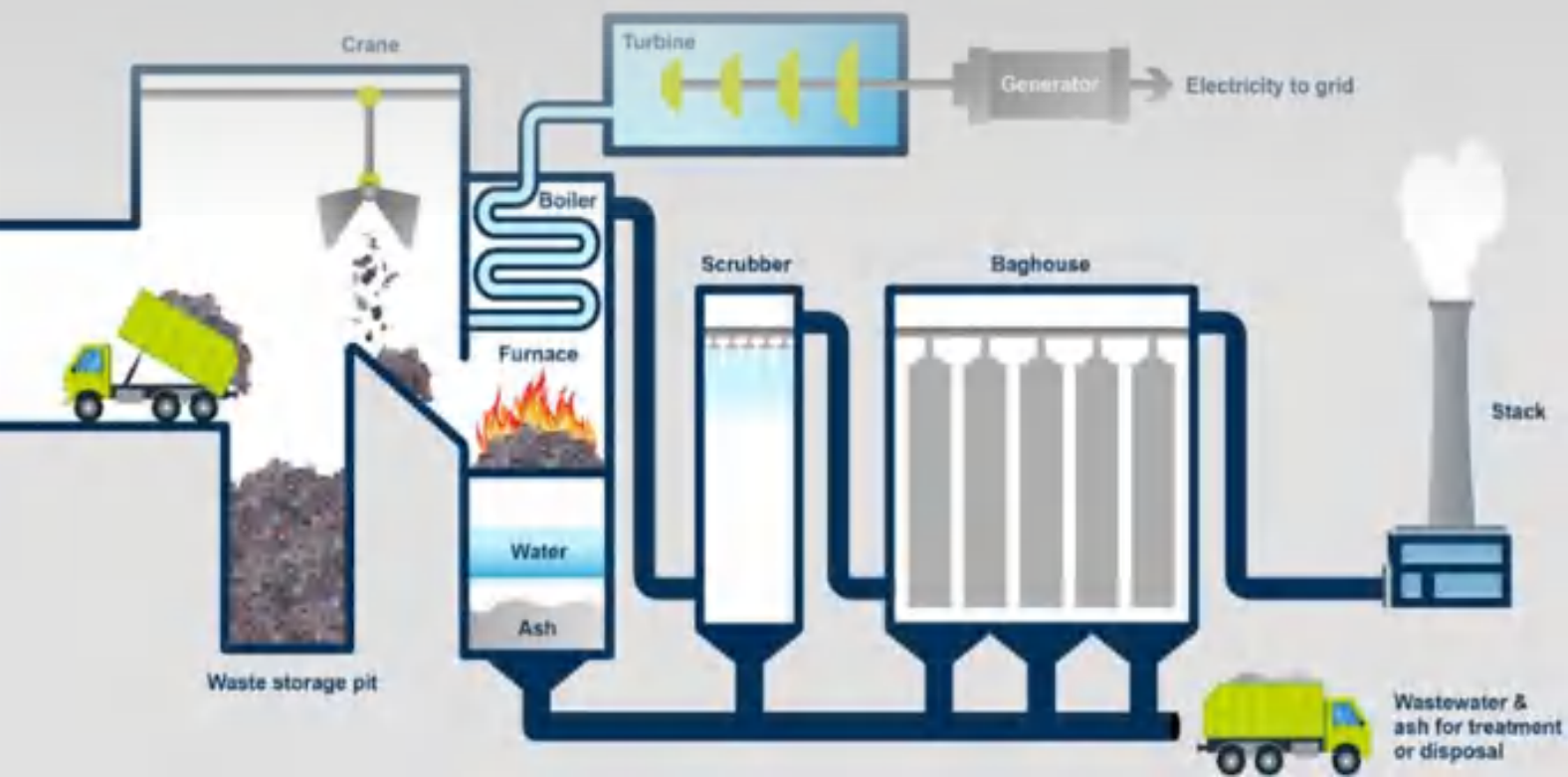
31 Processing of Municipal solid wastes (MSW)

Units in TPD



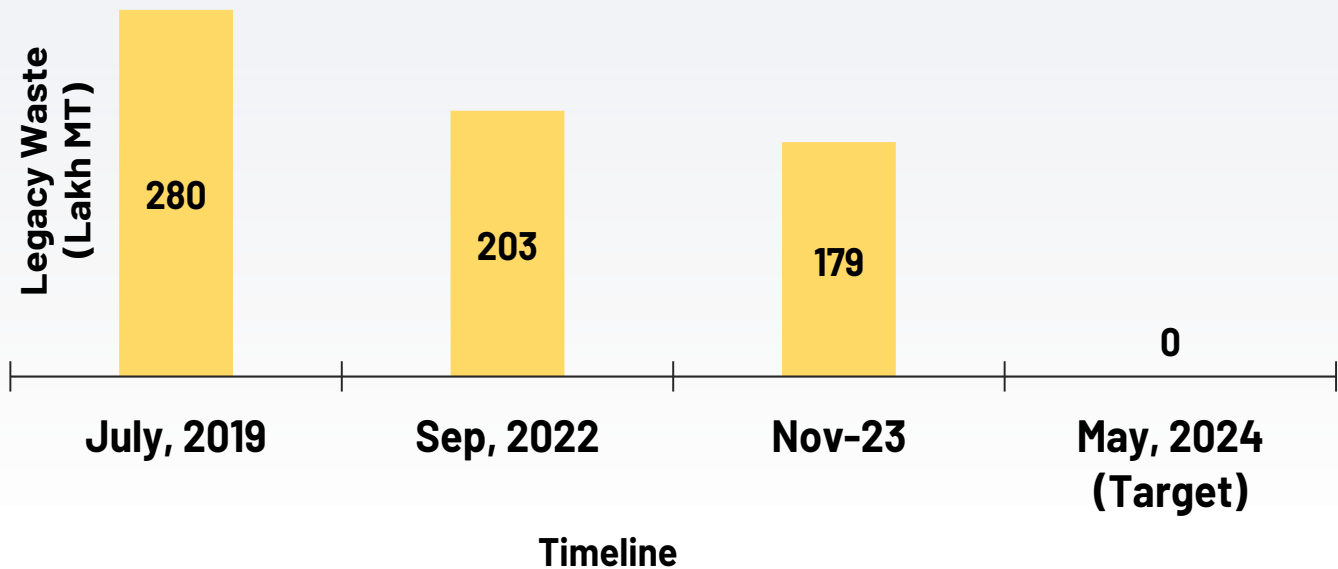
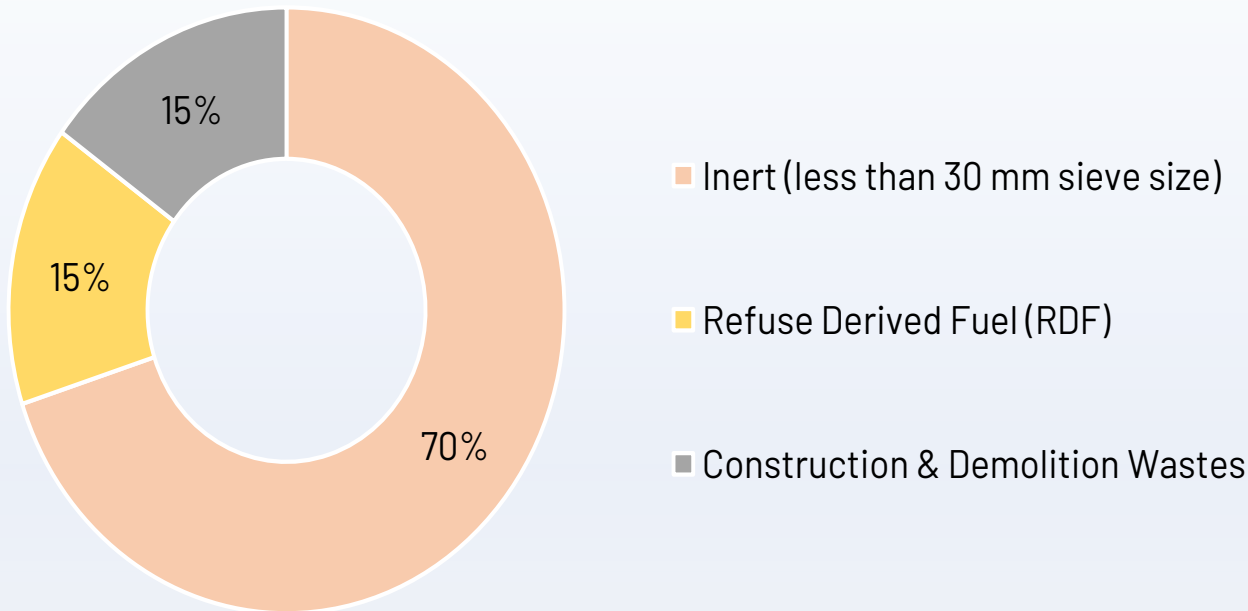
Major Proposed Projects: .

- 3000 TPD Waste to Energy Plant at Narela – Bawana (Timeline: 2026)
- 2000 TPD Waste to Energy Plant Ghazipur (Timeline: 2027)
- Expansion of existing WtE of 1950 TPD at Okhla to 2950 TPD. (Timeline: Dec 2024)



32 Remediation of Legacy Waste

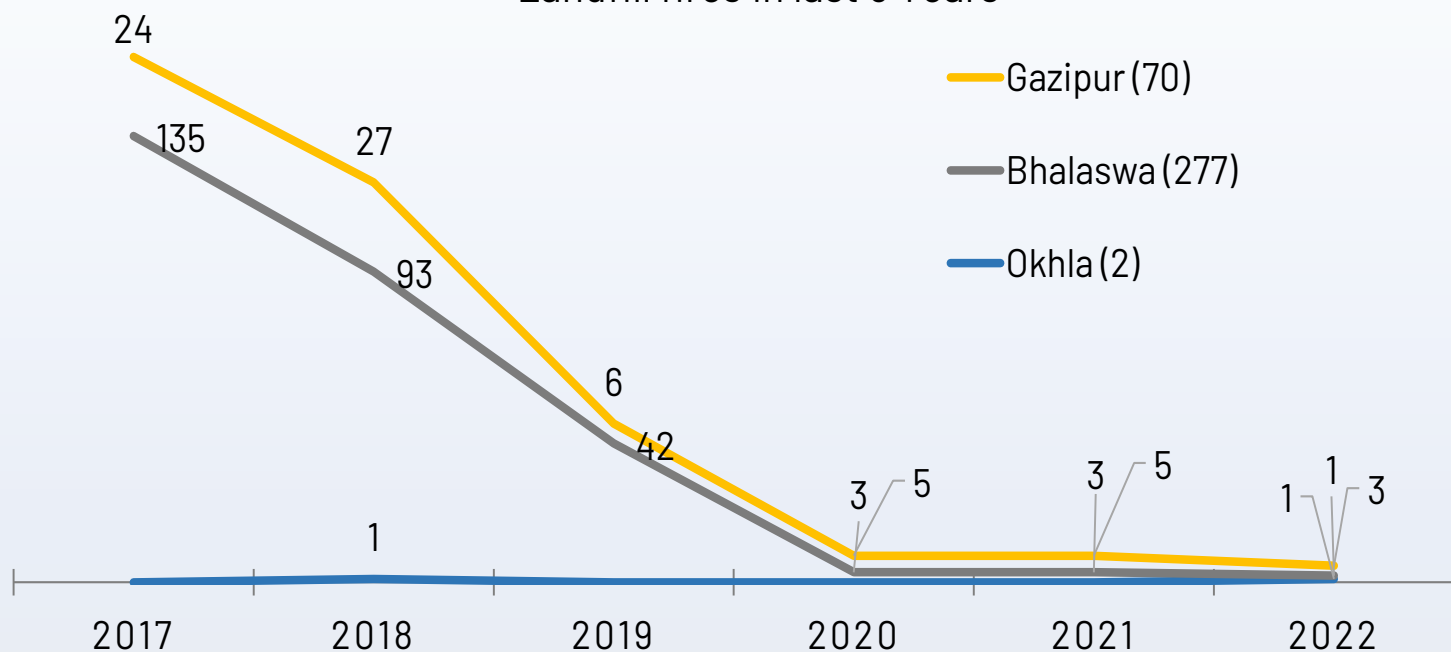
Composition of Biomined legacy waste



58 Trommels Machines in operation

33 Control of Fires in Landfill Sites

Landfill fires in last 6 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 five years from around 159 fire incidents in 2017.

Only 5 fire incidents (4 major + 1 minor) reported in 2022.

Only 1 fire incident reported this year at Gazipur landfill site in June, 2023

Target : Zero landfill fire in winter 2023-2024

04

Prevention of open burning of MSW and biomass



34 Prevention of Open Burning of MSW and Biomass

Strategies

01

Enforcement : MSW burning

03

Burning along railway tracks

02

Bio-decomposer Technique,
Subsidised Machinery

04

Lifting and proper disposal of
industrial waste



35 Enforcement Biomass Burning

Period: Oct, 2023 to Dec, 2023

23826

No. of inspections of garbage
burning sites conducted

**Rs. 6.85
Lakhs**

Amount of fine imposed

545

No. of open burning incidents
addressed

611

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.



36 Enforcement

Electric heaters provided by RWA 's

For Period- 07.10.2023 to 29.12.2023

(Source report is compiled on basis of the reports received from 11 Revenue districts)

No. of RWA contacted

1290

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

749



37

Action Plan FY : 23-24

Stubble burning control**TARGET :**

Bio decomposer Spray – In 2023-24, GNCTD is targeting 4350 Acres of non-basmati paddy area for spraying of Bio decomposers in agricultural fields of Delhi

Based on Efficacy report from WAPCOS,
Organic carbon increased by 5.36 to 42.11% and available nitrogen increased by 2.70 to 24.21 % by spraying of PUSA Bio-decomposer.

Implementation of CSS Scheme – Promotion of Agricultural Mechanization: 50% subsidy on machinery (Super SMS, Happy feeder, Shrub Master, Zero till drill, Super seeder, bailers) – Target subsidy Rs. 67 Lakh (2023-24).

165 application forms for availing 50% subsidy on purchase of Agriculture implements and machinery have been received.

ACHIEVEMENT :

So far 4189 acres of fields have been sprayed since 28.10.2023 in the fields at North, North-West, West, Central and South-west districts

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

38 Burning Along Railway Tracks

- Survey to be done by MCD
- Clearing of wastes along tracks in railway land by Railways and by MCD beyond
- MCD had convened a meeting with Indian Railway officials regarding Collection/ transportation /processing of MSW from the sides of railway tracks.
- 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.)

164 Vulnerable spots

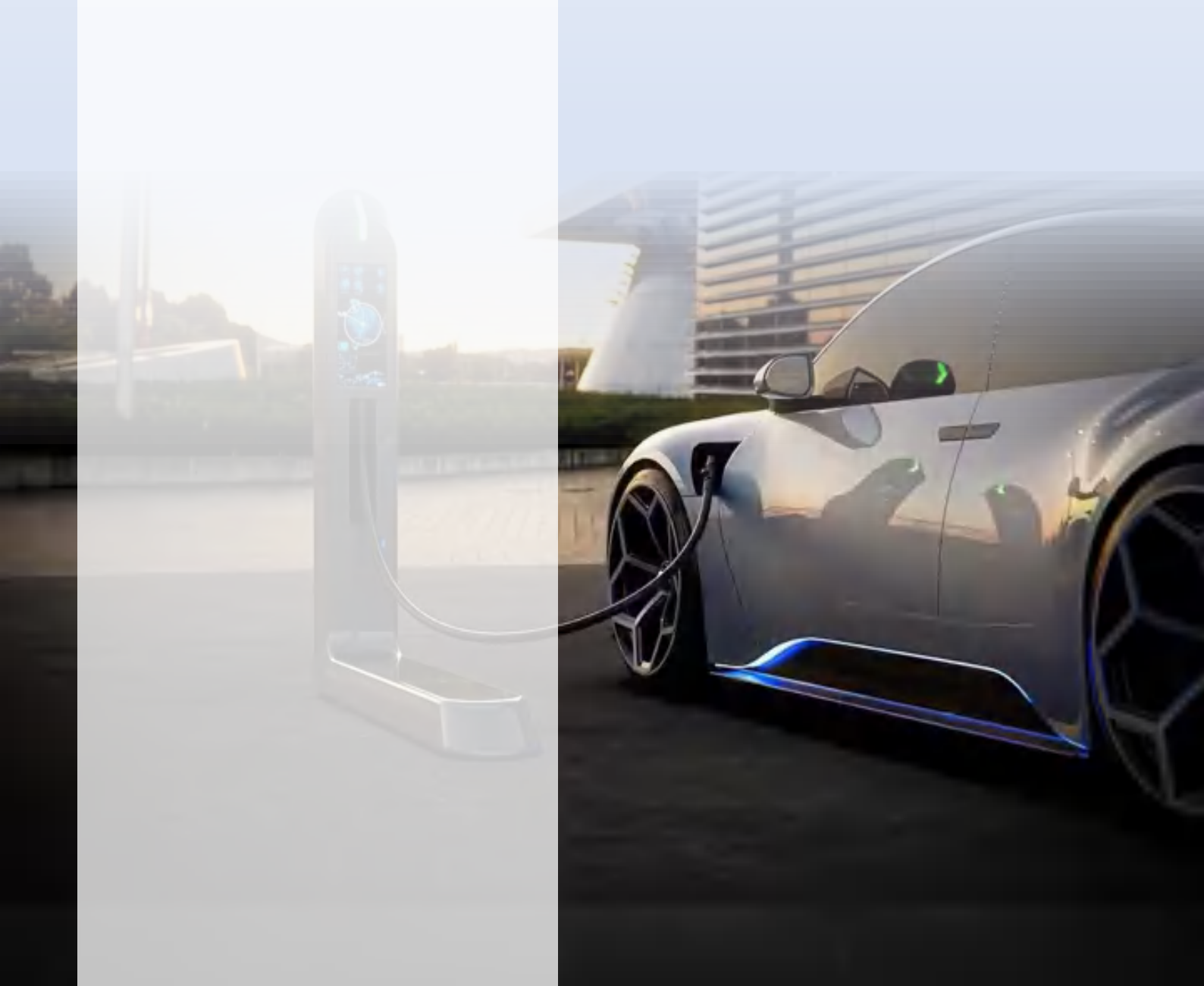
Identified for industrial waste dumping in industrial areas.

Physical verification completed. .



05

Electric/ EV mobility



39

Electric/ EV mobility

Strategies

01

Increasing adoption

03

Electrification of Depots

02

Augmentation of infrastructure [EV Charging Stations/ battery swapping]

04

Mandating procurement of EVs



40 Electric/ EV mobility Increasing Adoption



Till 31st Dec, 2023



11 %

New Vehicle EV registrations is 11% of total new registration (Jan-Dec, 2023)

Augmentation of infrastructure [EV Charging Stations/ battery swapping]



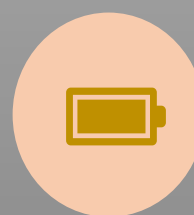
3100

**Charging Stations
In place**



4793

**Charging Points
In place**



318

**Swapping Stations
In place**

Targets by 2025

18,000 (Public)
30,000 (Private/Semi Public)

41

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



42 Electric/ EV mobility

Electrification of Depots

- Out of 60 bus depots, 15 are electrified ,out of which 6 are operational. Remaining depots shall be electrified by 2024-25
- Plan to electrify balance depots by FY 2022-23 to achieve 8000 buses out of target fleet of 11,000 Buses



06

Vehicular Pollution Control



43 Vehicular Pollution Control

Strategies

01

Phasing out old vehicles

03

Action against non- destined trucks

02

Enforcement of PUC norms

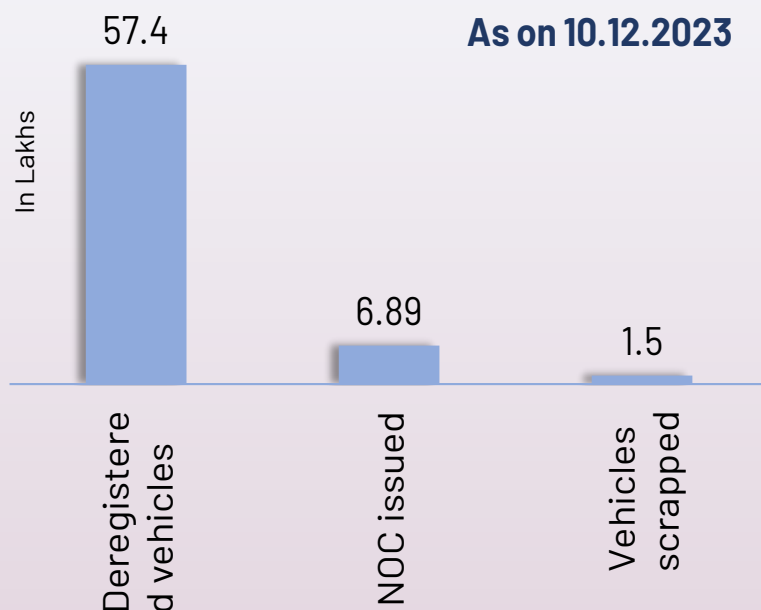
04

Smooth road traffic management



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

Phasing out old vehicles [Total live vehicles = 80.89 Lakhs]



950

Personnels

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.

57.40 lakh vehicles (10-15yr old) have been de-registered (till 26.06.2023)

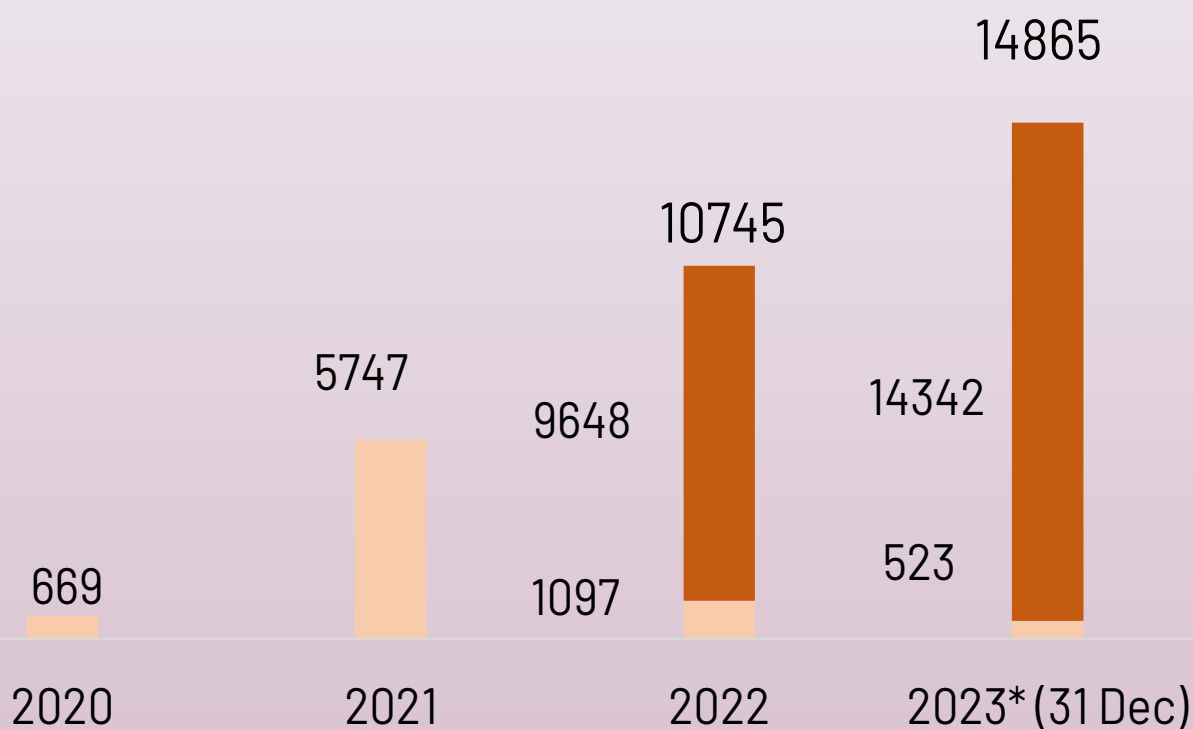
20445

Vehicles impounded and sent for scrapping (Oct, 2022 to Nov, 2023)



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

Vehicles impounded



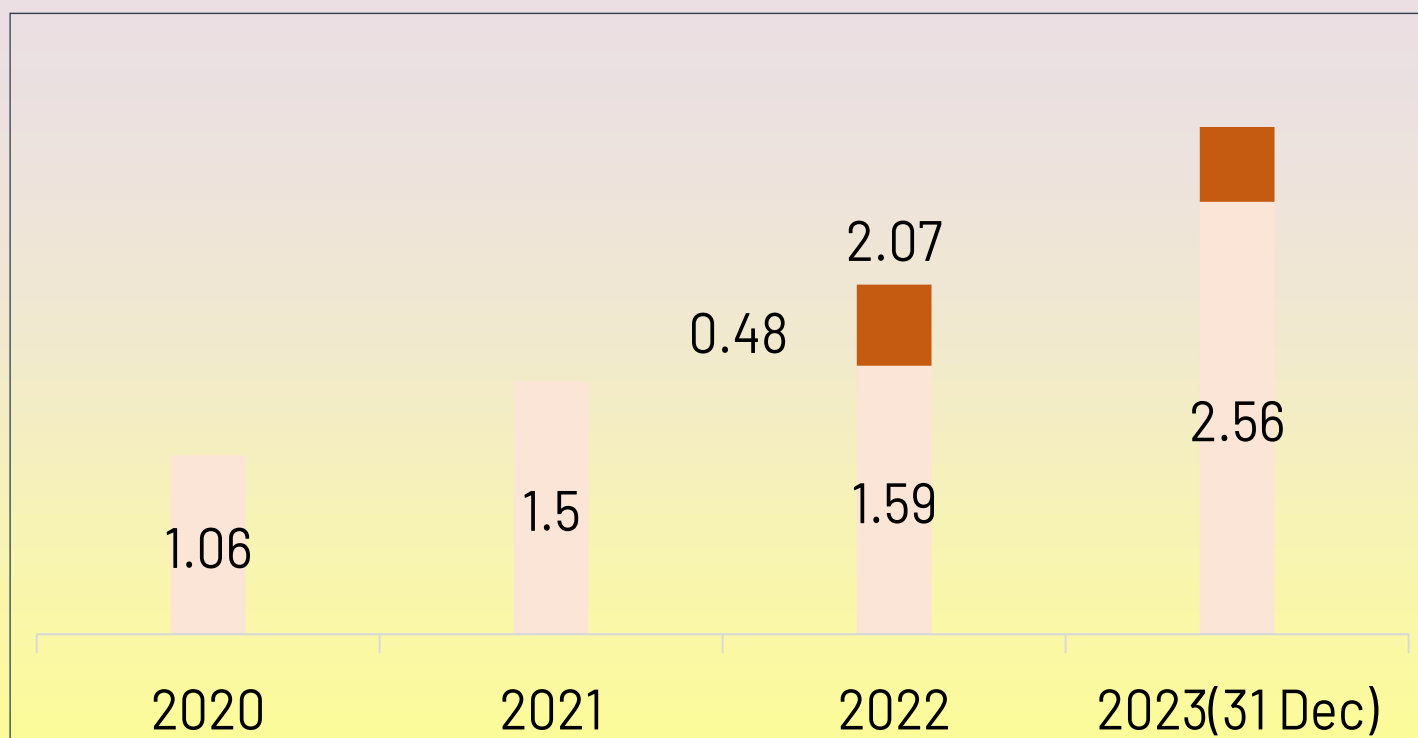
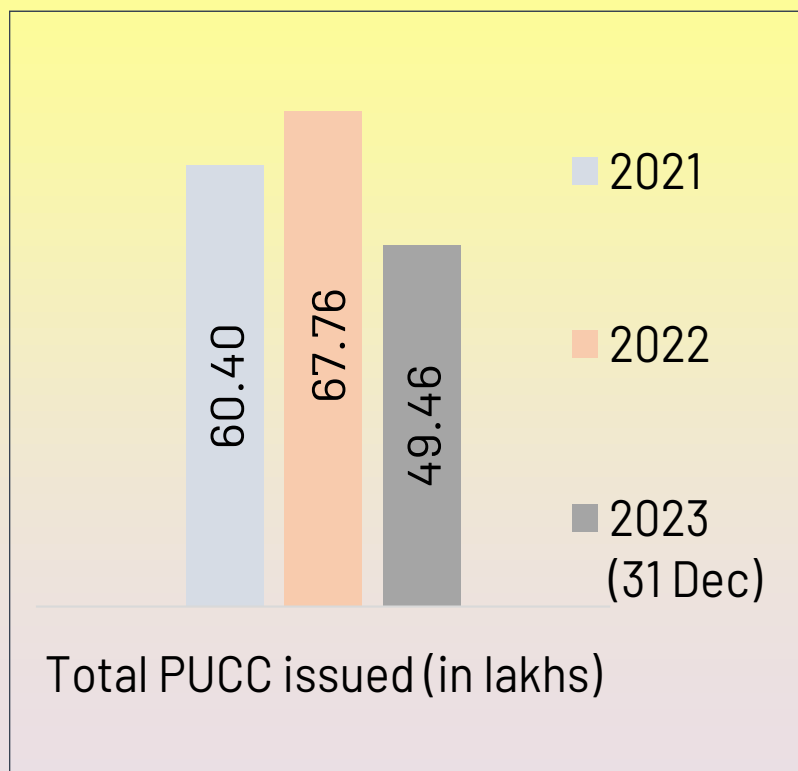
■ Transport Department ■ Traffic Department

46 Enforcement of PUC regime

943 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.

47 Smooth Road Traffic Management

Inter-departmental Task Force : headed by Transport Commissioner.



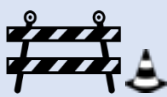
Lane Driving

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 for ITMS Project.

- CDAC appointed consultant on 10.05.2022
- DPR submitted by Consultant on 24.12.2022
- C-DAC submitted revised version on 18.04.2023
- C-DAC submitted RFP
- Matter is under submission for obtaining administrative approval of competent authority for acceptance of DPR and RFP



48 Smooth Road Traffic Management

Identification and removal of congestion points

1500 +

Officials deployed on daily basis for smooth traffic management

90

Road Stretches
Identified road stretches with maximum congestion (Transport)

Action against unauthorized parking (Oct, 23 to Dec 2023)

1,73,000 +

Challans issued

1.97 Lakhs

Notices issued

Multilevel Car Parking

22 Available

Multilevel parking near metro stations and at heavily congested sites.

9 Proposed

Timeline: Dec, 2023

Ensuring 100 % utilization is crucial

07

Augmentation of public transport



49 Augmentation of Public Transport

Strategies

01

Induction of new fleet

03

Ease of using public transport: Common Mobility App

02

Last mile connectivity to DMRC network



50 Fleet Induction By 2025



- ❑ 7050 buses (DTC- 4209 and Cluster- 2841) in place including 1180 E-Bus.
- ❑ Target to augment total fleet of 10,925 buses including approx. 8000 E buses.
- ❑ 1500 buses timeline: 602 buses are in operation / 898 buses are expected by March 2024.

51

Last Mile Connectivity To DMRC Network

E-Bus

- 100 E-bus Targeted
- 100 Operational
- All 100 e-buses handed over to Tpt. Dept./ GNCTD w.e.f. 01.04.2023.

E-Auto

- DMRC is in process to deploy 1299 e-autos in Delhi.
- 348 e- autos in Dwarka region (M/s SUN Mobility) and 36e- autos (women driver) in Azadpur region and 45 e-autos in Kalkaji region (M/s ETO Motors) have been made operational. DMRC has requested another 1000 e-autos permit from GNCTD.
- Overall 426+ E-autos facilitated around 7381 passengers daily

E-Rickshaw

- Fleet of 44
- Serving 1232 passengers daily.
- Connectivity: 2 metro stations.

E-Cycles

- Micro Mobility Vehicles (MMVs) through a mobile app.
- 988: E-cycles Operational across 46 metro stations.

WALK CYCLE IPT

BUS



BUS

IPT

CYCLE WALK



HOME

METRO

OFFICE

52 One Delhi App Common Mobility App



**Live Tracking
of Buses**



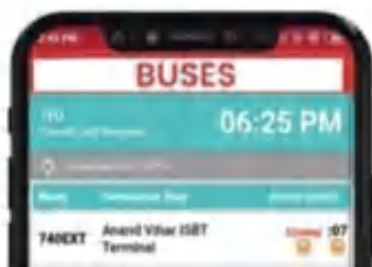
**Buy Online
Bus Ticket/ Pass**



**Find Electric vehicle
charging stations**



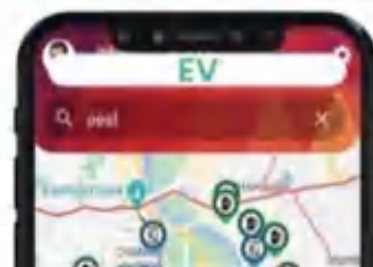
बसों की लाइव ट्रेक करें



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

311 App-MCD

Green Delhi App- Env.



53 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 15th Jan,2024

Agency	Total Issues	Total Pending	Short-term	Long-term	Total Resolved	Pendency %
MCD	89969	5956	3945	2011	84013	7%
PWD	43401	4293	2696	1597	39108	10%
DJB	10826	3854	2125	1729	6972	36%
DDA	10701	5831	5198	633	4870	54%
I & FC	10573	4504	1480	3024	6069	43%
DSIIDC	3941	2043	809	1234	1898	52%
DMRC	2083	114	104	10	1969	5%
NDMC	11280	4	3	1	11276	<1%
Others	3013	1871	1698	173	1142	62%
Grand Total	185787	28470	18058	10412	157317	15%

54 DPCC/Environment Department Green Delhi App

An innovative platform for submission of pollution related grievances, launched in Oct, 2020 and relaunched in Oct, 2023.

User friendly mobile based app for citizens and agencies.

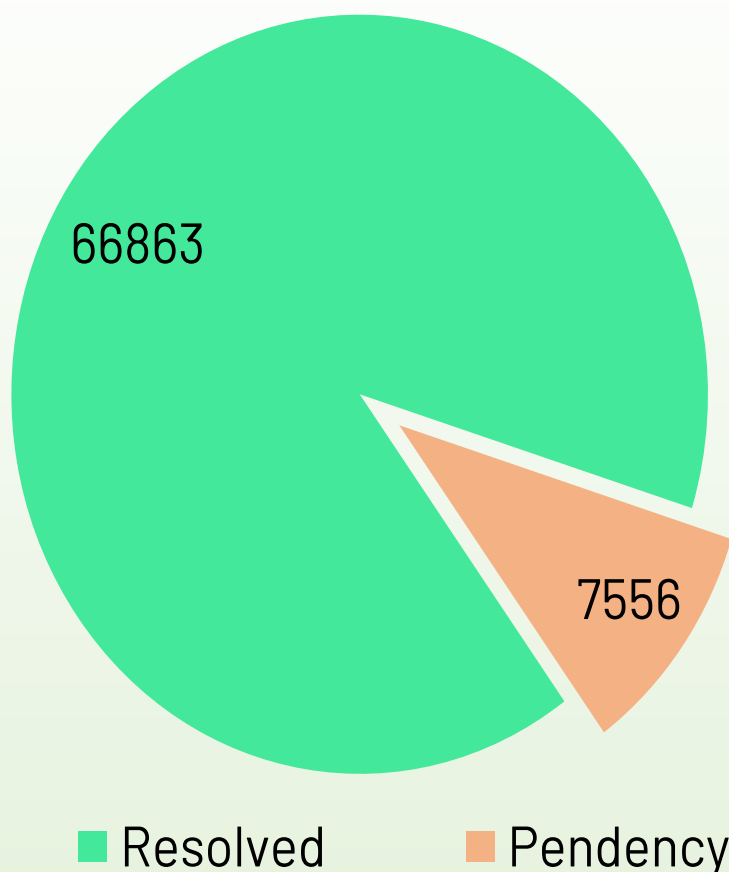
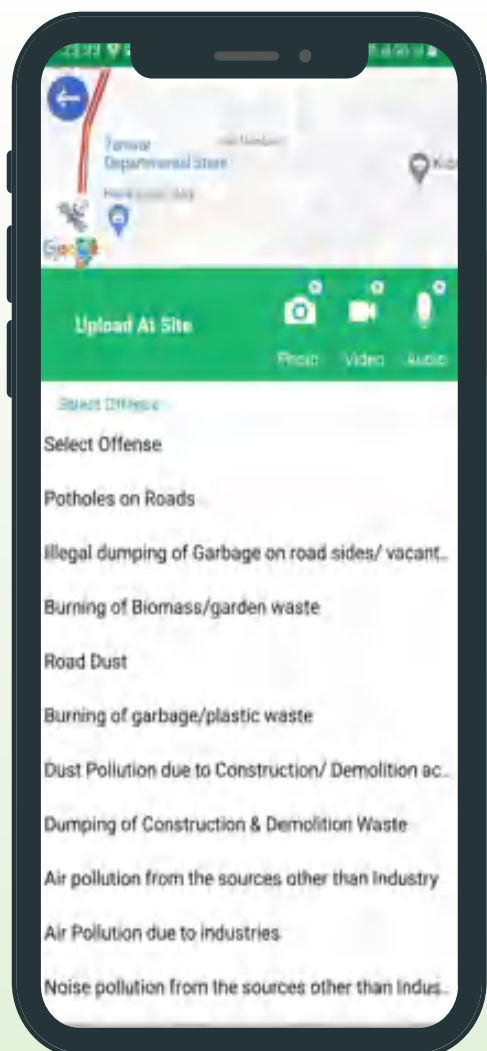
24 x 7 Green War Room established for inter departmental coordination.

74000

Total grievances received since Oct, 2020

89.85 %

Resolution Percentage

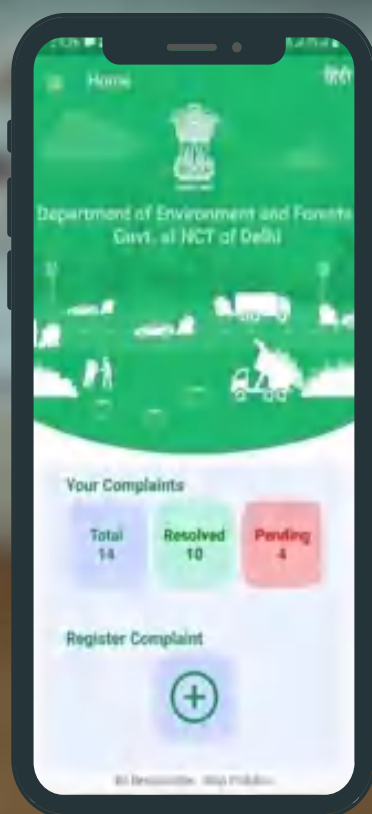
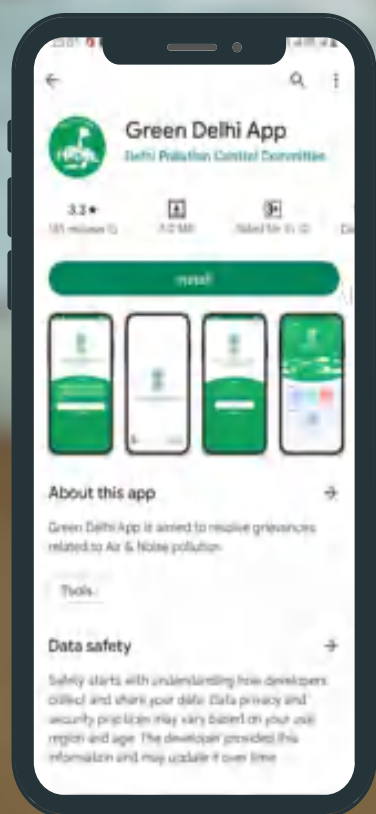


55

DPCC/Environment Department Green Delhi App

Green Delhi App - Department Wise Complaints Report As on 01.01.2024 10 AM

S No	Department	Total	Pending	Pending %	Overdue
1	Municipal Corporation of Delhi (MCD)	47784	5437	11.38	5415
2	Public Works Department (PWD)	11147	648	8.5	945
3	Delhi Development Authority (DDA)	4470	325	7.27	324
4	Delhi State Industrial and Infrastructure Development Corporation (DSIIDC)	845	295	34.91	295
5	Irrigation & Flood Control (IFC)	1833	162	8.48	162



09

Greening and Plantation Program



56 Implementation of Greening Action Plan, 2023-24

Greening and Plantation Program

FY- 2023-24 Targets

Plantation target : 95.04 Lakhs
Free distribution target: 7 Lakhs

102.04 Lakhs

Total Target

79.76 Lakhs

78.16 %

Achievement till 30 Nov 2023

Plantation: 72.87 Lakhs (76.67%)

(Including Trees, Shrubs ,Bamboo/Hedge)

Free distribution- 6.89 Lakhs (98.40 %)



10

Abating pollution from DG sets



57

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 3022 DG sets as on 22.09.2023 are working in Delhi.

Enforcement data (since 01.10.2023 till 31.12.2023)

- No. of inspections conducted regarding unauthorized DG sets at construction sites: 3668
- No. of sites found using unauthorized DG Sets: 4
- Fine imposed: Rs. 30,000/-

58 Complete Ban on Firecrackers

Directions

Directions issued on 06.10.2023 as under:

"Complete ban" on all kinds of firecrackers on manufacturing, storage, selling (including delivery through online marketing platform) and bursting upto 01.01.2024 in the territory of Delhi.



Manufacturing



Storage



Sales
(including online)



Bursting

59 Complete Ban on Firecrackers

Action Taken

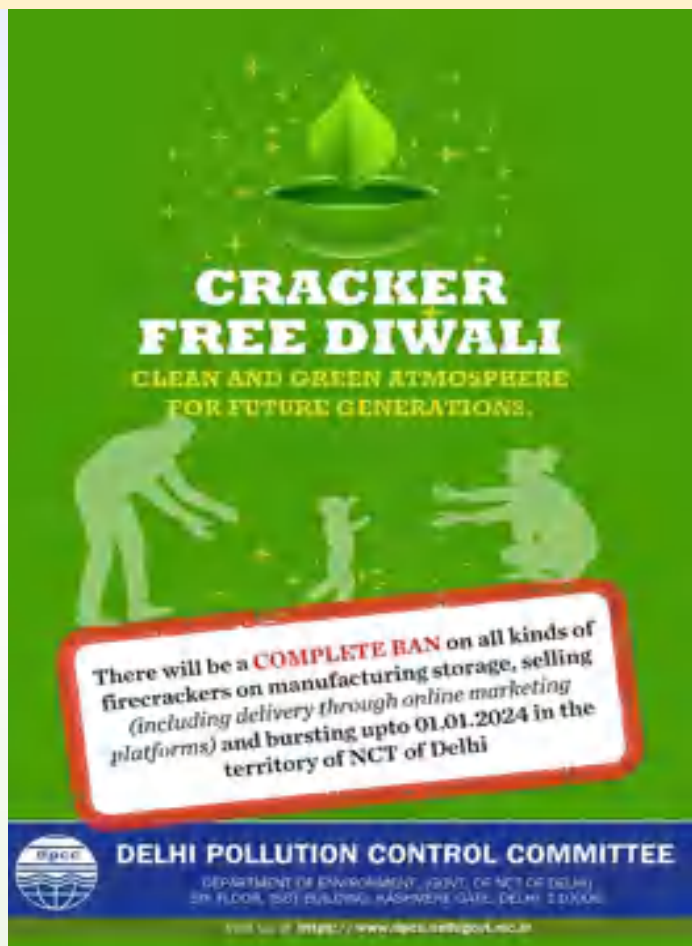
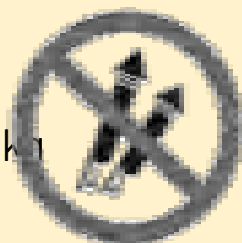
Enforcement data (Since 16.10.2023 till 22.11.2023):

No. of fire crackers sale violation observed / identified : 138

Quantity of fire crackers seized for storage/sale : 12,459.60 kg

Quantity of fire crackers seized for bursting : 11.400 kg

No of violation observed/identified for bursting firecrackers: 54



210 teams

of around 750 personnel on-ground to ensure that there is compliance on the ban.



Newspaper publicity: 7 -11 Nov

Run for pollution - on 20 Oct

Radio Jingles: 4-11 Nov

11

Other actions under GRAP Stage III and Stage IV

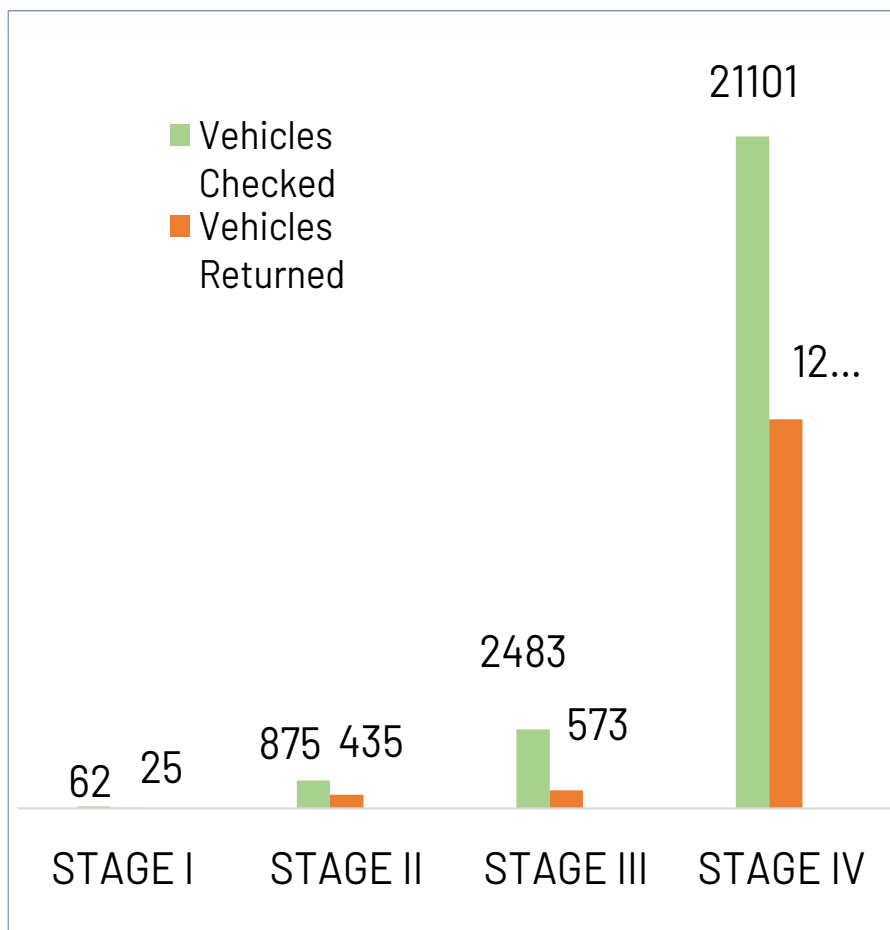
60 Action against Non- Destined trucks

W.e.f. 01.11.2023, 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

Total Non destined Goods vehicles checked:
24521

Total Non destined Goods vehicles returned:13257
during stage I , stage II ,stage III and Stage IV of
GRAP



**Period : Oct, 23
to 31 Dec, 2023**

27321

53.10%
Returned

1468
0

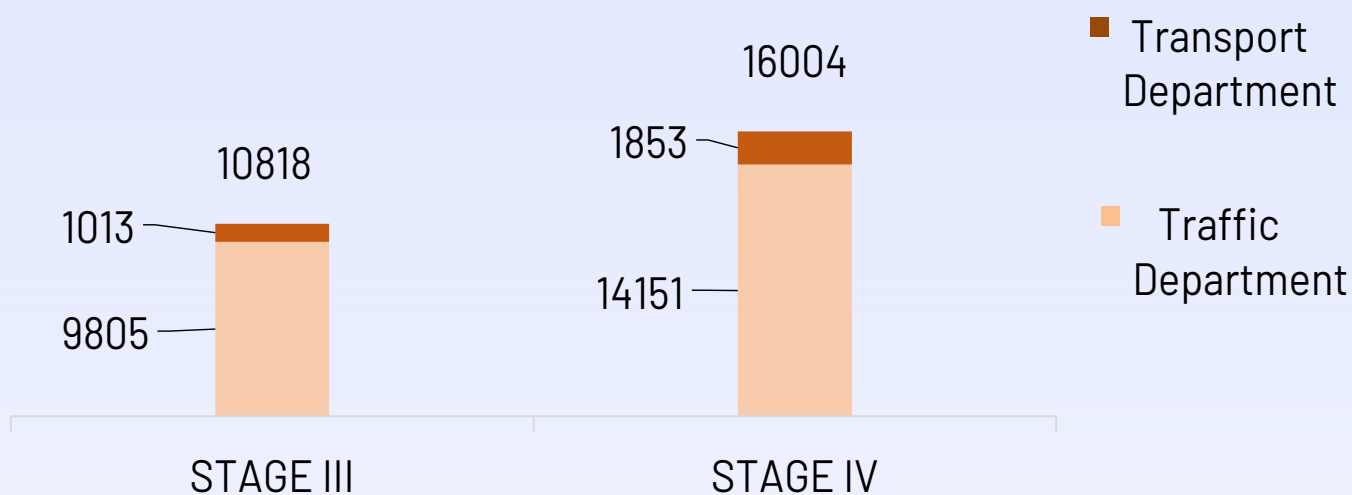
No. of goods
vehicles
checked for
non-
destined

No. of non
destined
goods
vehicles
returned

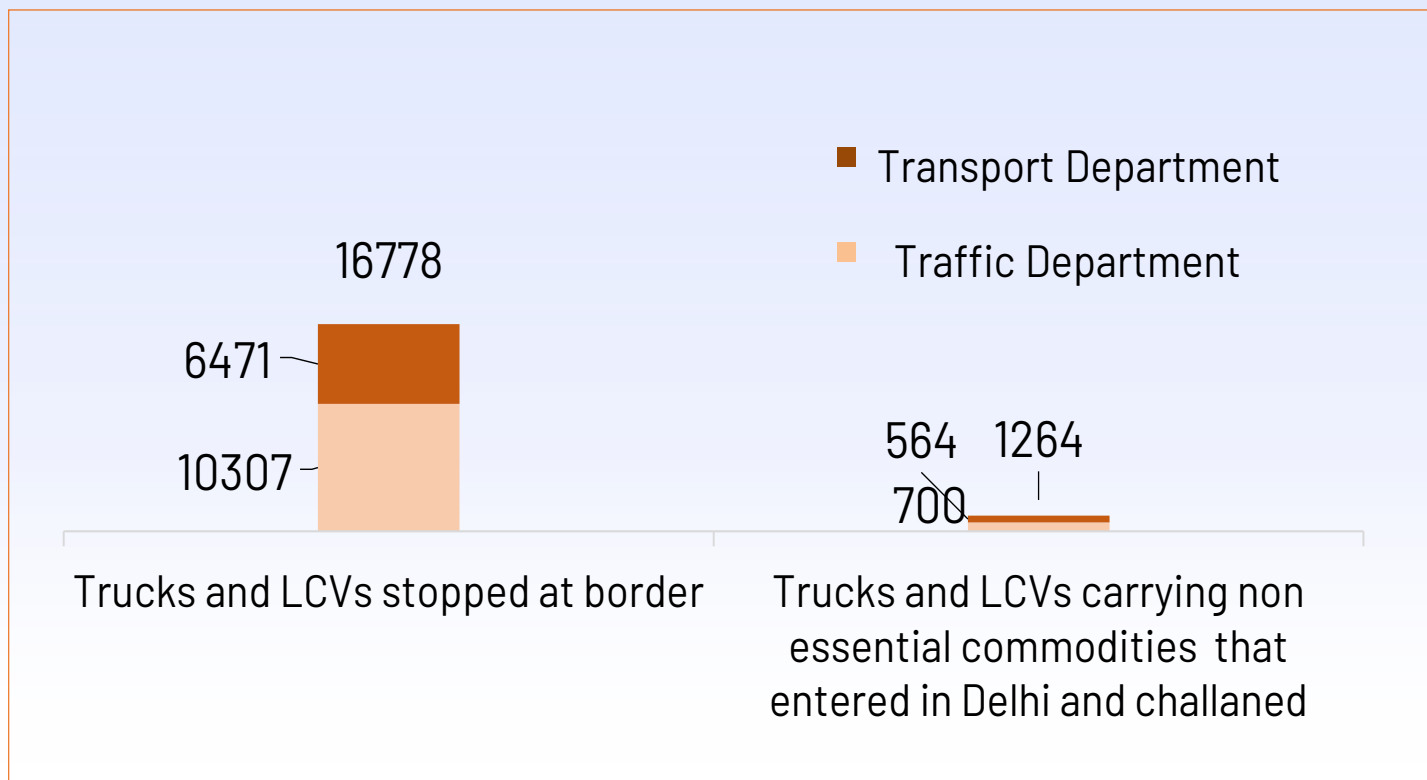
61

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

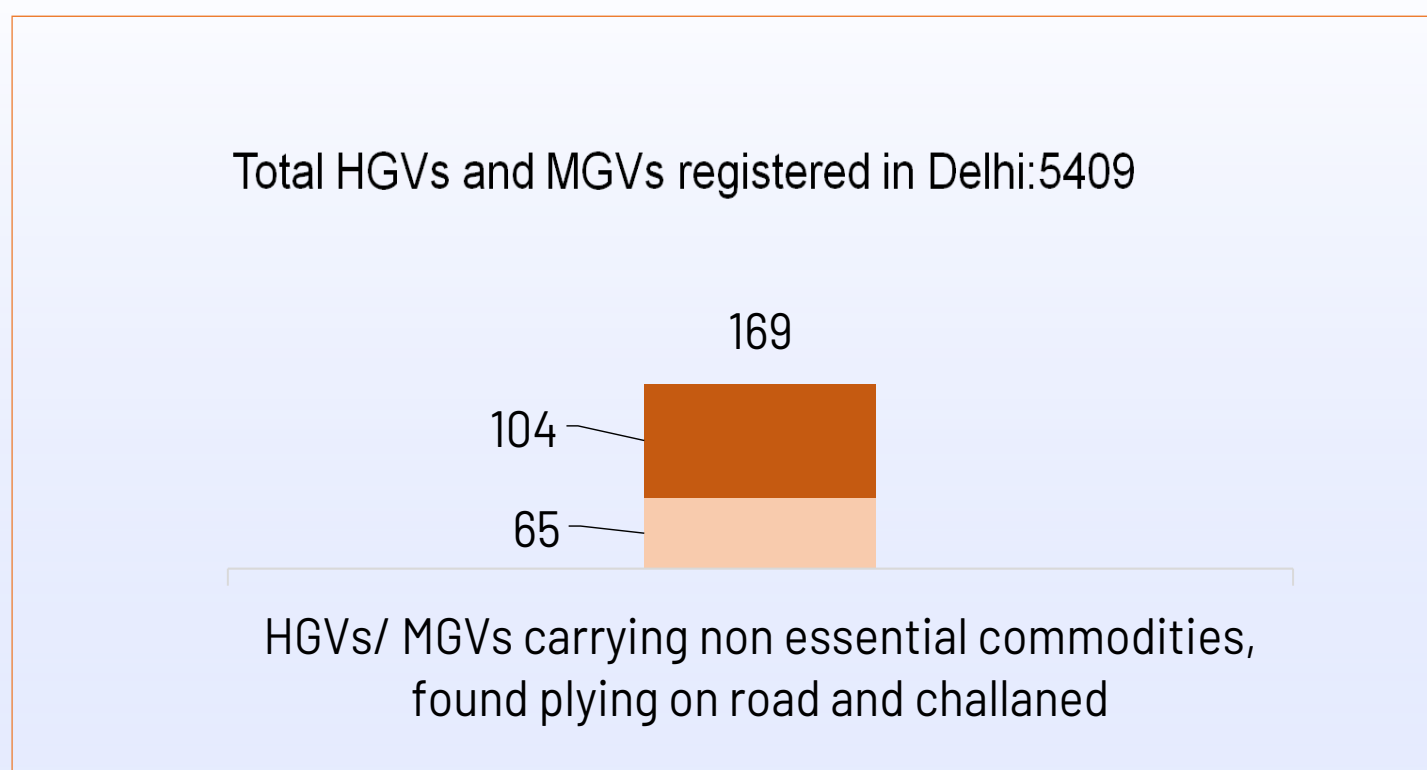
Challans issued for Ban on plying of BS III Petrol/ BS IV Diesel LMVs : 26822



62 Ban on plying of Trucks and LCVs (stage IV)



Ban on plying of HGVs /MGVs (stage IV)



63 Additional fleet and increasing frequency of service

Uninterrupted power supply

- **DMRC**

- DMRC is operating additional 40 trips (for all lines) on weekdays.
- Proposed to operate additional 20 trips as and when GRAP Stage-III & higher will be enforced i.e. 60 additional trips for all lines in weekdays.

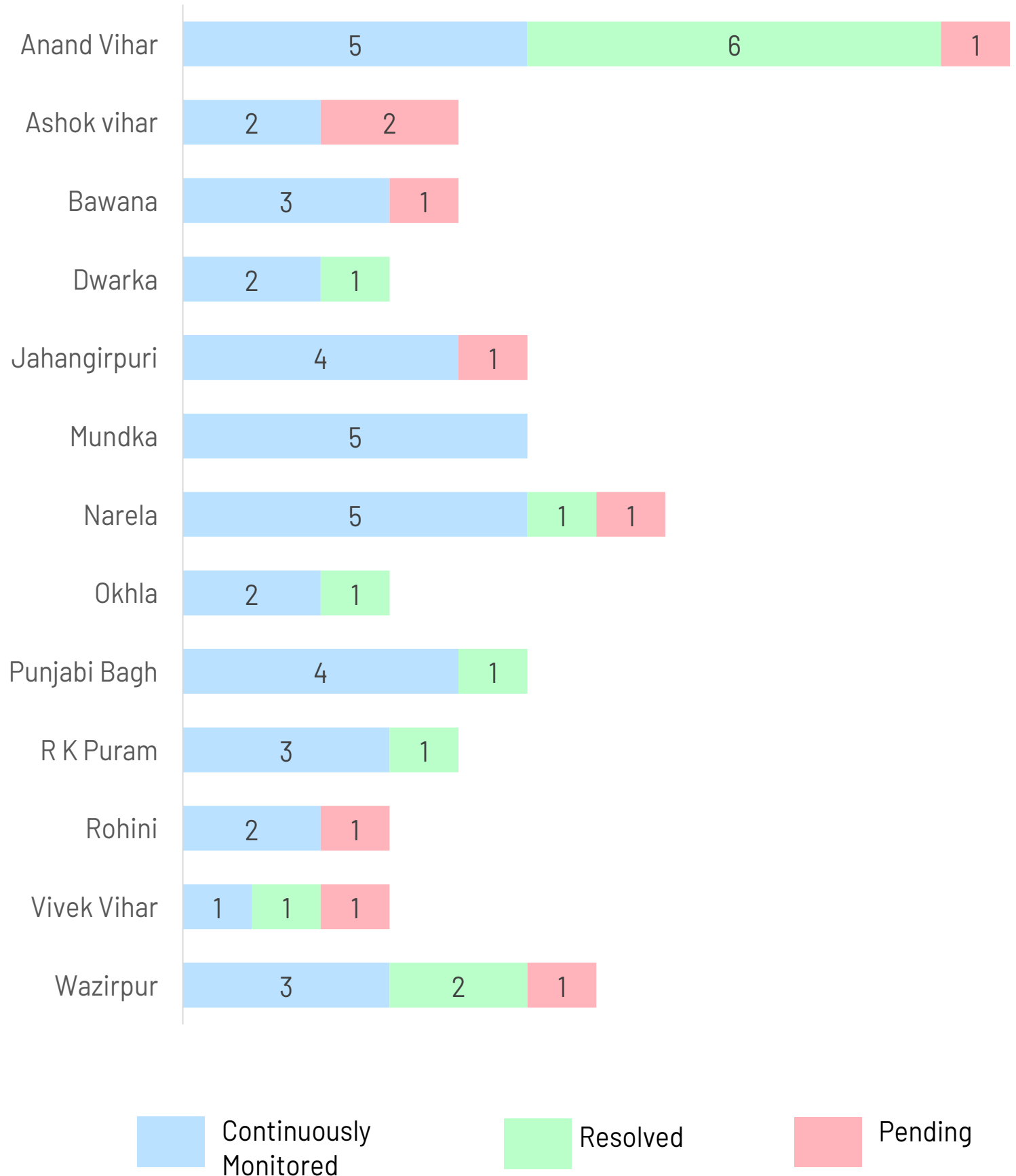
- **DTC**

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



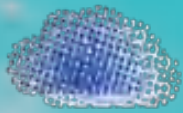
64

Redressal of pollution sources at hotspots (Hotspot action plan)





Department of
Environment, Govt. of NCT
of Delhi



International Day
of Clean Air
for blue skies

