



Department of Environment
Government of the National
Capital Territory of Delhi

Issues related to

Air Pollution

for effecting Inter Departmental Co-ordination

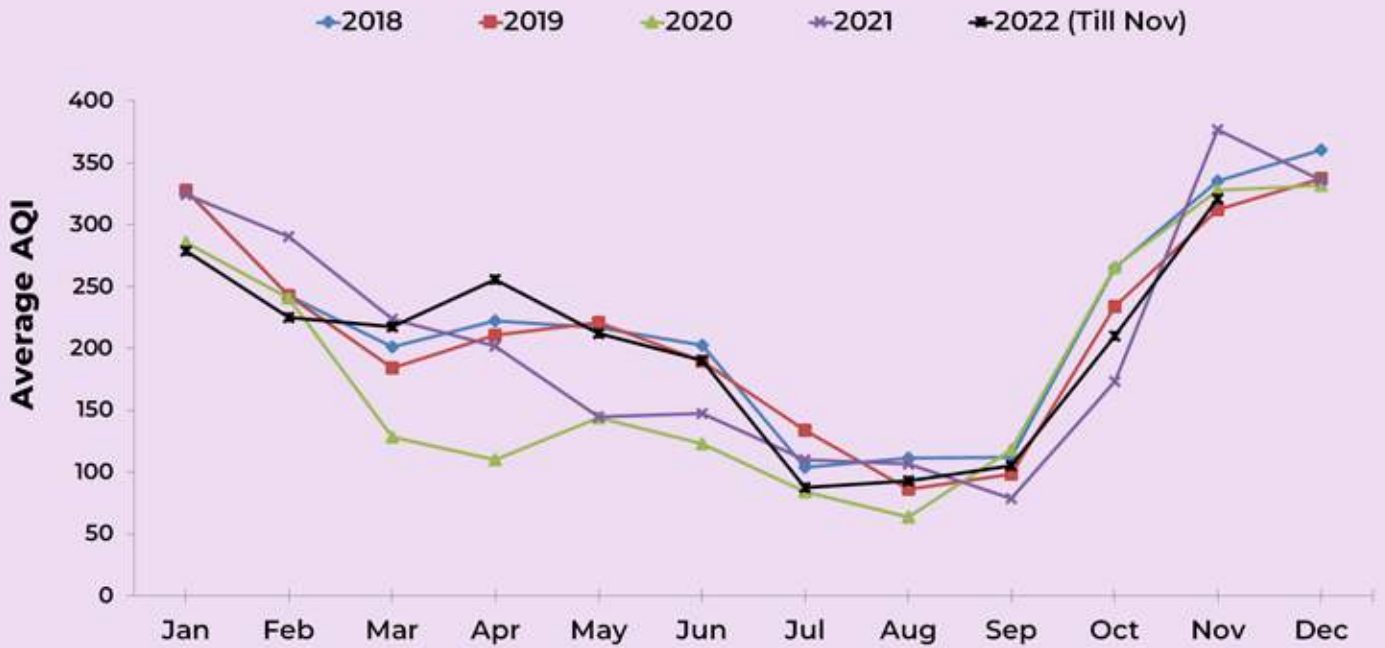


December 2022

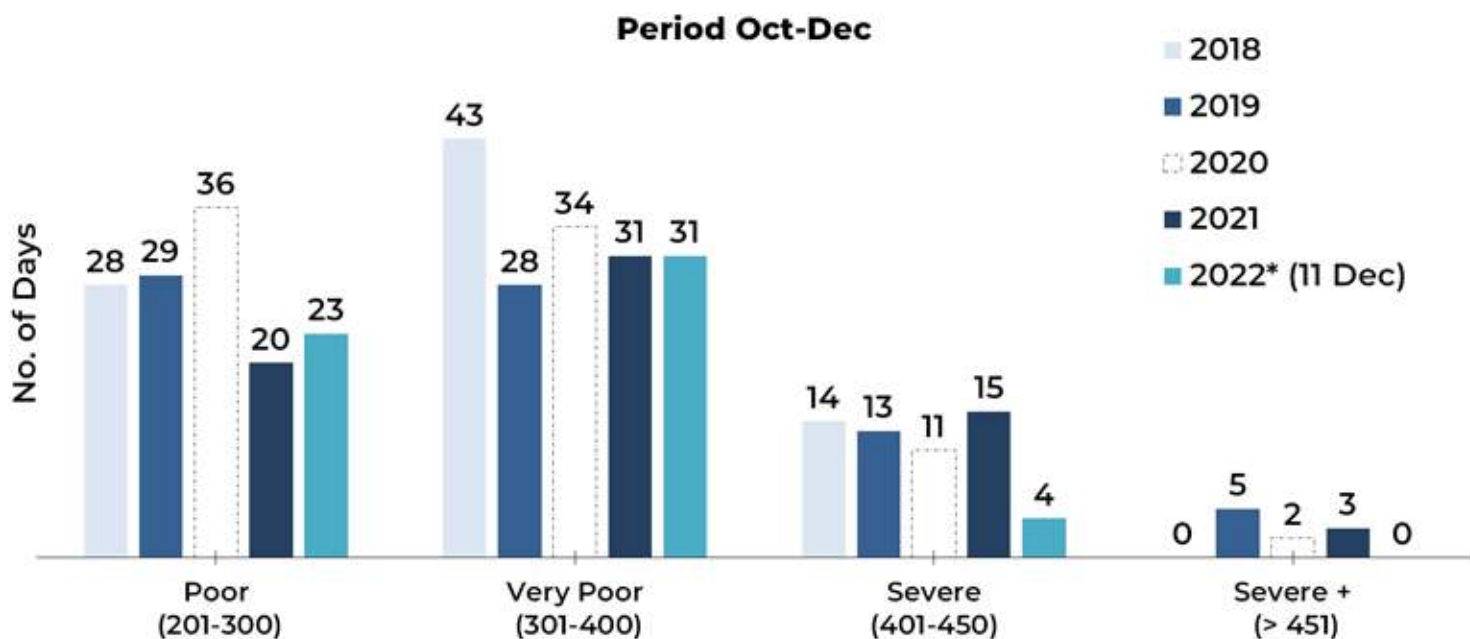
Air Quality in Delhi



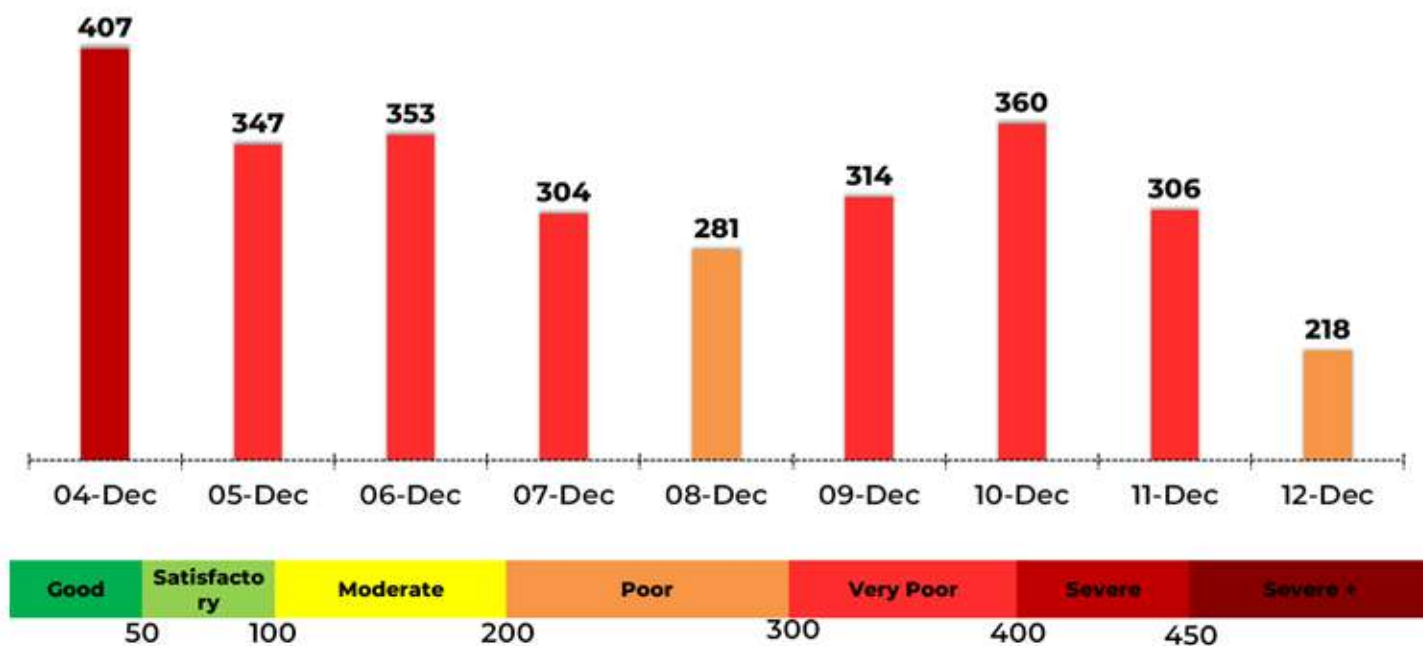
Month wise AQI status (2018-22)



2 Days according to Air Quality Index in Delhi (2018-22)*



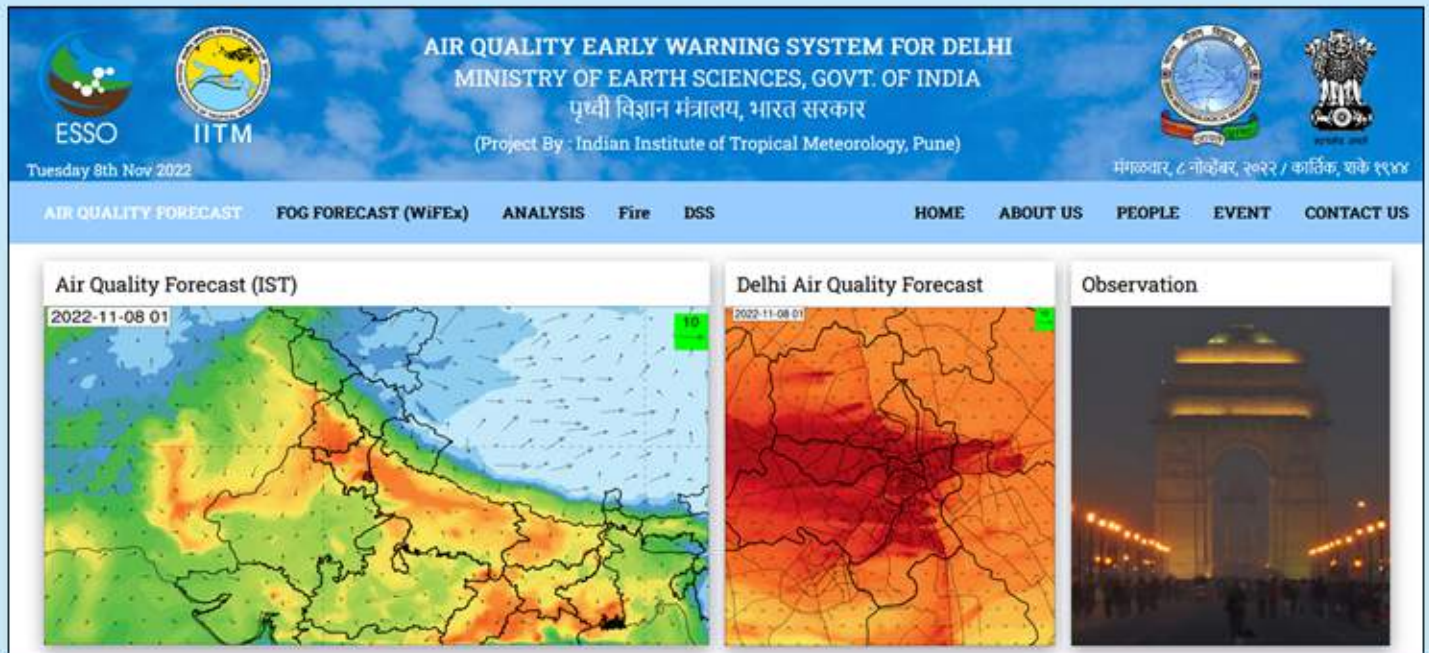
Air Quality during last 7 days



3 Air Quality Forecast

Air quality is likely to improve owing to relatively strong winds and better ventilation conditions and to remain in Poor category on 13.12.2022 and 14.12.2022.

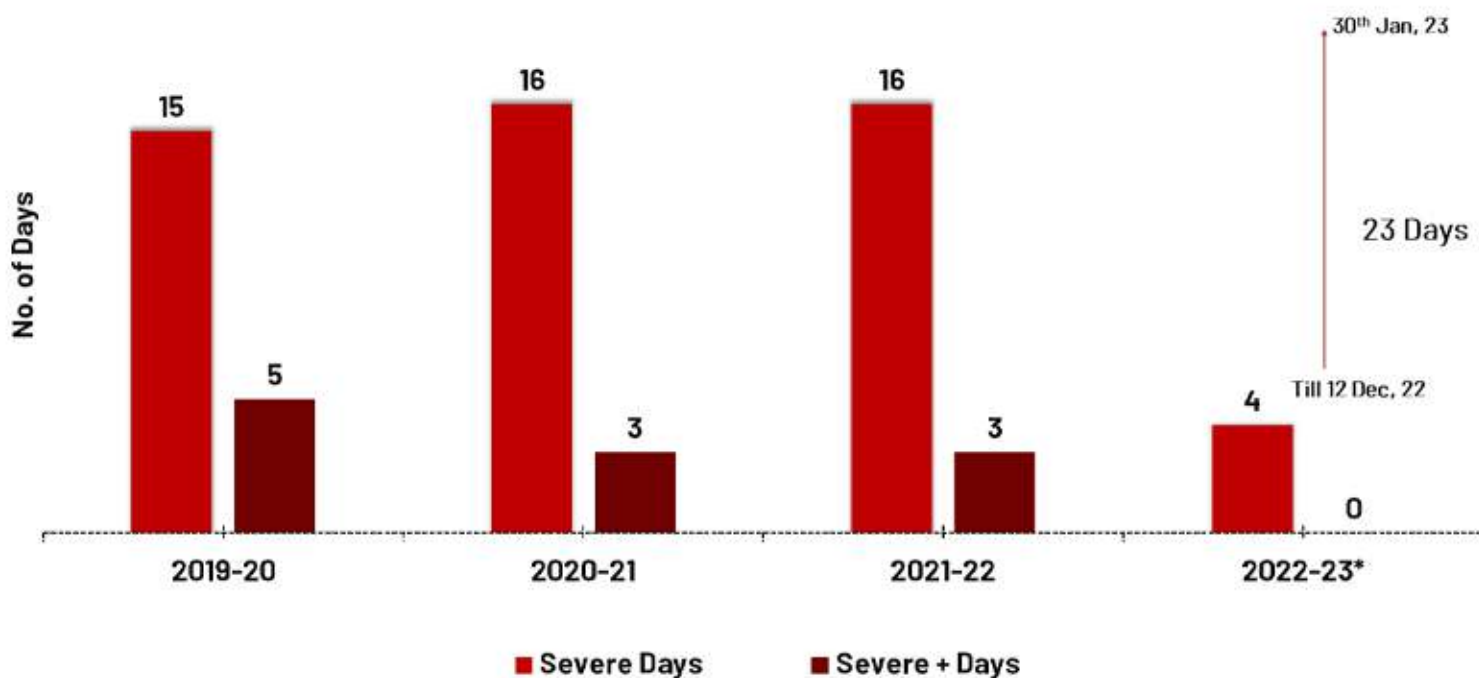
Outlook for subsequent 6 Days: Air quality is likely to remain in Poor to Very Poor category.



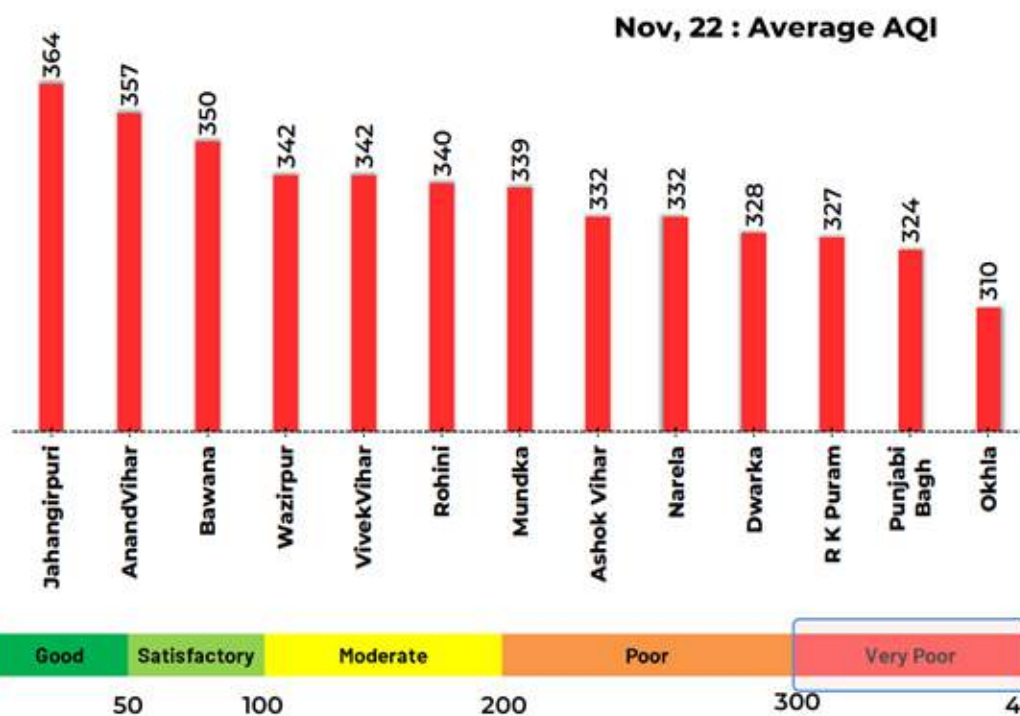
4

Severe and Severe +

Period : October to January (Winter season)



Top Hotspots in November 2022



CS, visited Anand Vihar on 26.10.2022

Inventorization of major air pollution sources completed by DPCC at all 13 Hotspots

5 Example of

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)

6 Improvement in Anand Vihar [Novembers of 2021 & 2022]



22%

Reduction in **PM2.5**
concentration



21%

Reduction in **PM10**
concentration

**November
2021-2022**

7 Inventorization of dispersed air pollution sources at Anand Vihar

Department of Environment, GNCTD inventorised and mapped around **470** 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.

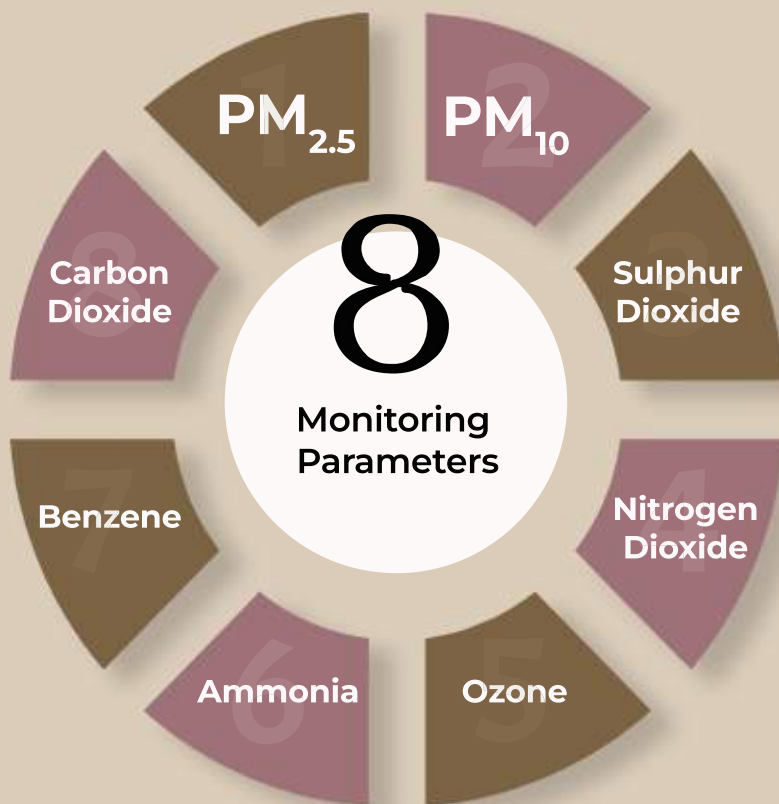


8 Strong monitoring system

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.

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].



9

Research Based Actions

Research Studies

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

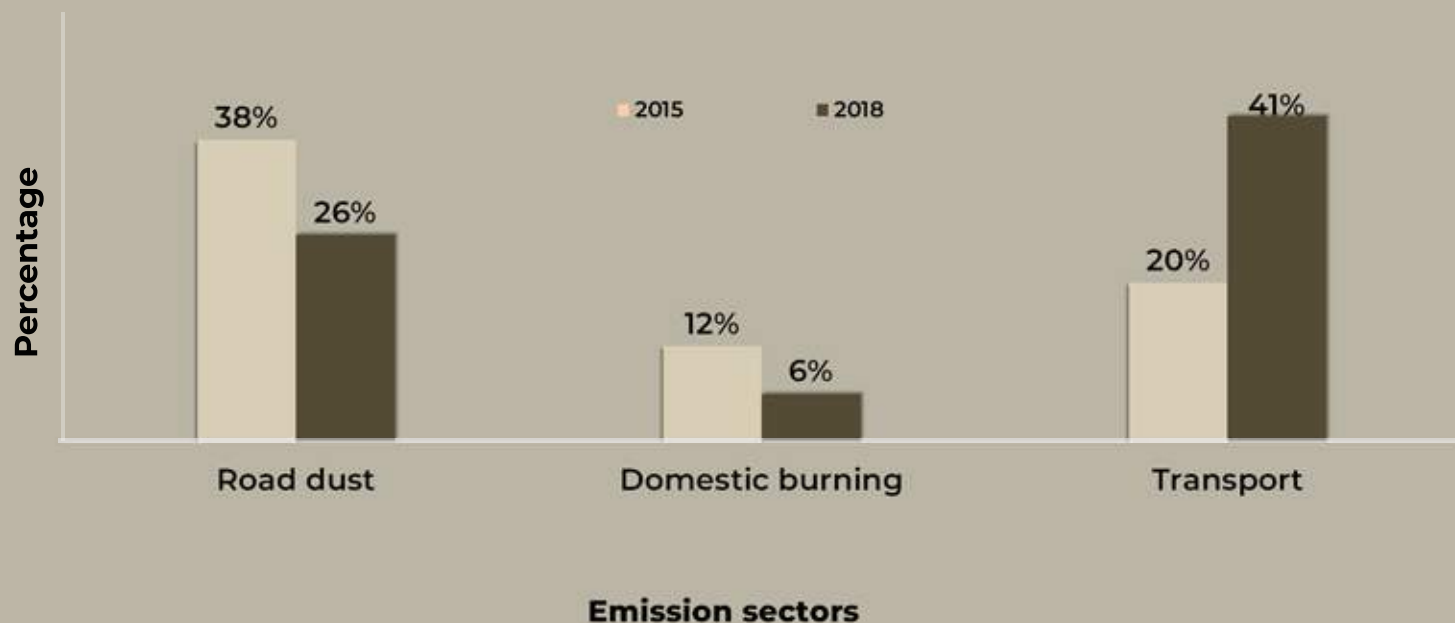
Source apportionment of ambient particulate matter during winter season in Delhi - IIT-Madras, 2018

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

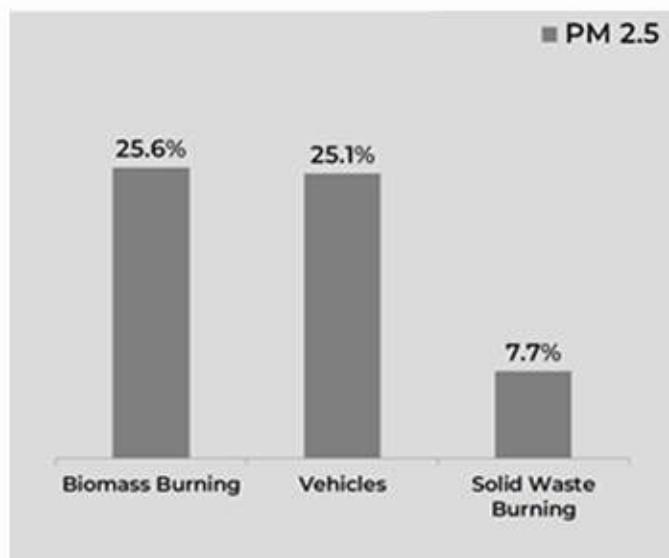
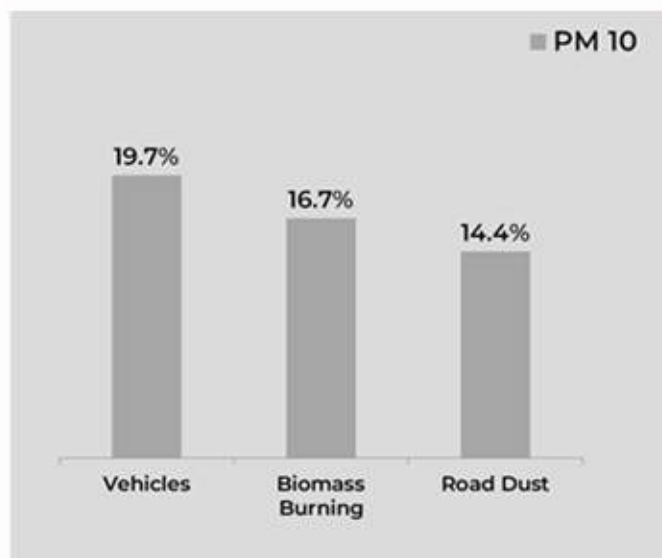
Variation in contribution of PM_{2.5} over the years



11

PM₁₀ and PM_{2.5} Percentage

contribution from top 3 Specific Sources (Winter months)



Source: IIT Kanpur Study

12 Strengthening scientific evidence based **Policy and Action (Real Time Source Apportionment)**

Real Time Source Apportionment by IIT Kanpur led Consortium



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 actionables

13

Implementation of

Graded Response Action Plan

Stage I

Poor

AQI between

201-300**Active**

Graded Response Action Plan (GRAP) invoked at least two-three days in advance based on the prediction of air quality forecasting models (invoked on 5th Oct, 22 onwards)

Stage II

Very Poor

AQI between

301-400**Active**

Stage III

Severe

AQI between

401-450**29 Oct – 14 Nov
4 – 7 Dec**

Stage IV

Severe +

AQI

> 450**3-6 Nov**

Outline

1

Dust management from construction & demolition activities

2

Mitigation of dust from road and open areas

3

Control of fires incidences in sanitary landfill sites

4

Prevention of open burning of MSW and biomass

5

Electric/EV mobility

6

Elimination of 10/15 Year Old Diesel/ Petrol vehicles

7

Enforcement of PUC regime

8

Augmentation of Public transport

9

Smooth road traffic management

10

Abating Air pollution from dispersed sources

11

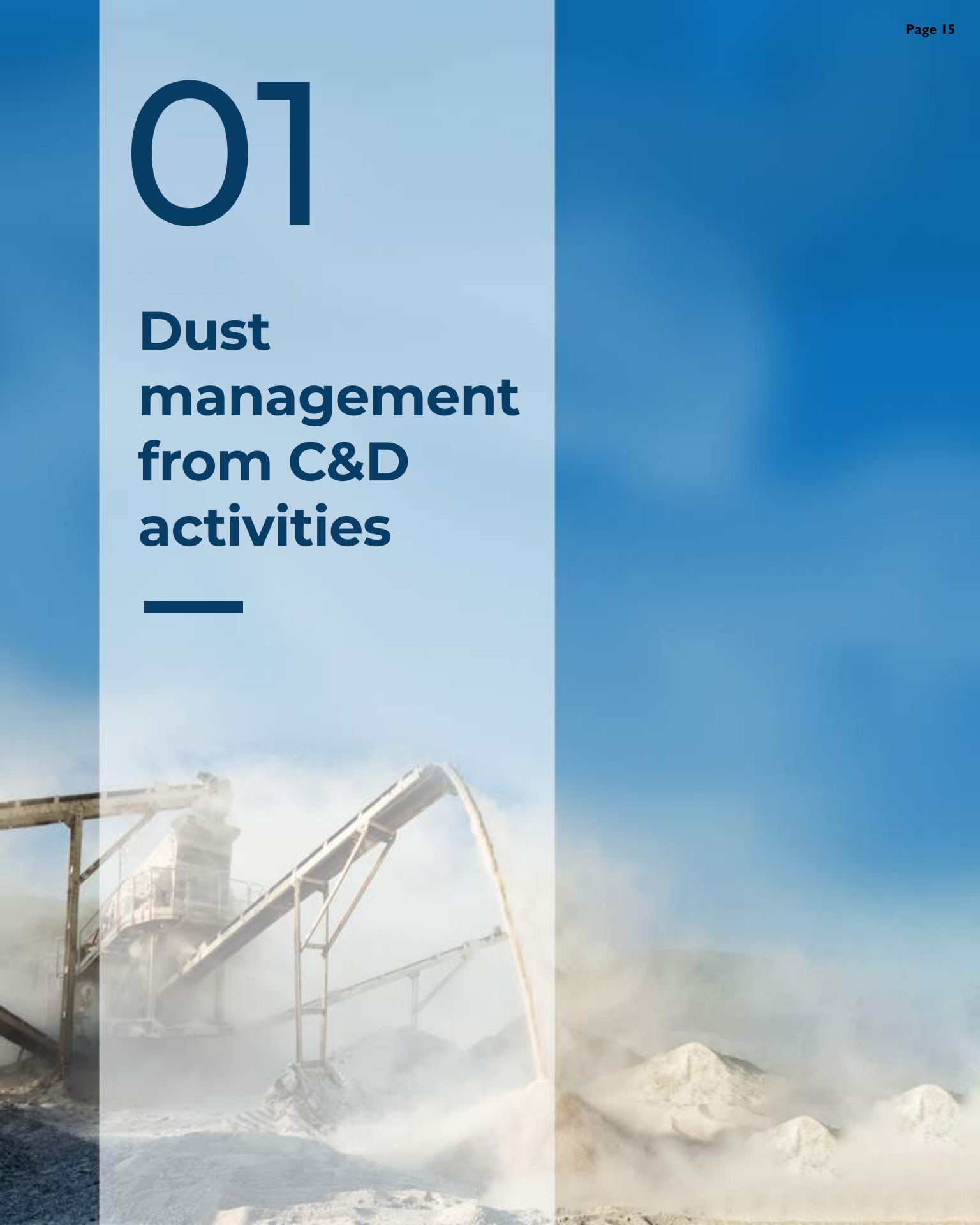
Greening and plantation programme

12

Abating pollution from DG sets

01

Dust management from C&D activities



14

Dust management from

Construction & Demolition activities

Strategies



Development of extensive C&D waste processing facilities

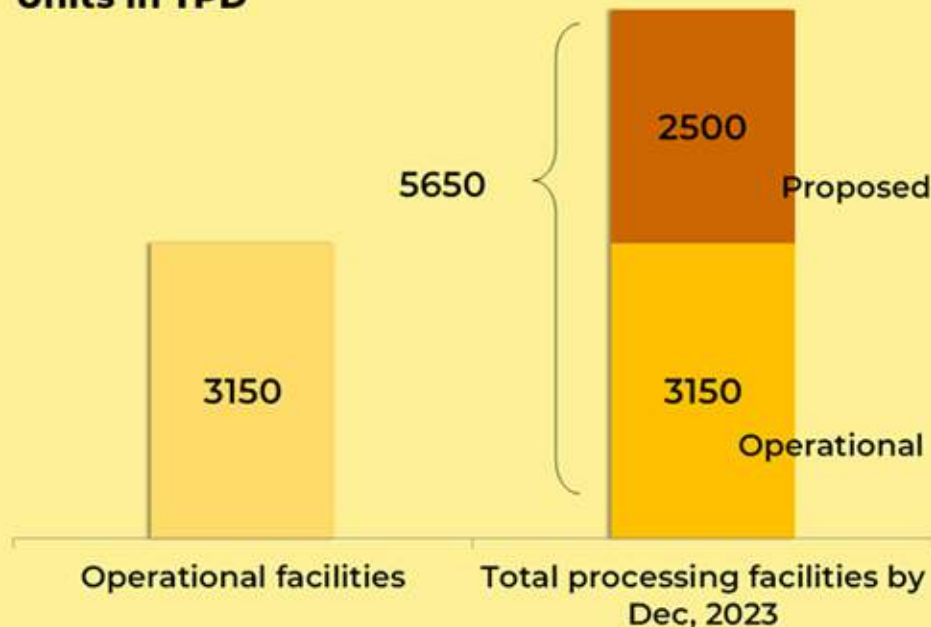
C&D waste generation approx. 6000 TPD in Delhi.

Four operational C&D waste processing facilities in Delhi with total capacity of 3150 TPD.

Facility at Jahangirpuri (Burari) (2000 TPD) under revamp and to be commissioned by Feb, 2023

More facilities proposed : 500 TPD (Dec, 2023)
Libaspur (500 TPD)

Units in TPD



15 Dust management from Construction & Demolition activities

CAQM's Standards/ Guidelines pertaining to mitigating C&D dust

Built up area	Atleast number 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

Dust mitigation measures for C&D activities 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).

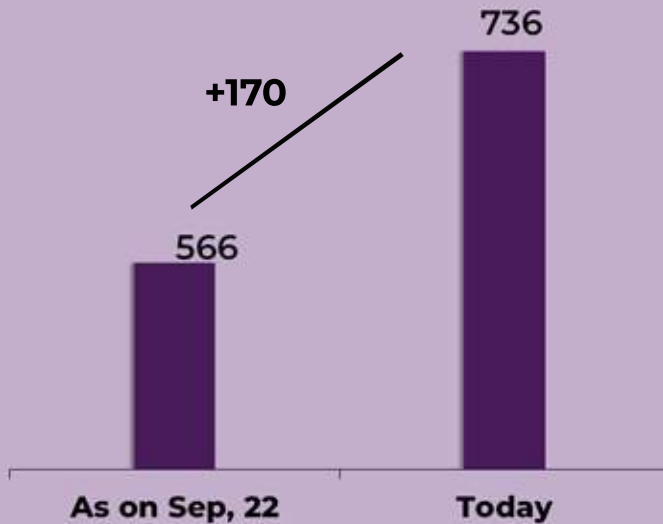
233

Deployment of 233 anti-smog gun at large construction sites



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

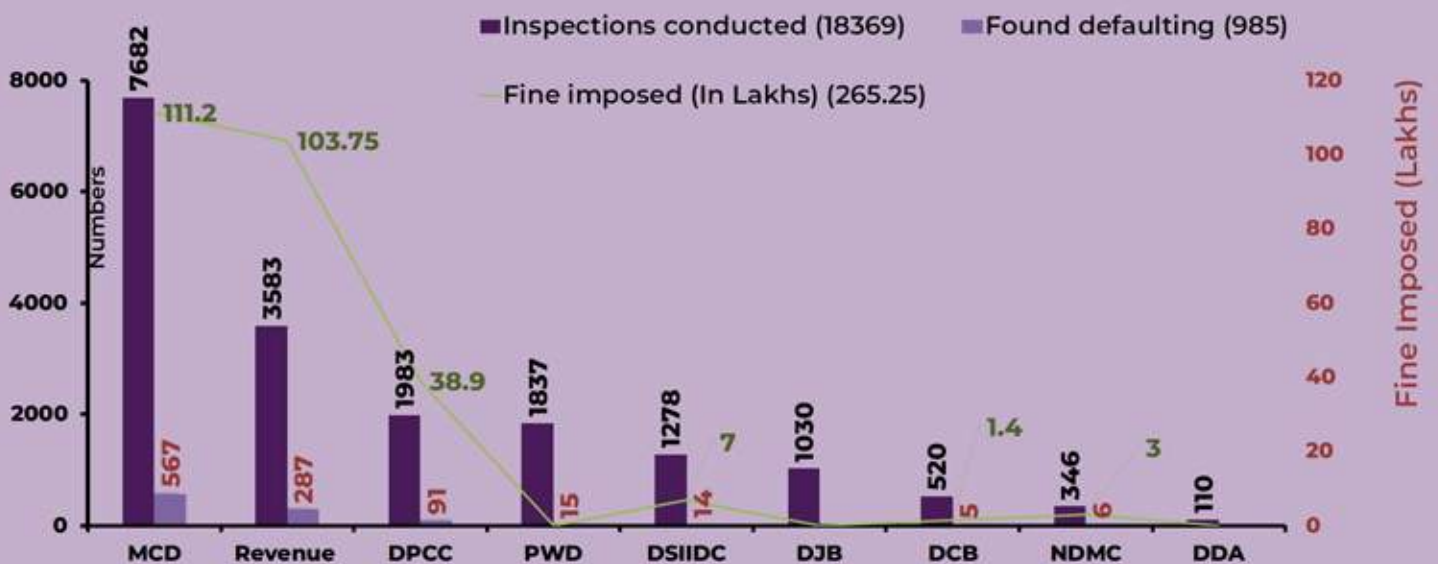
No. of active sites registered on portal



586

teams

of 1376 personnel for ensuring compliance of dust control norms at construction sites during winter, 22.

Enforcement : Oct & Nov, 2022

02

Mitigation of dust from road and open areas



Strategies

1

Institutionalized
monitoring of Road dust
management

2

Deployment of MRS
Machines

3

Deployment of
Water Sprinklers

4

Deployment of
Antismog Guns

5

ASGs on top of High
Rise Building

6

Augmentation of
MRS | WS | ASGs

7

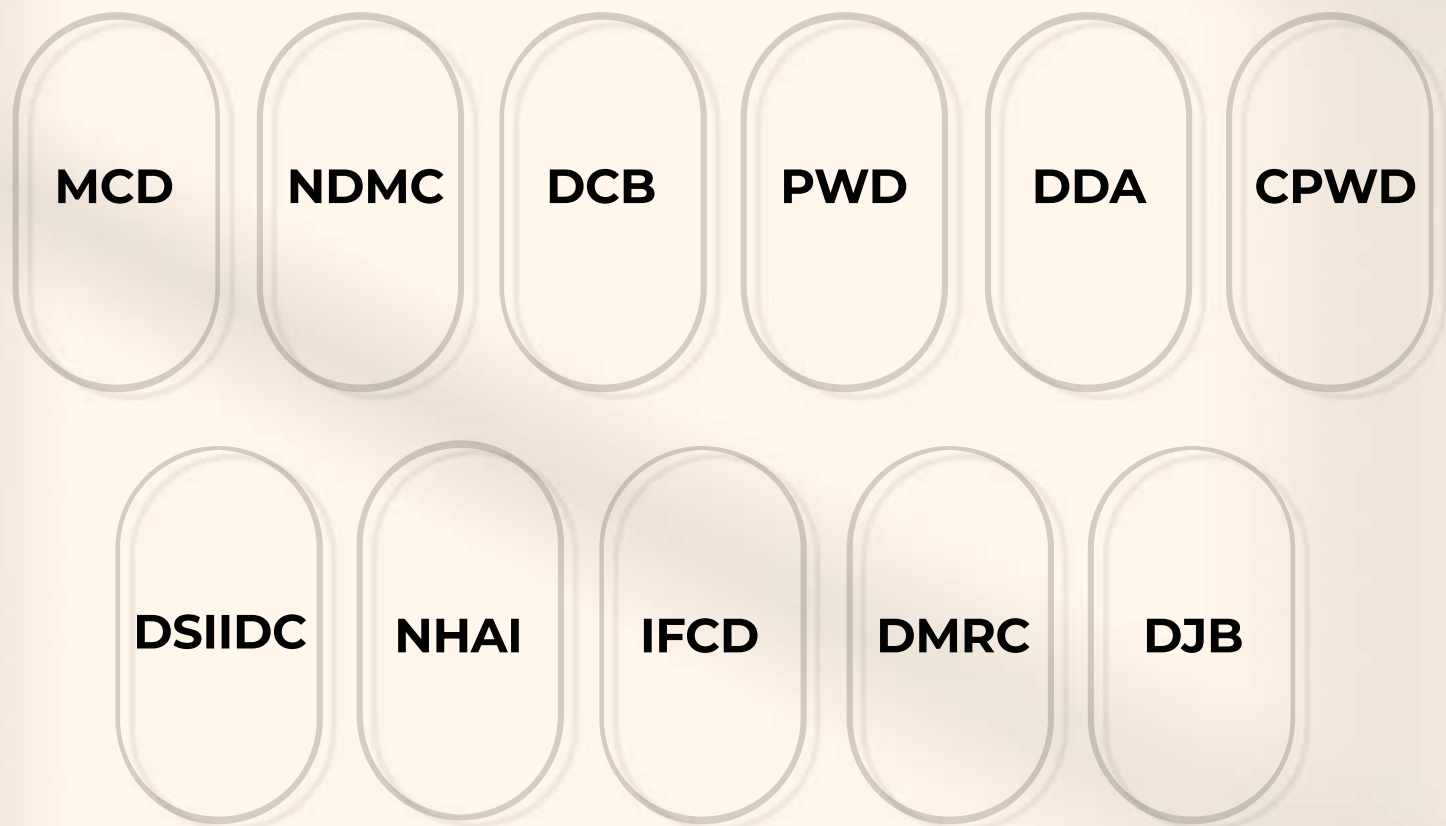
Greening of central
verges

8

Repair and
maintenance of road
patches/ potholes

Road and Open areas

Institutionalized monitoring of Road dust management



Road Owning Agencies

Dust Control and Management cells constituted by 11 road owning agencies and stakeholder departments under the direction of CAQM.

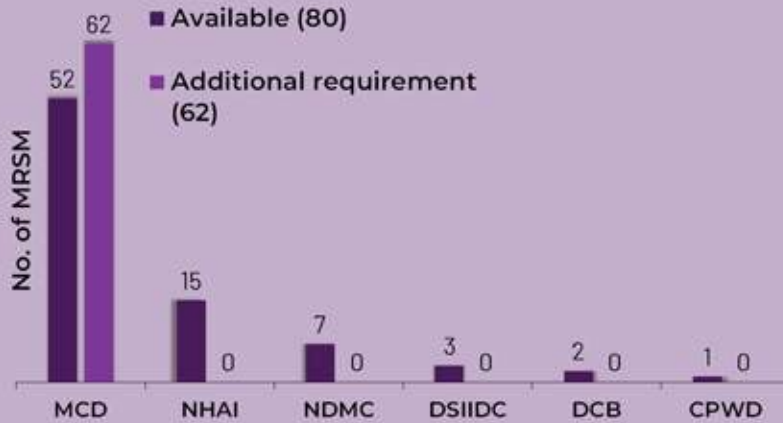
Monitoring optimum utilization of road sweeping machines, scientific disposal of dust collected in designated sites/ landfills, water sprinkling to suppress dust especially after mechanized sweeping, conversion of non-paved road sides into paved, greening of central verges and deployment of Anti-Smog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

CAQM reviews progress regularly.

18

Deployment of MRS Machines

MRSM available and additional requirement



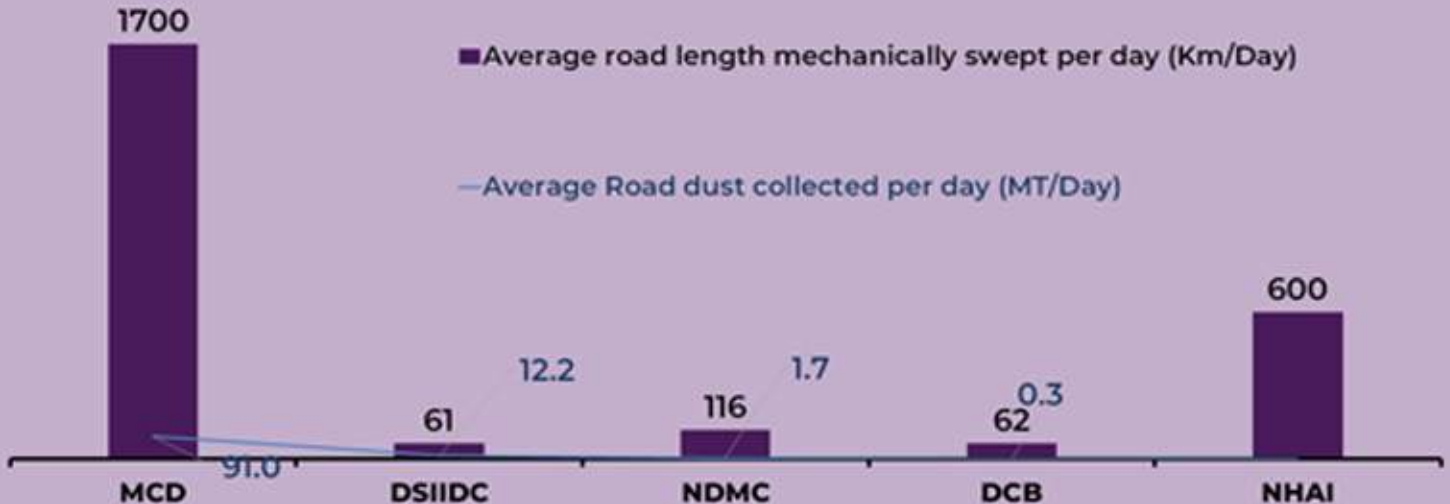
18

under
procurement

by Municipal Corporation
of Delhi (MCD)

MRSM: Length swept and dust collected

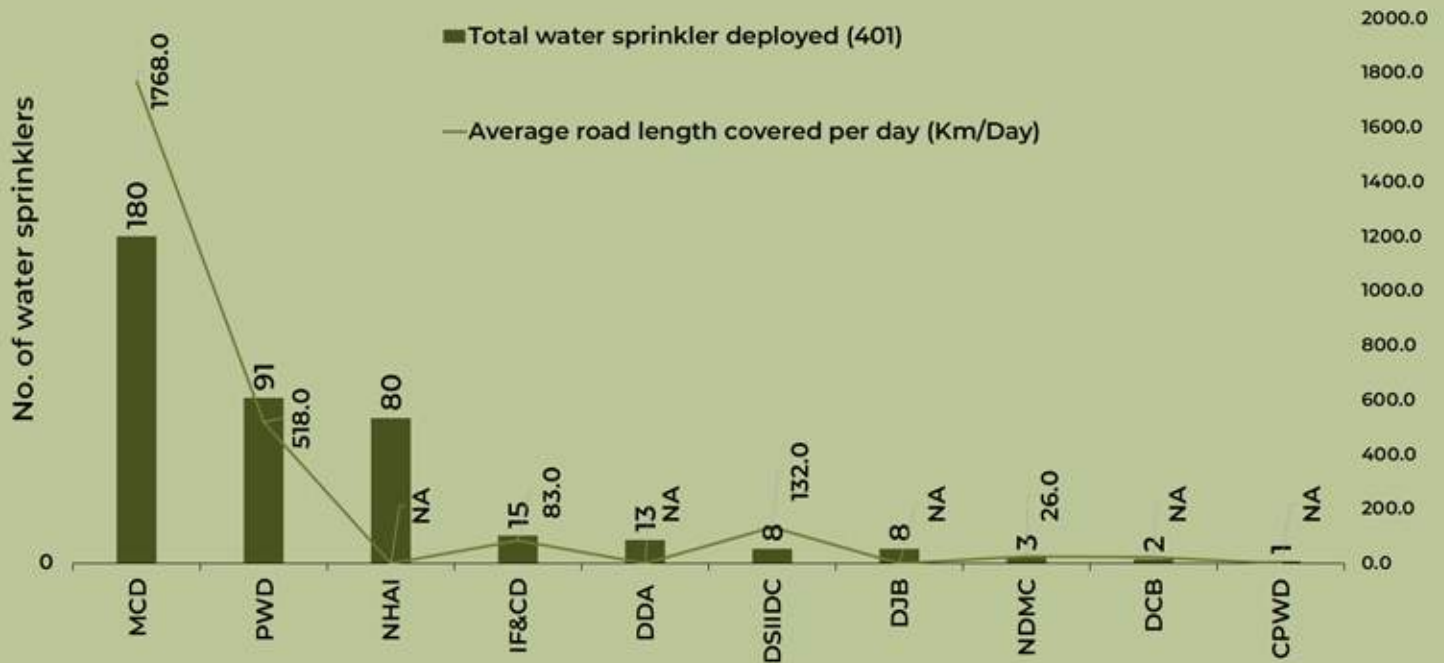
Average 2539 km/day



19

Deployment of Water Sprinklers

WS: Length and water sprinkled



Dust suppressants trials done by ULBs

1000-9000
liters

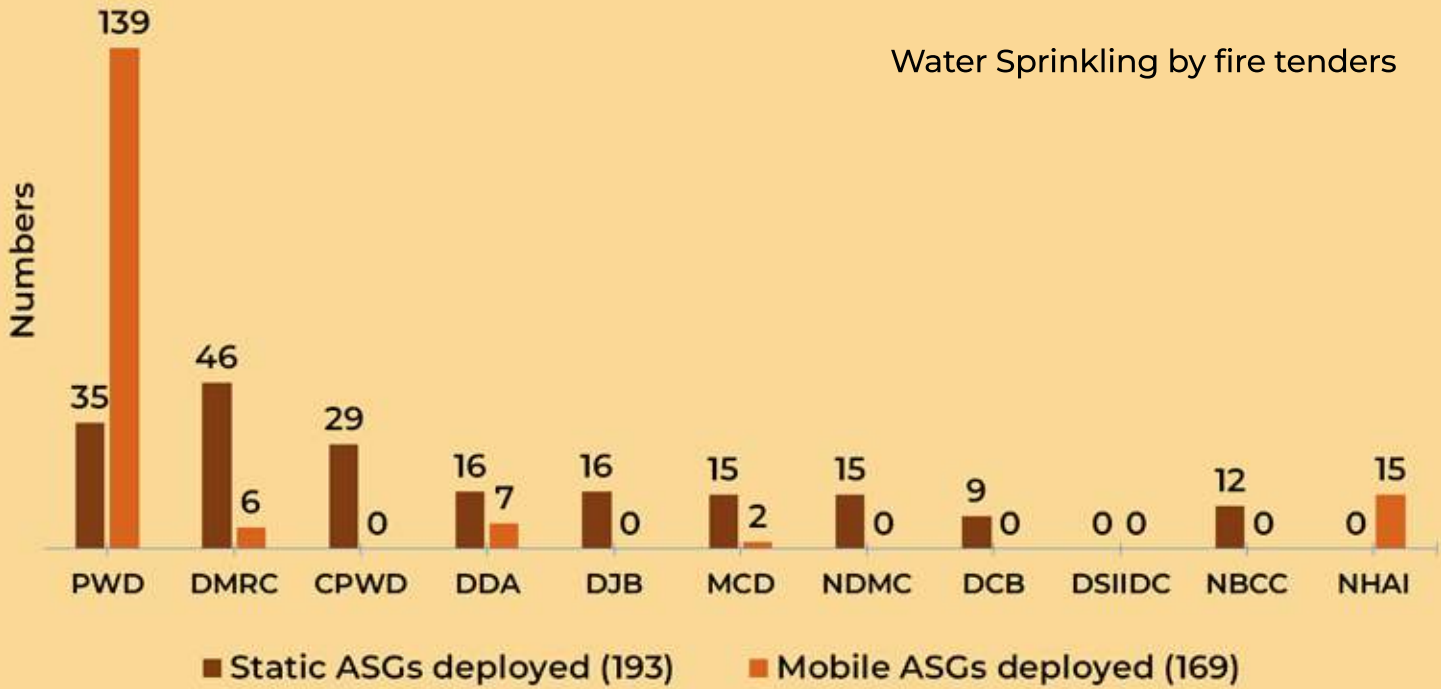
Water Sprinkler Capacity
Range

20

Mitigation of dust from Road and Open areas

Deployment of Antismog Guns

Water Sprinkling by fire tenders



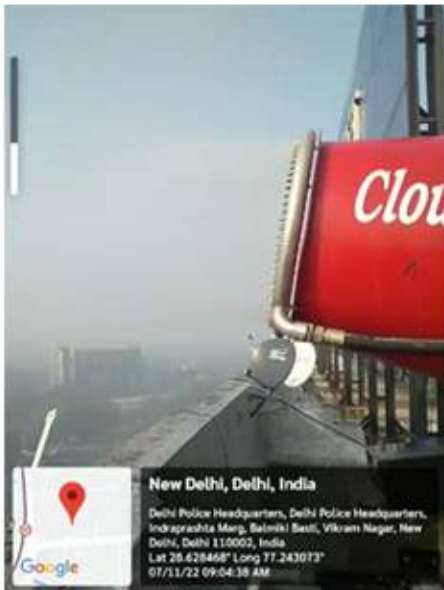
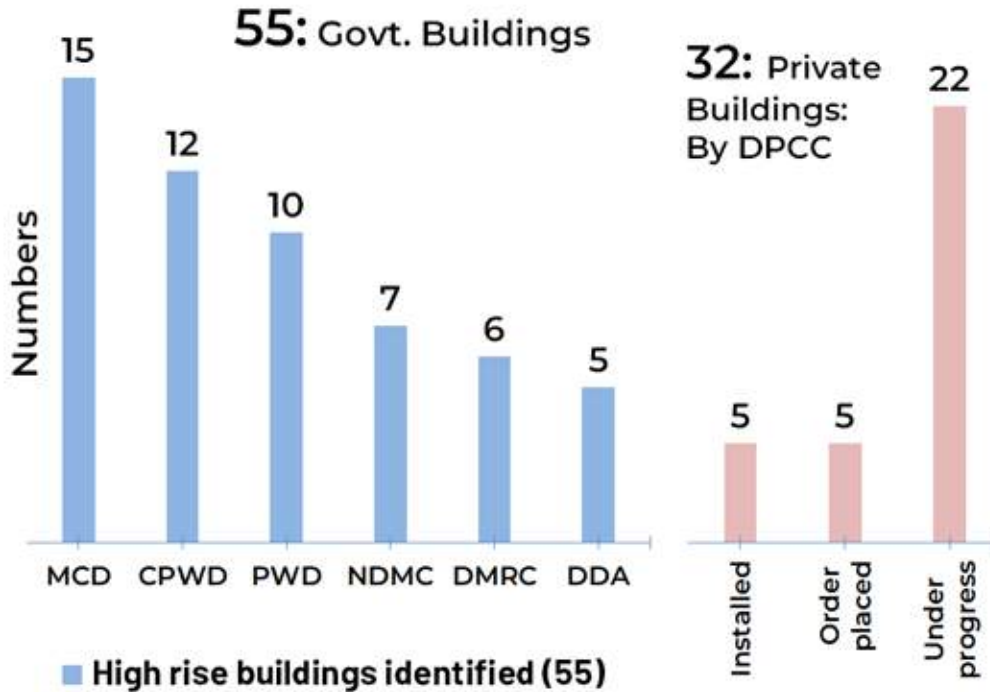
21

Deployment of ASGs on

High Rise Building**Installed on 20 high rise buildings [total 87]**

More than 50 high-rise govt buildings identified so far.

Hotels, shopping complexes etc. directed by DPCC



**ASGs in-
stalled at
15 Govt
buildings**

22 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 .

Allocated Rs 22.5 Cr in 2022-23 and received Rs. 11.24 Cr so far.

Transferred 100% funds [22.5 Cr.] to MCD for purchase of 14 MRS and 28 Water Sprinkler/ Anti-Smog Guns

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

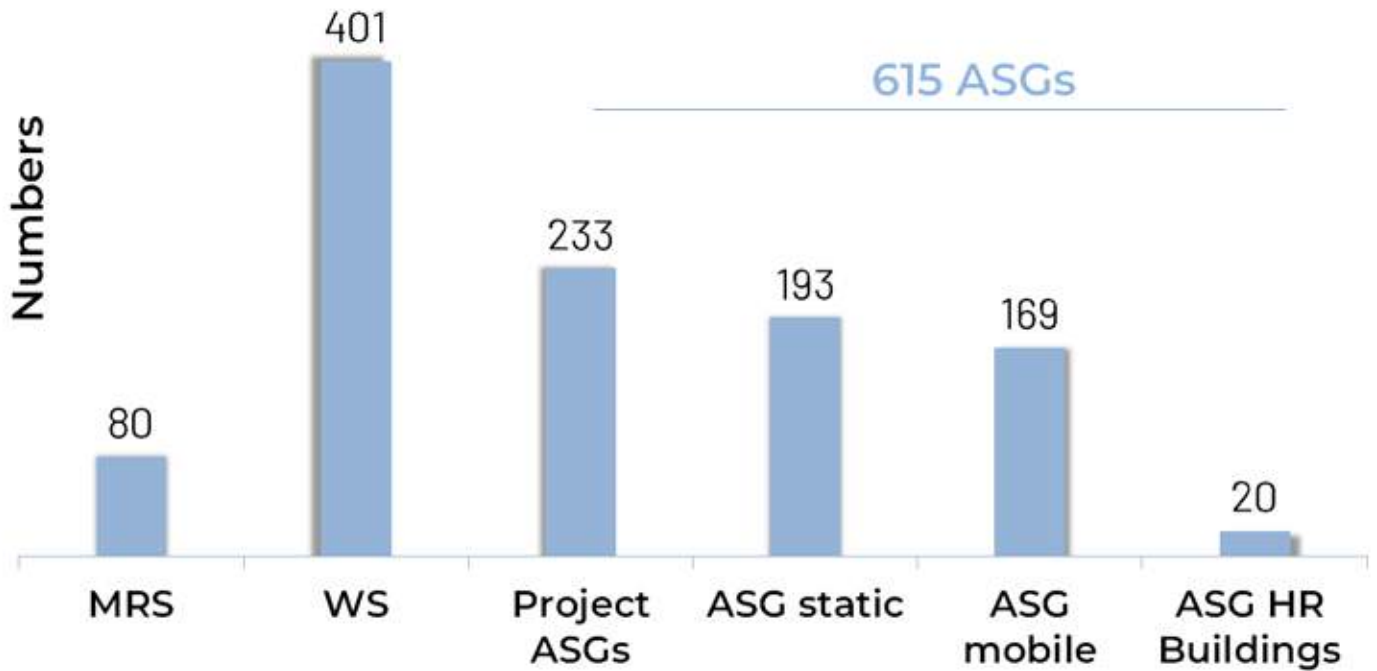
Funding to PWD for mobile ASGs



150

Funding to PWD for procurement of Mobile Anti Smog Gun machines : Rs 20 Cr
from plan scheme Pollution Control in Emergency Measures
Of Department of Environment

23 Machines in summary



Intensified measures (GRAP)

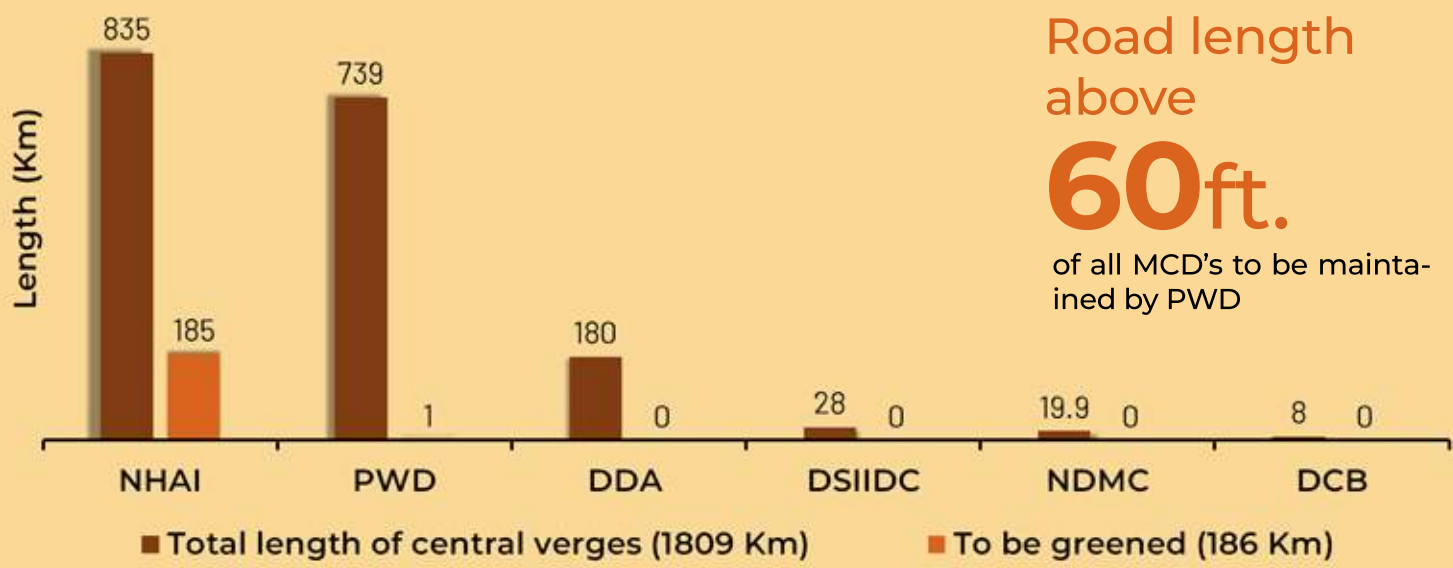
24 Hr operation of all MRS, WRS and Anti Smog Machines.

All DMs/ADMs/SDMs directed to inspect and conduct Day/Night monitoring (31.10.2022).

Monitoring Performa circulated.

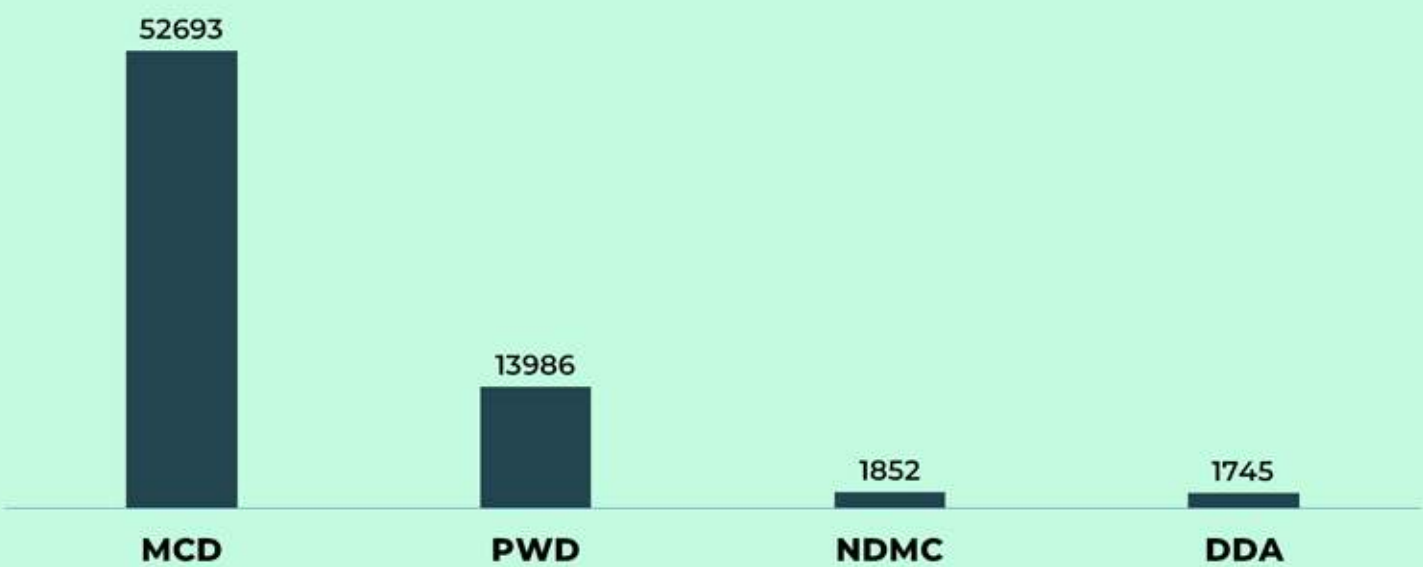
24 Mitigation of dust from Road and Open areas

Greening of central verges (as on Nov, 2022)



25 Repair and maintenance of road patches/ potholes

Road patches/ potholes repaired



Period : Apr-Nov, 2022

NHA: Regular repair of potholes & patches

DCB: All roads are potholes free

70276

Road patches/ potholes repaired

26

Implementation of Scheme:

one Road per zone every week**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

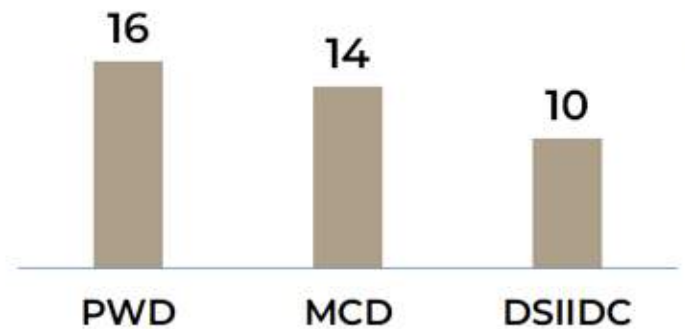
188

Roads found maintained

40

Roads not maintained/repaired end to end

Agencies asked to submit report to Environment by 12th Dec



03

Control of fires incidences in sanitary landfill sites



Strategies

1

Ensuring 100% household waste collection and segregation

2

Processing of Municipal solid wastes

3

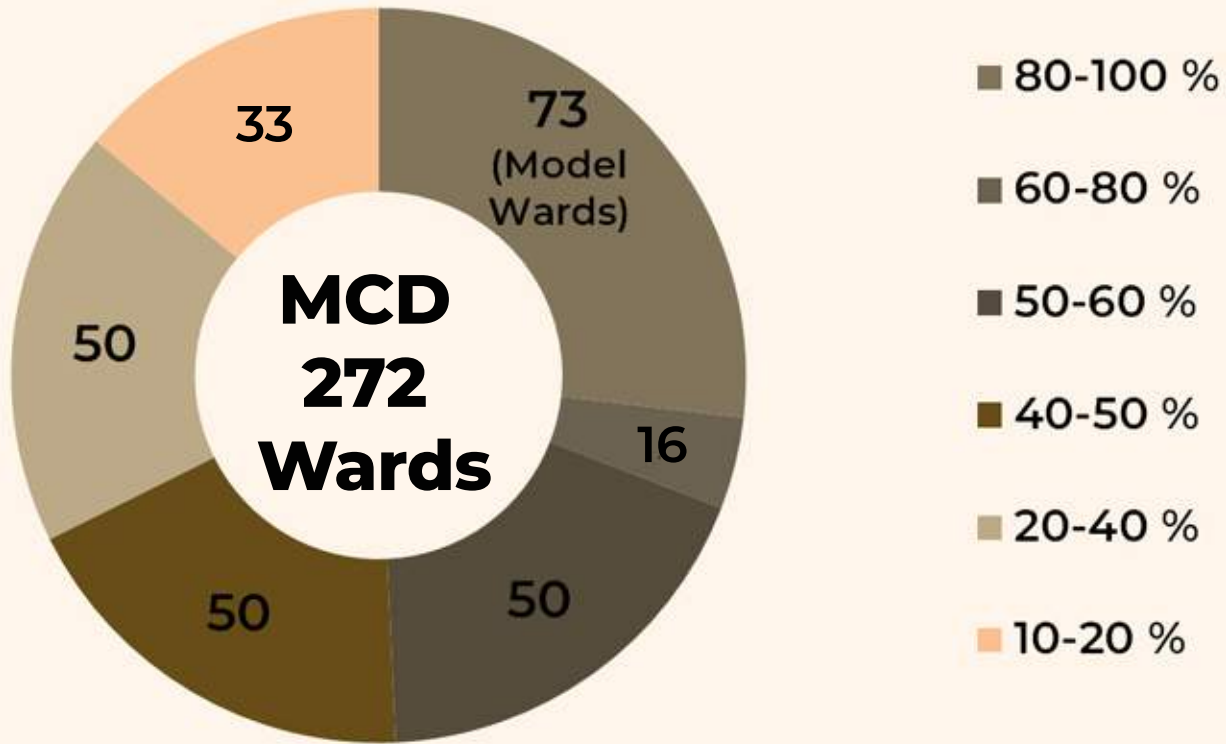
Remediation of legacy waste

4

Control of fires in landfill sites

27 Control of Fire Incidences

Ensuring 100% household waste collection and segregation



100%

Collection of MSW by Local bodies

NDMC - 100 % in all 14 Circles

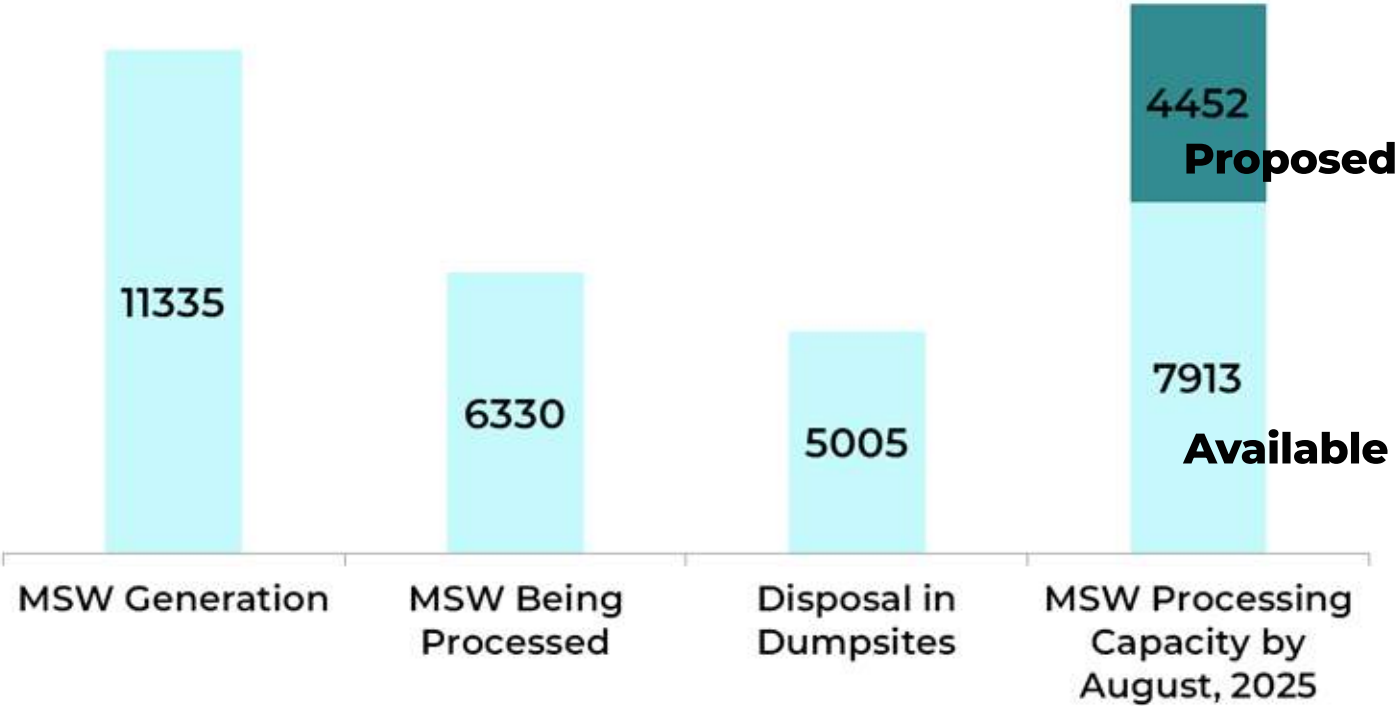
DCB - 95-100% in Model Wards of Civilian Area and 60-70 % in Army Area

MCD: 100 % segregation Timeline – June, 2023

28 Control of Fire Incidences

Processing of Municipal solid wastes (MSW)

Units in TPD



2000 TPD Waste to Energy Plant at Tehkhand inaugurated in October, 2022

Major Proposed Projects:

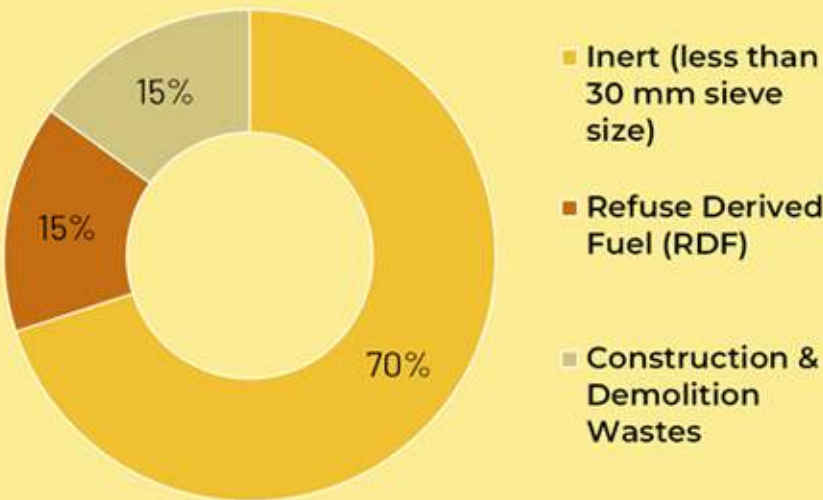
3000 TPD Waste to Energy Plant at Narela - Bawana (31st Aug, 2025)

Expansion of existing WtE of 1950 TPD at Okhla to 2950 TPD

29 Control of Fire Incidences

Remediation of legacy waste

Composition of Biomined legacy waste



44
trommel
machines
in operation



30 Control of Fire Incidences

Control of fires in landfill sites



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

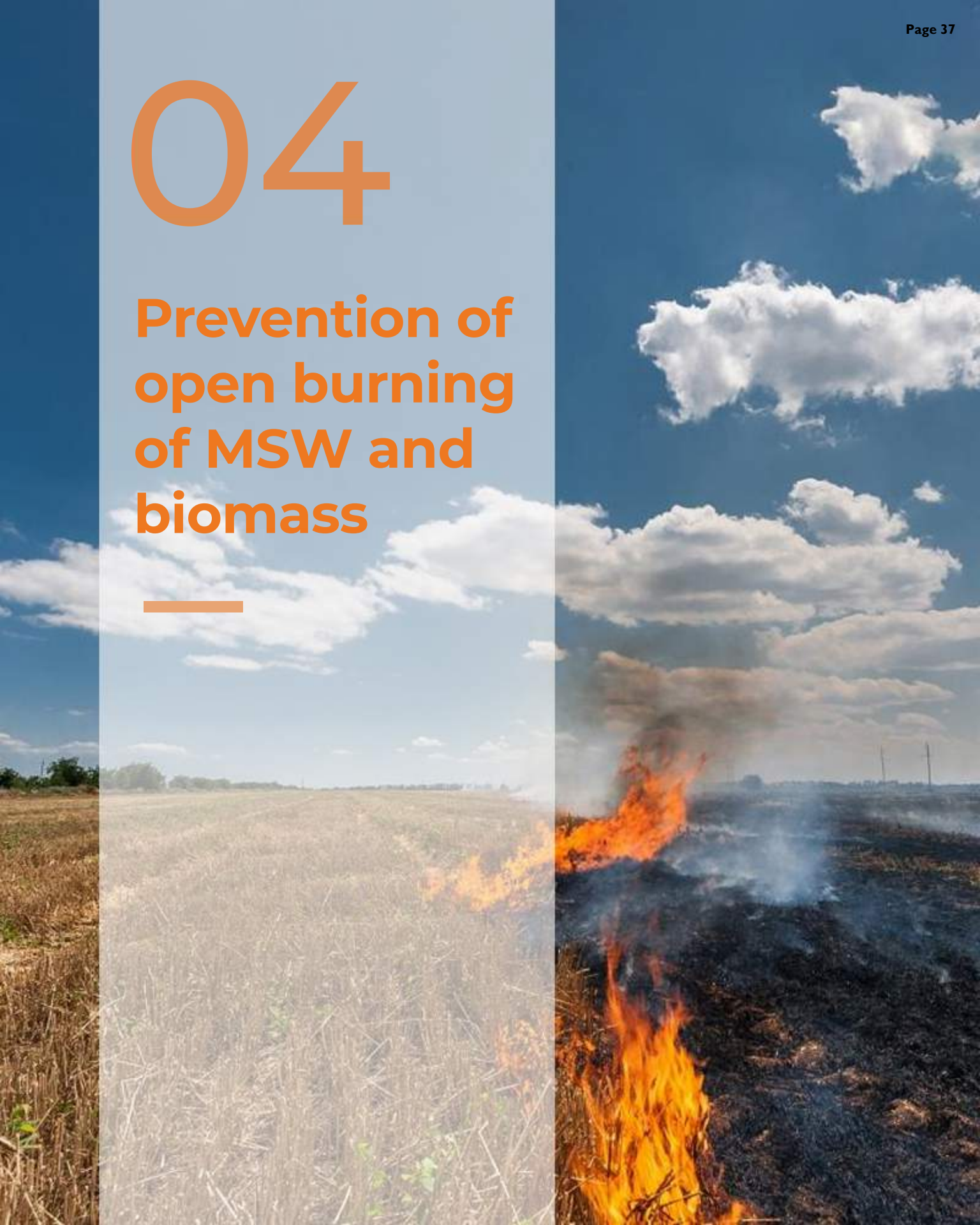
Substantial reduction in landfill fires during the last five years from around 159 fire incidents in 2017.

Only 5 fire incidents (4 major + 1 minor) reported this year.

Target : Zero landfill fire in winter 2022-2023

04

Prevention of open burning of MSW and biomass



Strategies

1

Enforcement : MSW
burning

2

Bio-decomposer
Technique, Subsidised
Machinery

3

Burning along
railway tracks

4

Lifting and proper
disposal of industrial
waste

31

Prevention of open burning of **MSW and Biomass**

Enforcement : Biomass burning
Period: Oct to Nov, 2022

10968

No. of inspections
of garbage burning
sites conducted

₹ 7.9 lakhs

Amount of
fine imposed

824

No. of open
burning incidents
addressed

611

Teams of 1624 personnel
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.

21 vulnerable areas/spots listed and shared with MCD

32 Prevention of open burning of **MSW and Biomass**

Stubble burning control Action Plan FY : 22-23

29,000 Ha

Area under Agriculture
(Paddy: 5800 Ha)

27,500 ton

Approx. Stubble
Generation

In-Situ Crop Residue Management

Implementation of CSS
Scheme – Promotion of Agri-
cultural Mechanization

50% subsidy on machinery
(Super SMS, Happy feeder,
Shrub Master, Zero till drill, Su-
perseeder, bailers).

Target subsidy Rs. 90 Lakh
(22-23)

Bio decomposer Spray-Target,
2022-23 : 5000 Acre (2000 liquid
+ 1000 power + 1000 capsule)
(sprayed from 14.10.2022 on-
wards)

Prohibition of Stubble/ Crop Residue Burning

ADMs/ SDMs - nodal officers in
each district, to coordinate and
monitor

15 Teams of 22 personnel (15 D &
7 N) for daily field inspections

50 Training/ Awareness programs
and 50 demonstration programs
to be conducted in FY 2022-23.

4329 86.6 %

Acres covered
(Till 24th Nov, 2022)

10

Fire incidents
reported in Delhi
(Till Nov, 2022)



Organic carbon increased by 5.36 to 42.11% and available nitrogen increased by 2.70 to 24.21 % by spaying of PUSA Bio-decomposer.

33 Prevention of open burning of **MSW and Biomass**

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.)

Lifting and proper disposal of industrial waste

164

Vulnerable Spots

identified for industrial waste dumping in industrial areas.

90% Physical verification completed by DPCC. Around 25 confirmed plots. List will be shared with MCD except Narela and Bawana Industrial Area.

Meeting held with Industrial association 24.11.2022.

05

Electric/EV mobility



Strategies

1

Increasing adoption

2

Augmentation of
infrastructure [EV
Charging Stations/
battery swapping]

3

Electrification of
Depots

4

Mandating
procurement of EVs

34 Electric/EV mobility

Increasing adoption

Electric vehicles growth in Delhi : Snapshot



Since
7th Aug, 2020



122 Cr
Subsidy
50,000 vehicles



10 %
New registrations
was Electric
(Jan-Dec, 2022)

Augmentation of EV Charging Stations/ battery swapping infrastructure



2384

Charging
Stations
In place



3470

Charging Points
In place

Targets by 2025



234

Swapping
Stations
In place



896

Charging points :
Under the
DTL tender
over next
6 months

18000 (Public)
30,000 (Private/Semi Public)

35 **Electric/EV mobility**

Augmentation of infrastructure

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

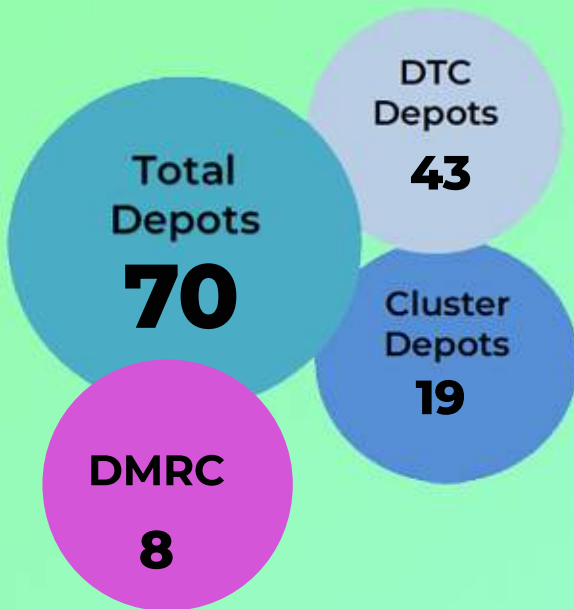
MCD has been requested to approve building plans only if they adhere to EV Charging Station (EVCS) requirement (20% of parking capacity) and also ensure implementation of 5% parking space to be EV ready in existing buildings with parking capacity of more than 100 vehicles within six months



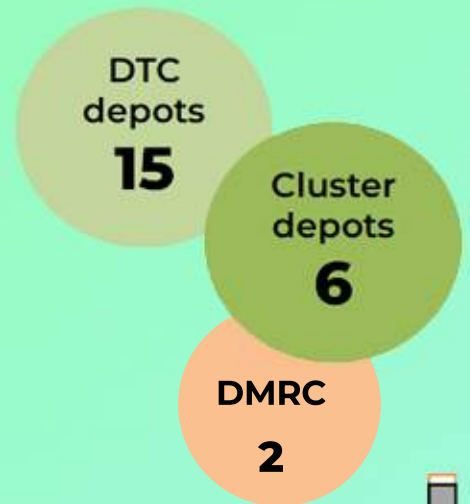
36 Electric/EV mobility

Electrification of Depots

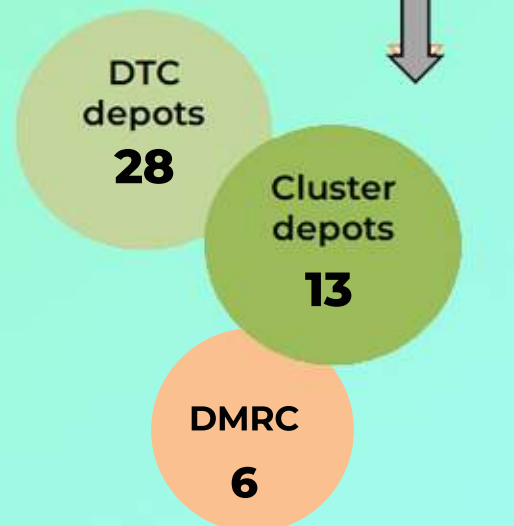
Existing Depots



Phase I



Phase II



Phase - I

Electrification of 23 depots in Phase-I (DTC-15 & Cluster-6).

8 depots electrified, Work underway for 10 depots.

Plan to electrify balance depots by FY 2024-25 to achieve 8000 buses out of target fleet of 11,000 Buses

37 Electric/EV mobility

Motor Vehicle Aggregator Scheme : Mandating procurement of EVs

Timeline	The target for adoption of EVs in new fleet	
	2 W & 3 W	4 W
	Passenger and Commercial	
Initial 6 months from day of grant of license	10%	5%
Within 1 year from day of grant of license	25%	15%
Within 2 years from day of grant of license	50%	25%
Within 3 years from day of grant of license	75%	50%
Within 4 years from day of grant of license	100%	75%
Within 5 years from day of grant of license		100 %

A broad governing and regulatory framework for passenger mobility service providers, last-mile delivery service provider and e-commerce entities to adopt EVs.

Phased transition to Electric Vehicle fleet.

Aggregator Rules under submission for approval.

Goal: 100% fleet electrification by 2030



Vehicular Pollution Control

1. Phasing out old vehicles
2. Enforcement of PUC norms
3. Action against non- destined trucks
4. Smooth road traffic management

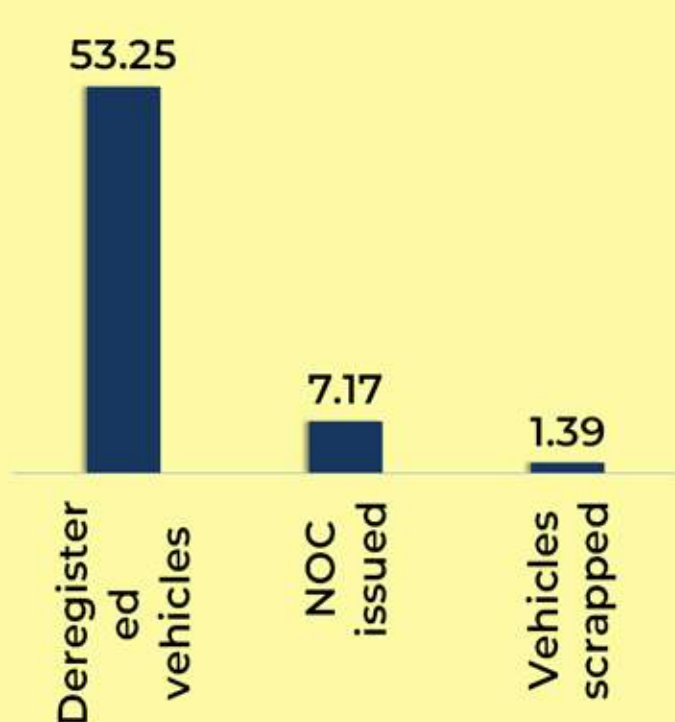


38

Elimination of 10/15 Year old

Diesel/Petrol vehicles

Phasing out old vehicles [Total live vehicles = 78.7 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.

53.25 lakh vehicles (10-15yr old) have been de-registered

12671

Vehicles impounded and sent for scrapping

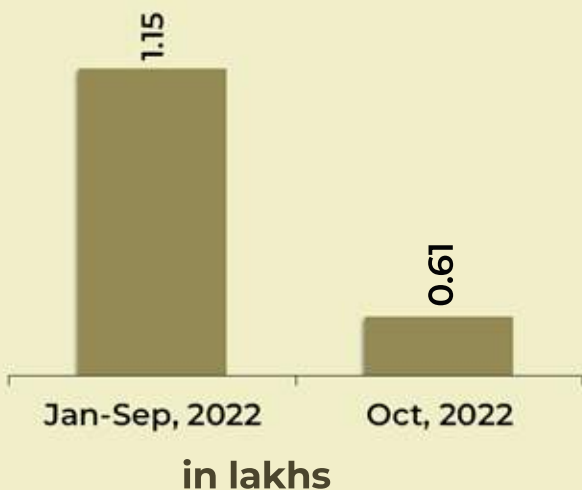
Jan, 2021 to Nov, 2022

39

Enforcement of PUC Regime

Enforcement of PUC norms

Challans issued (w/o PUCC)



1.76
lakhs

Challans issued (w/o PUCC)

62.7
lakhs

PUC issued
Jan-Nov, 2022

950 PUC Centers in Delhi - 100% of PUC Centers linked with remote server of NIC.

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.

Audit of all PUC Centers before 31st Mar, 2023

Extensive drive started from 15.09.2022.

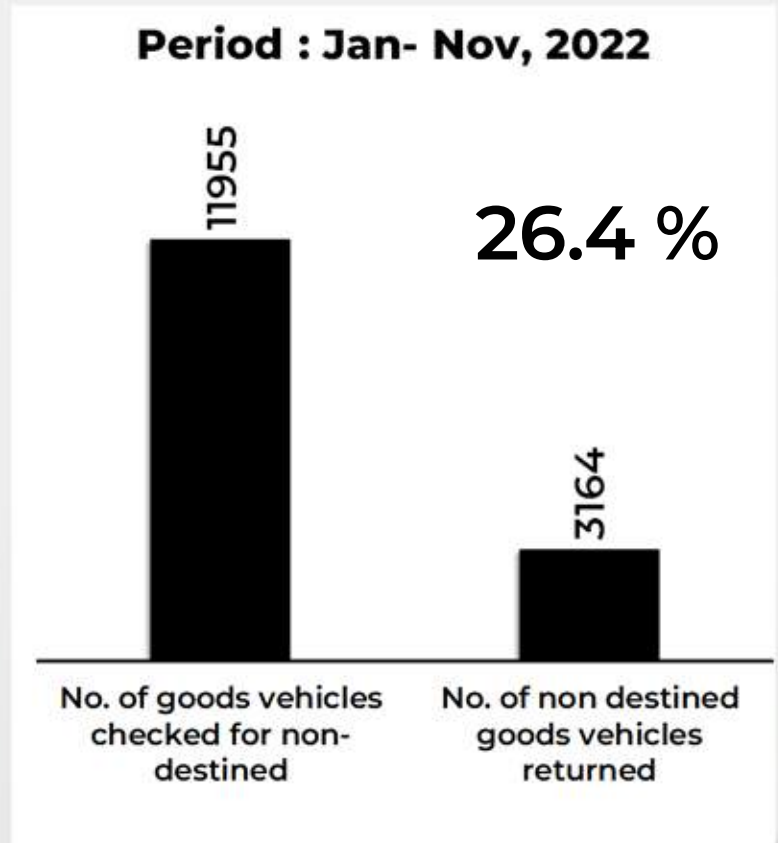
380 Teams of 950 personnel for checking PUC compliance.

40 Enforcement of **PUC Regime**

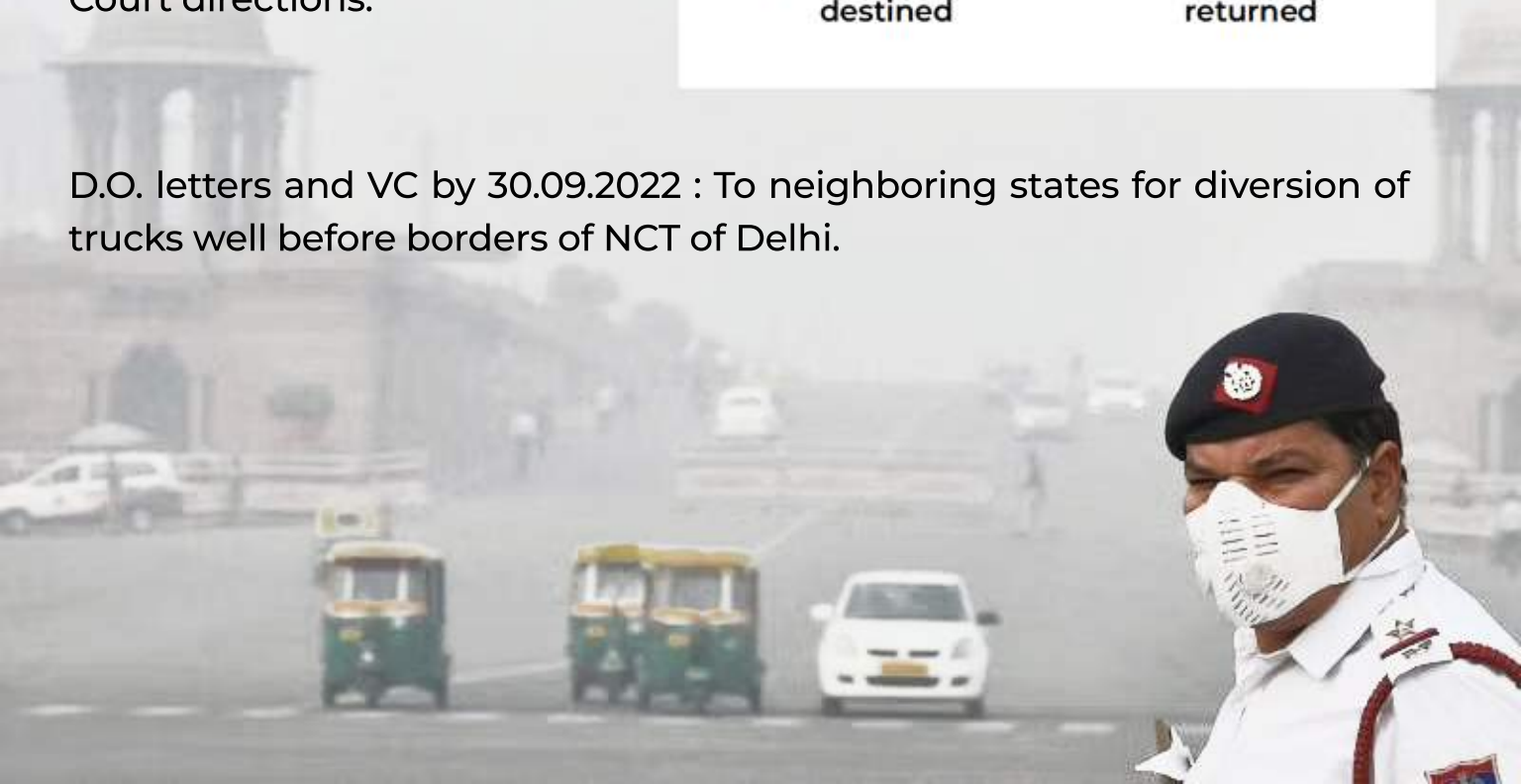
Action against non- destined trucks

Non destined trucks are not allowed to enter NCT of Delhi as per order of Hon'ble Supreme Court.

Delhi Traffic Police and Transport Dept. to take action against trucks (except carrying essential goods) regarding their entry in Delhi as per GRAP, CAQM and Hon'ble Court directions.



D.O. letters and VC by 30.09.2022 : To neighboring states for diversion of trucks well before borders of NCT of Delhi.



Road traffic management

Inter-departmental Task Force : headed by Transport Commissioner.

Lane Driving : Regular action against buses and four wheeled goods vehicles as per directions of Hon'ble Supreme Court.

Encroachment removal : Regular drives on major arterial roads in coordination with local bodies.

Delhi police requested by Transport Dept. to avoid **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

Out of 1471 traffic junctions/blinkers, 1146 surveyed, and DPR to be completed within timeline of 8 months from 15.03.2022



42

Smooth

Road traffic management

Identification and removal
of congestion points

1500+

Officials deployed on daily basis for
smooth traffic management

203

Road Stretches

Identified road stretches with ma-
ximum congestion (Transport)

Multilevel Car Parkings

19 Available

multilayer parking
near metro stations
and at heavily con-
gested sites.

10 In-Progress

05 to be completed
by April, 2023

13

In pipeline

Action against unauthorized
parking

Period : October and November, 2022

52,535

Challans issued

1.65 lakhs

Notices issued

Ensuring 100 % utilization is crucial



09

Augmentation of public transport



Strategies

1

Induction of new fleet

2

Last mile connectivity
to DMRC network

3

Ease of using public
transport: Common
Mobility App

43

Augmentation of
Public transport

Fleet Induction – by 2025

GC = Grand Challenge by CESL

DTC Buses

EXISTING FLEET

3760
CNG

300
E-bus

INCOMING FLEET

1500
E-bus GC-1

PROPOSED FLEET

2400
E-bus GC-2
(12 mtr)

1040
E-bus GC-2
(9 mtr)

Cluster Buses

EXISTING FLEET

3319
CNG

INCOMING FLEET

450
CNG bus

100
DMRC

PROPOSED FLEET

1900
E-bus GC-2

1040 DMRC E-bus
GC-2 (9 mtr)

Total
Existing Fleet

7379

Total
Incoming Fleet

2050

Total
proposed Fleet
GC2

6380

Retiring
Fleet

5329

Total
Fleet

10,480

44 Augmentation of Public transport

Last mile connectivity to DMRC network

E-Bus: 100 E-bus Targeted; 81 Operational
Connectivity : 11 metro stations [Total = 211]

E-Auto: Transport Department issued 799 LOIs of e Autos to DMRC.
Operational : 50, Remaining to be operational in phased manner

E-Rickshaw: Fleet of 321, Serving 10,447 passengers daily.
Connectivity : 23 metro stations. 14 more stations targeted

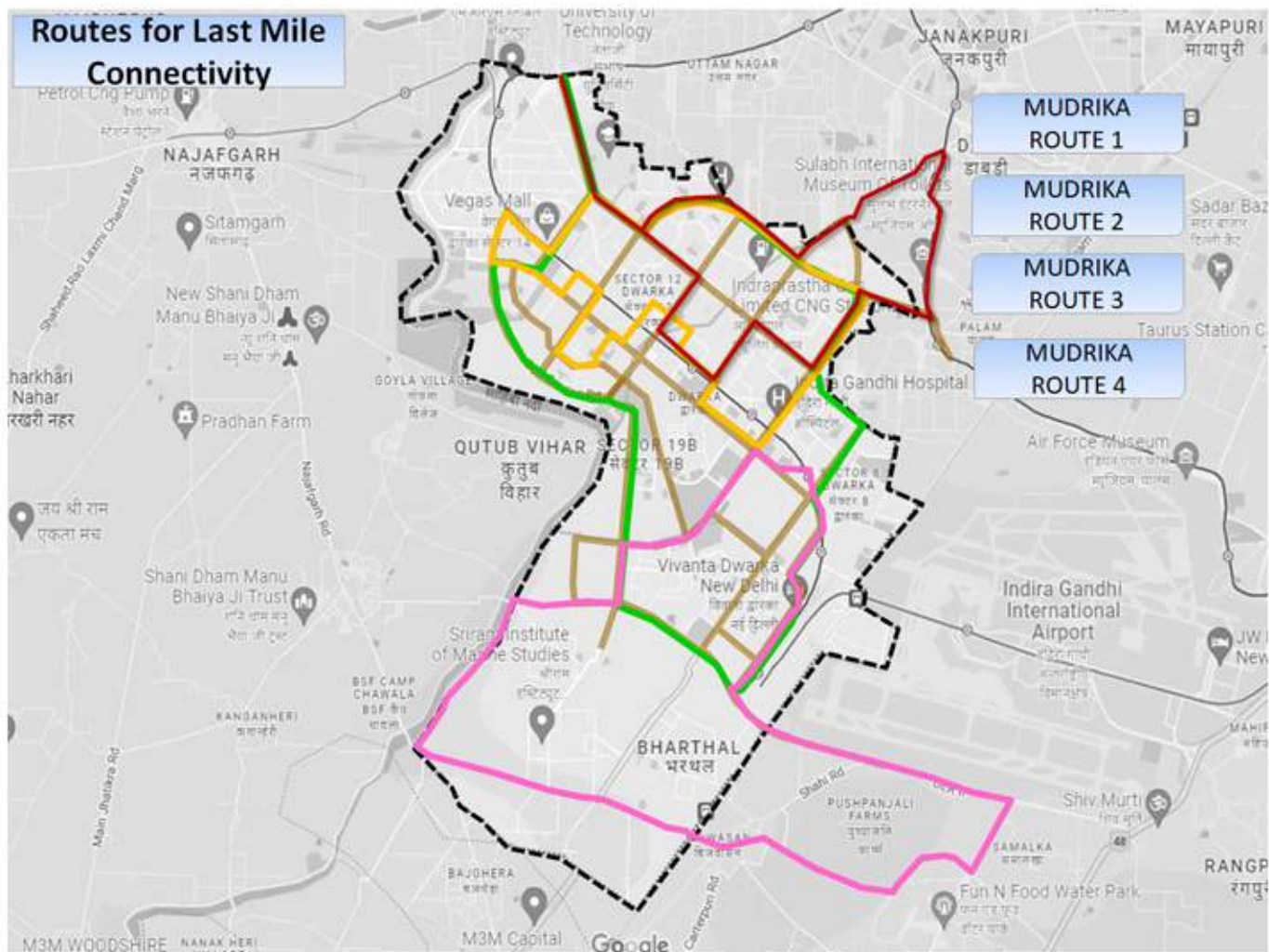
E-Cycles: Micro Mobility Vehicles (MMVs) through a mobile app.
999 : E-cycles
Operational across 37 metro stations. 3 more stations targeted.

Targets to be set for 211 Metro stations



45 Augmentation of Public transport

Last mile connectivity to DMRC network



Proposal for Dwarka has been finalized by DIMTS and will be implemented on 4 routes by Apr, 23.

About 50 e-buses, 1250 e-scooters and e-autos on demand basis to be utilized

46 Augmentation of Public transport

Last mile connectivity to DMRC network

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.

Comon Mobility App

One Delhi App launched on 2.11.2022

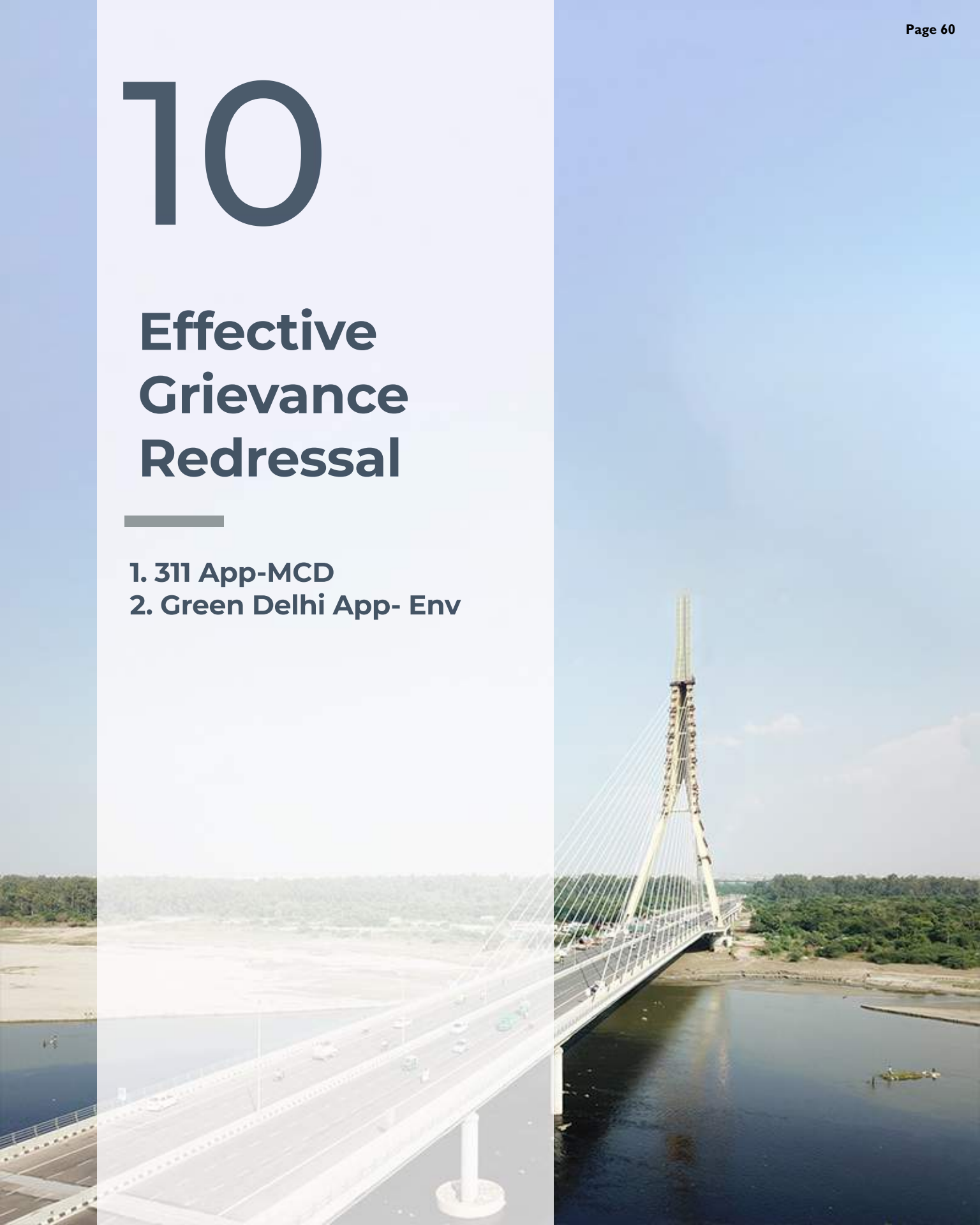
'One Delhi' app launched. Live tracking of buses, buy online bus ticket/pass, find electric vehicle charging stations



10

Effective Grievance Redressal

1. 311 App-MCD
2. Green Delhi App- Env



47 311 App - MCD

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

Reviewed twice by CS in May 22 and thrice by ACS during May – July 22 and by Pr. Secretary on fortnightly basis

Agency	Total	Pendency	Pendency %	Short Term	Long Term
MCD	46335	6171	13%	4439	1732
PWD	19208	4012	21%	2878	1134
NDMC	9274	127	1%	109	18
DJB	4447	1229	28%	312	917
IFCD	3808	1712	45%	610	1102
DDA	3398	1857	55%	1124	733
DSIIDC	1881	1159	62%	374	785
DMRC	921	921	100%	921	0
NHAI	556	551	99%	551	0
CPWD	242	62	26%	60	4
DUSIB	138	50	36%	26	24
NBCC	36	34	94%	34	0
Total	90244	17885	20%	11438	6449

48 Green Delhi app

Green Delhi App. : Grievance redressal

Green Delhi Application:

An innovative platform for submission of pollution related grievances, launched in Oct, 2020 and relaunched in Oct, 2021.

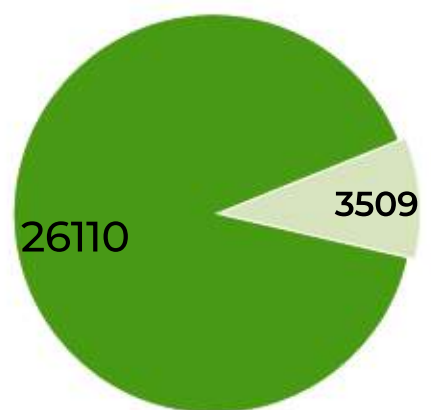
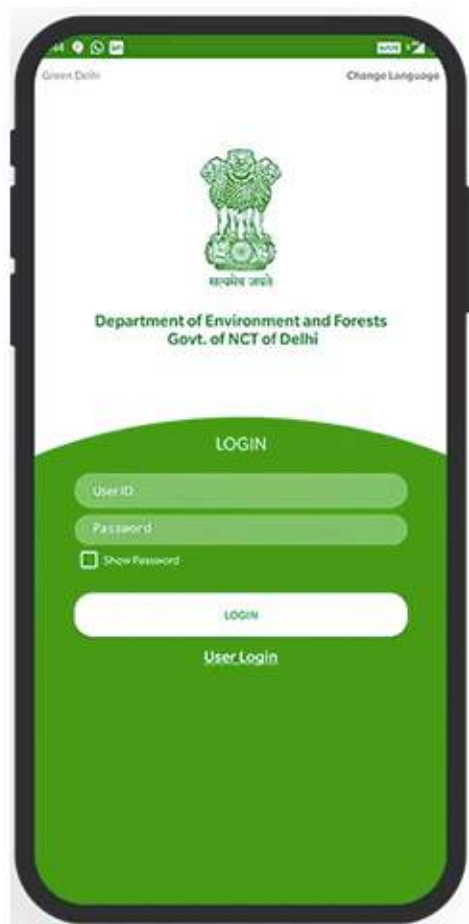
User friendly mobile based app for citizens and agencies.

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

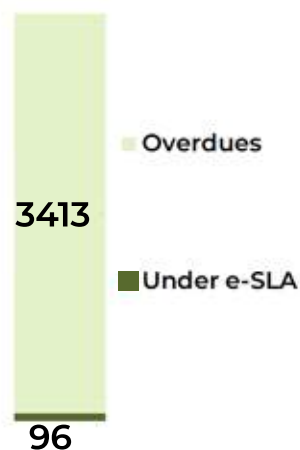
29619 complaints received since October 2021 and **resolved over 88.15 %**

29,619

Total grievances received since October, 2021

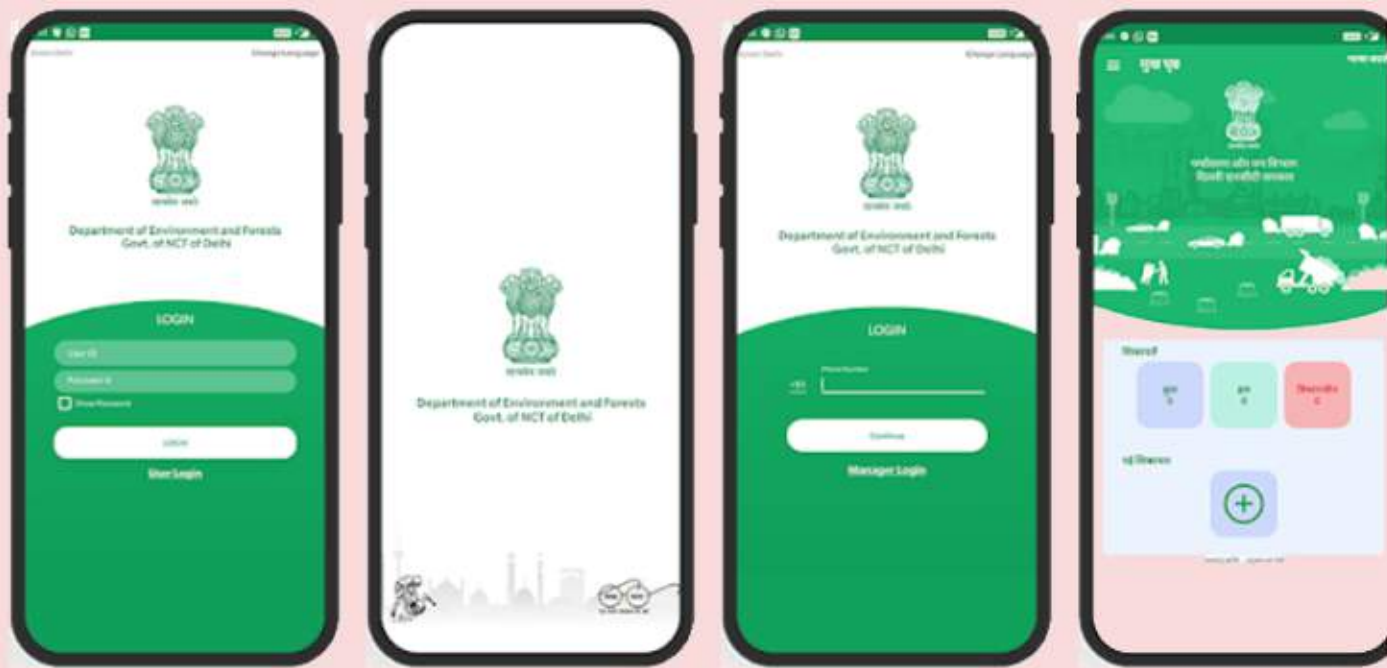
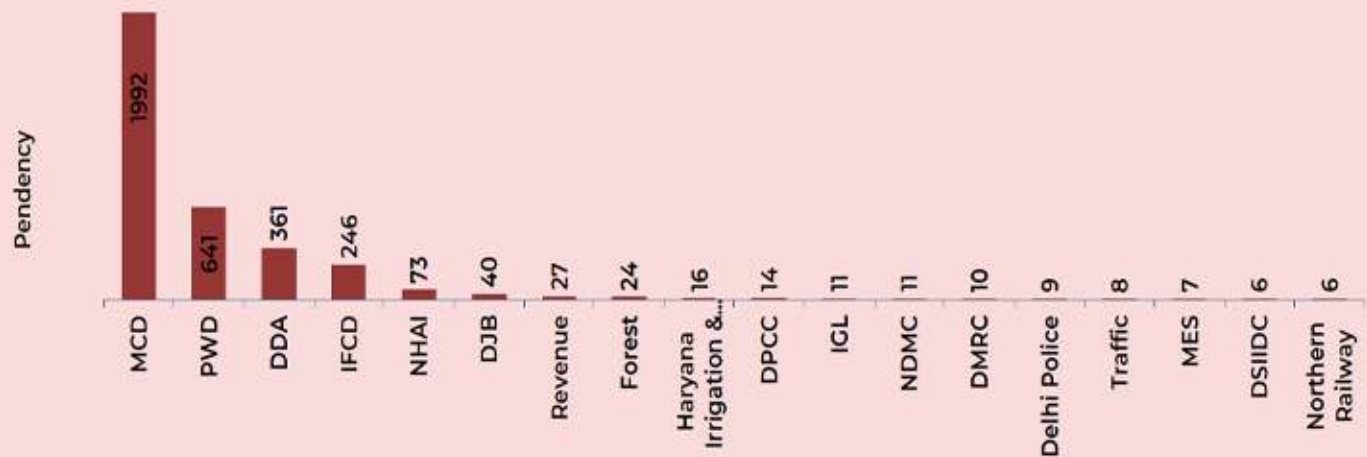


■ Resolved ■ Pendency



49 Green Delhi app

Agency wise grievance redressal (Since Oct, 21)



11

Greening and plantation program



50

Greening and Plantation

program

Implementation of Greening Action Plan, 2022-23

FY - 2022-23 : Targets

Plantation target : 35.14 Lakhs

Free distribution target: 7.80 Lakhs

42.94 lakhs

Total Target

44.51 lakhs

(103.6 %)

Achievement till Nov, 22

Plantation: 37.82 Lakhs (107 %)

Trees : 7.61 Lakhs

Shrubs : 29.92 Lakhs

Bamboo/Hedge :0.29 Lakhs

Free distribution- 6.69 Lakhs (85.7 %)



12

Abating pollution from DG sets



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.

DISCOMS to provide SCADA access to check the uninterrupted power supply in the city.

Way Forward

In view of oncoming G-20 summit

1. Micro action plans for 13 Hotspots (based on inventorization done)
2. 100 Plus Mechanical Road Sweeping Machines
3. 250 Integrated Anti Smog Guns cum water sprinklers/tankers
4. 100 percentage coverage of exposed ground cover
5. 100 percentage coverage of non paved road sides and central verges
6. 20 Lakhs plantations
7. PUC compliance special drives in two shifts
8. Encroachment free road side pedestrian footpaths
9. 100 percent compliance by C&D projects
10. Integrated command and control center





Department of Environment
Government of the National
Capital Territory of Delhi



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