



Department of Environment  
Govt. of NCT of Delhi



# Anti-Dust Campaign for implementation of Winter Action Plan (03-Oct to 03-Nov-2023)

To Control Air Pollution in Delhi



05.10.2023

## Teams for inspecting Dust pollution for WAP 2023-24

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S. No.	Department	Number of teams and personnel for ensuring compliance of dust control norms at construction sites
		<b>No. of teams</b>
1.	NDMC	3
2.	IFCD	79
3.	DMRC	3
4.	PWD	8
5.	DCB	2
6.	MCD	117+100
7.	DSIIDC	33
8.	CPWD	6
9.	DDA	29
10.	DJB	12
11.	Revenue	75+90
12.	NHAI	1
13.	DPCC	33
	Total	401+190=591

No. of projects registered no DPCC's web portal-580 (active sites)

## Teams for inspecting of Open Burning sites

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S. No.	Department	Team
1.	DCB	2
2.	NDMC	3
3.	IFCD	79
4.	DSIIDC	33
5.	Development	18
6.	DDA	39
7.	Revenue	75+90
8.	MCD	212+27
9.	DPCC	33
10.	<b>Total</b>	<b>494+117=611</b>

# Machinery Deployment

S.No	Department	No. of Road sweeping machines	No. of water sprinkling machines	number of truck mounted anti-smog guns	number of anti-smog guns at large construction Site
1.	NDMC	5+3	18+4	8	20
2.	IFCD	0	70 approx Water sprinkling machines will be deployed as per site requirements on hire basis.	0	0
3.	DMRC	0	0	3	68
4.	PWD	0	80+40	200	42
5.	DCB	3	2	0	
6.	MCD	52	225	30	
7.	DSIIDC	3	8	1	1
8.	DDA	0	3	0	27
9.	DJB	0	0	0	
10.	CPWD	1	0	0	
11.	NHAI	15	80	16	
12.	DPCC	0	0	0	101
	<b>Total</b>	<b>79+3=82</b>	<b>416+114=530</b>	<b>258</b>	<b>259</b>

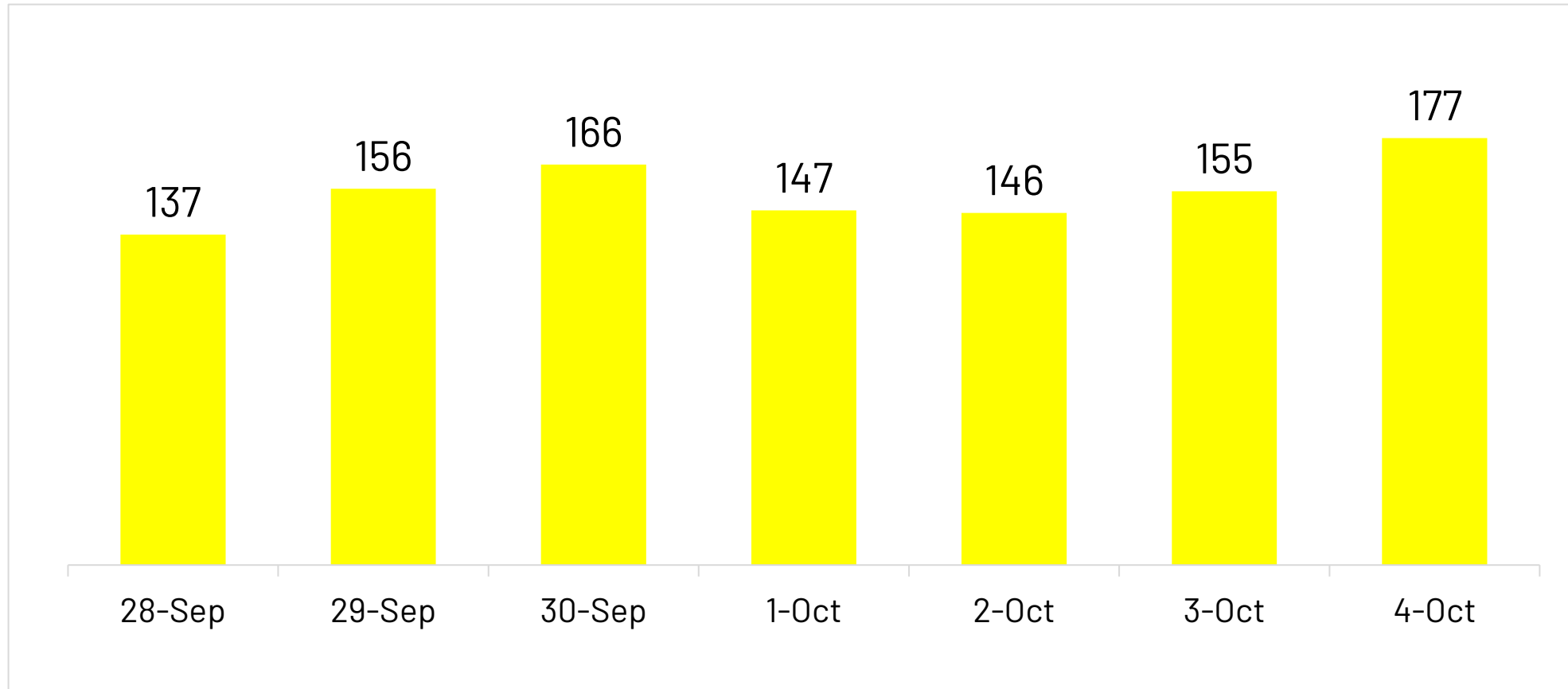
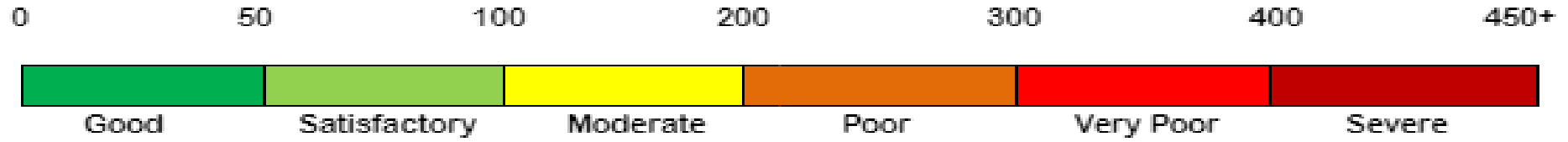
# Machinery Deployment

Teams of Vehicular Pollution Control			No. of Personnel	
Department	Day	Night	Day	Night
Transport	63+10	20+10	234	74
Traffic	145+10	117+10	290	234

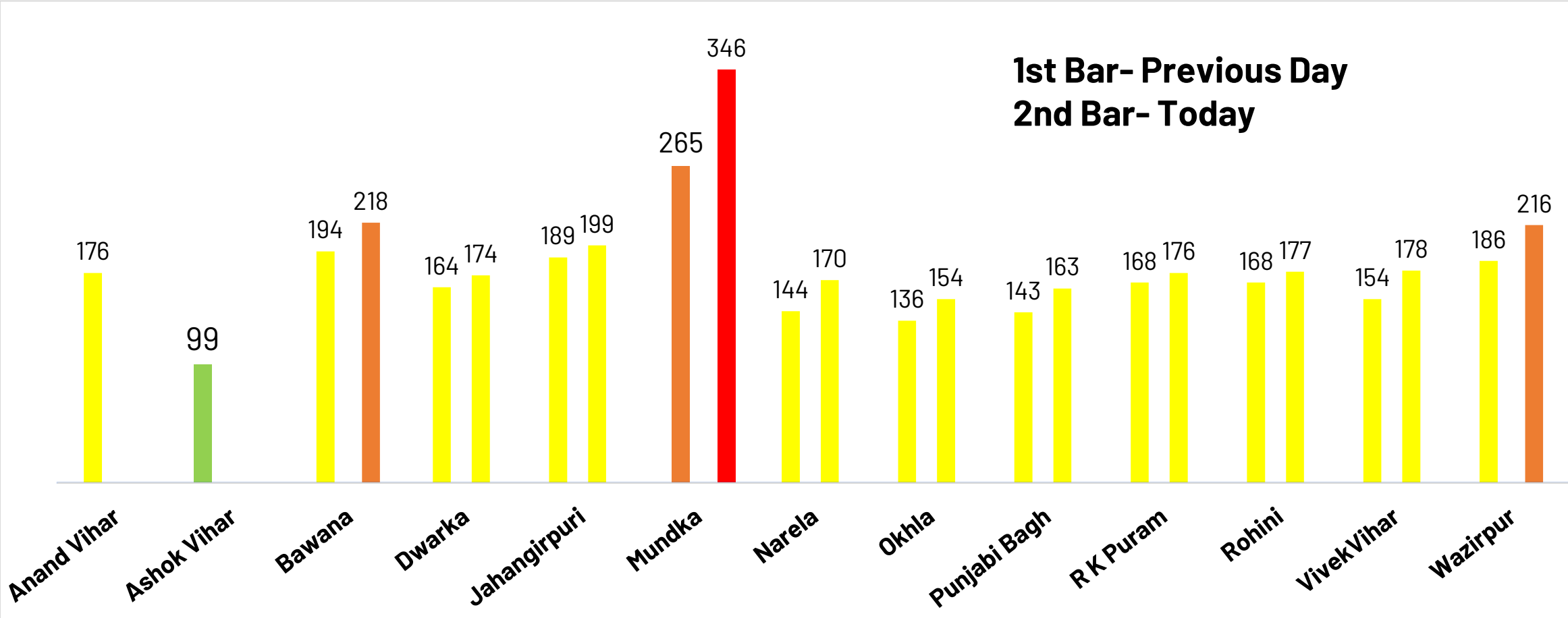
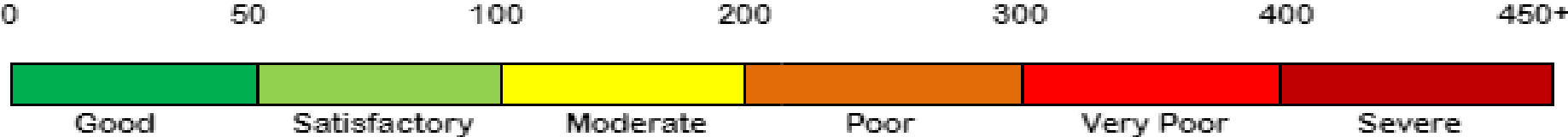
Total teams for vehicular pollution check =385

Firecrackers Enforcement teams			
DCP (Licensing) Police	210		
Revenue	75		

# Air Quality Index

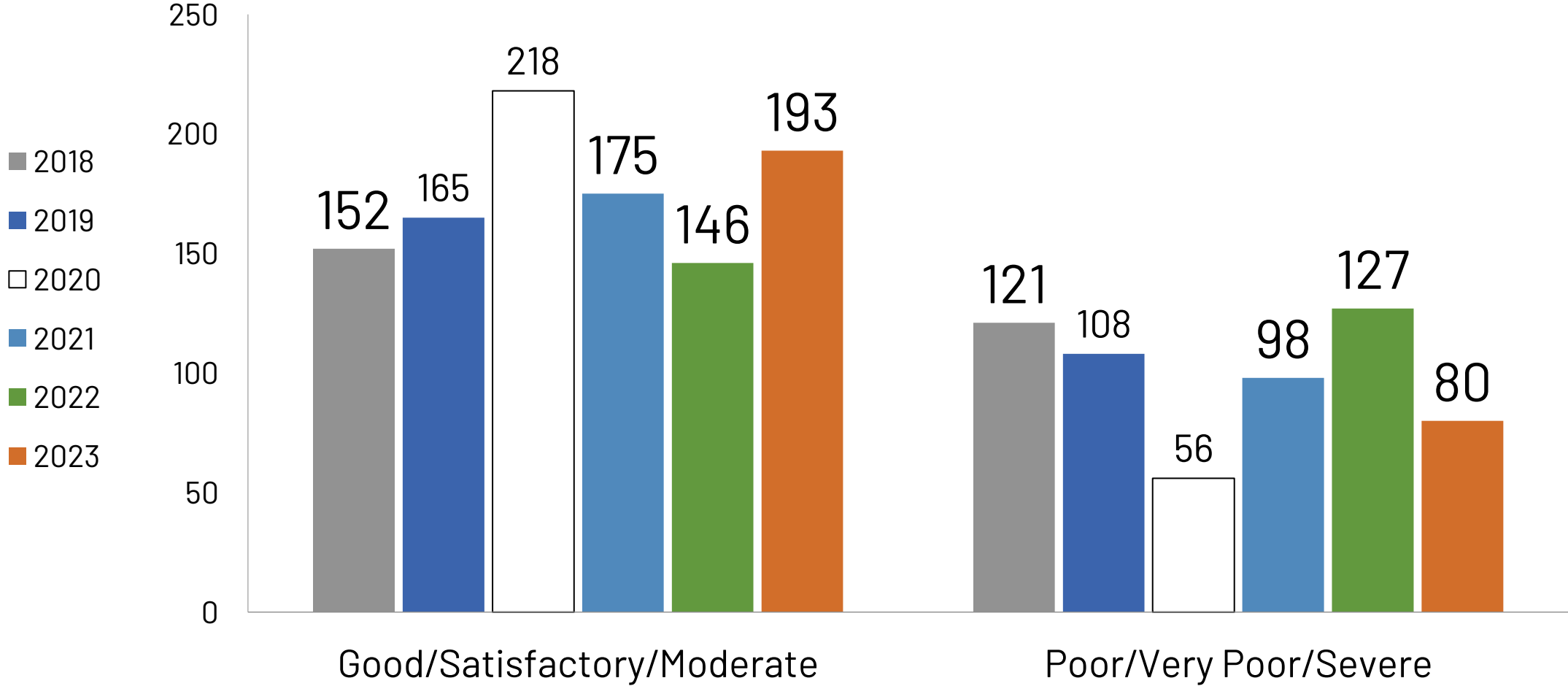


# AQI COMPARISON IN 13 HOTSPOTS



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

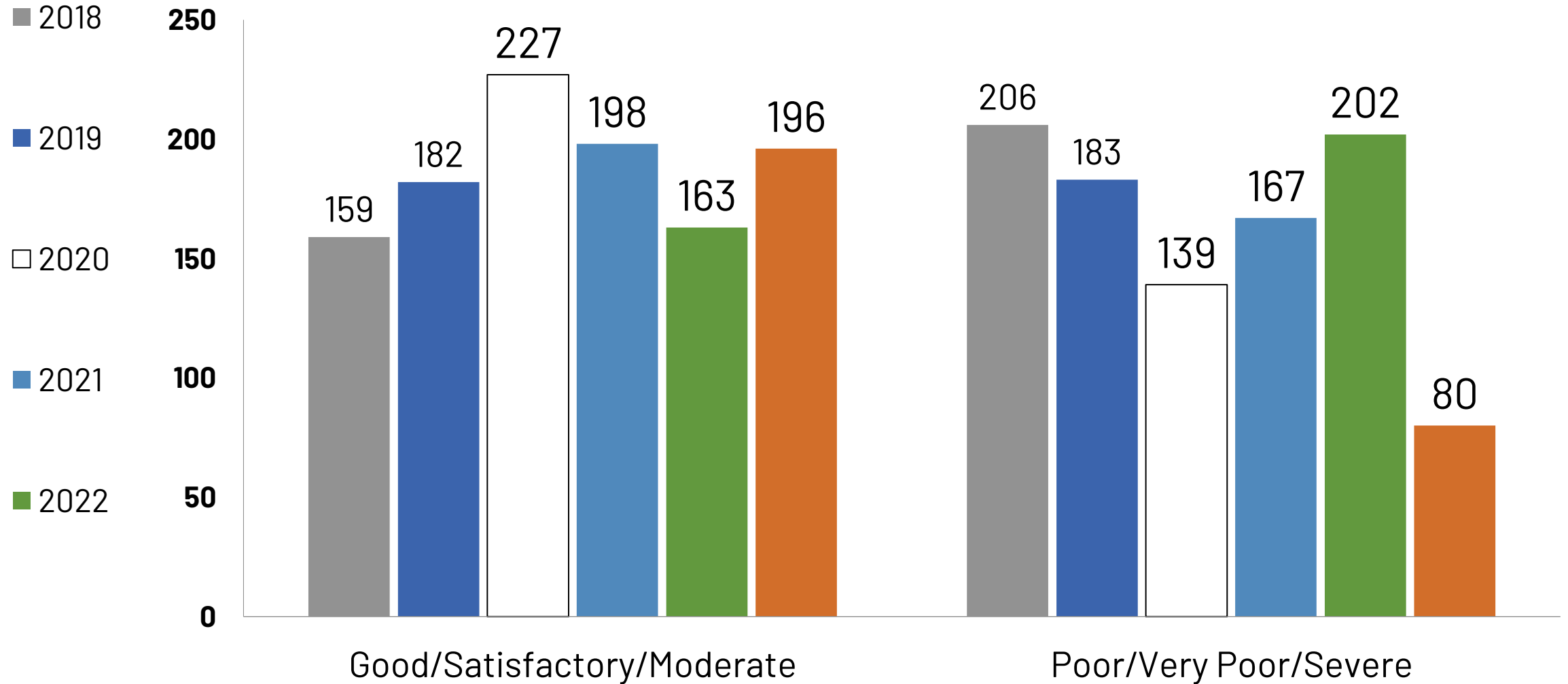
Period: Jan-Sept



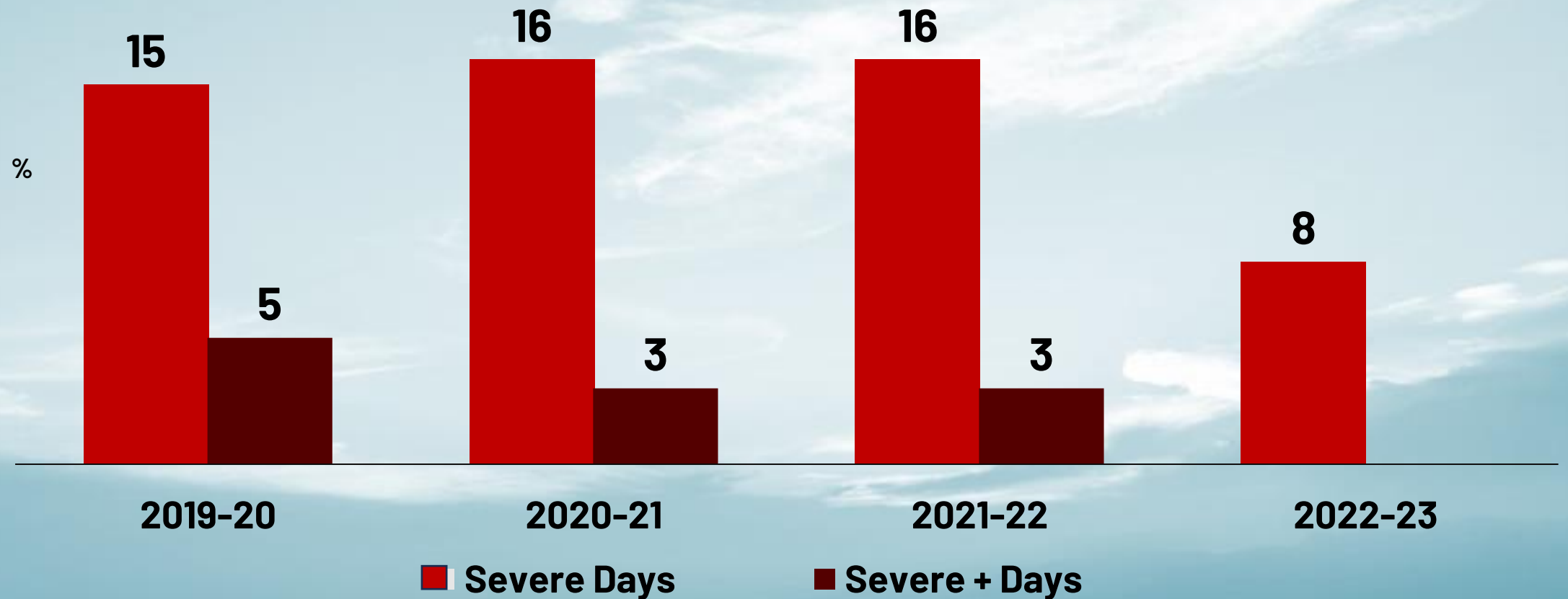


# Days according to Air Quality Index in Delhi

(2018-2023 till 3rd Oct)



# Severe and Severe + Period : October to January (Winter season)



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



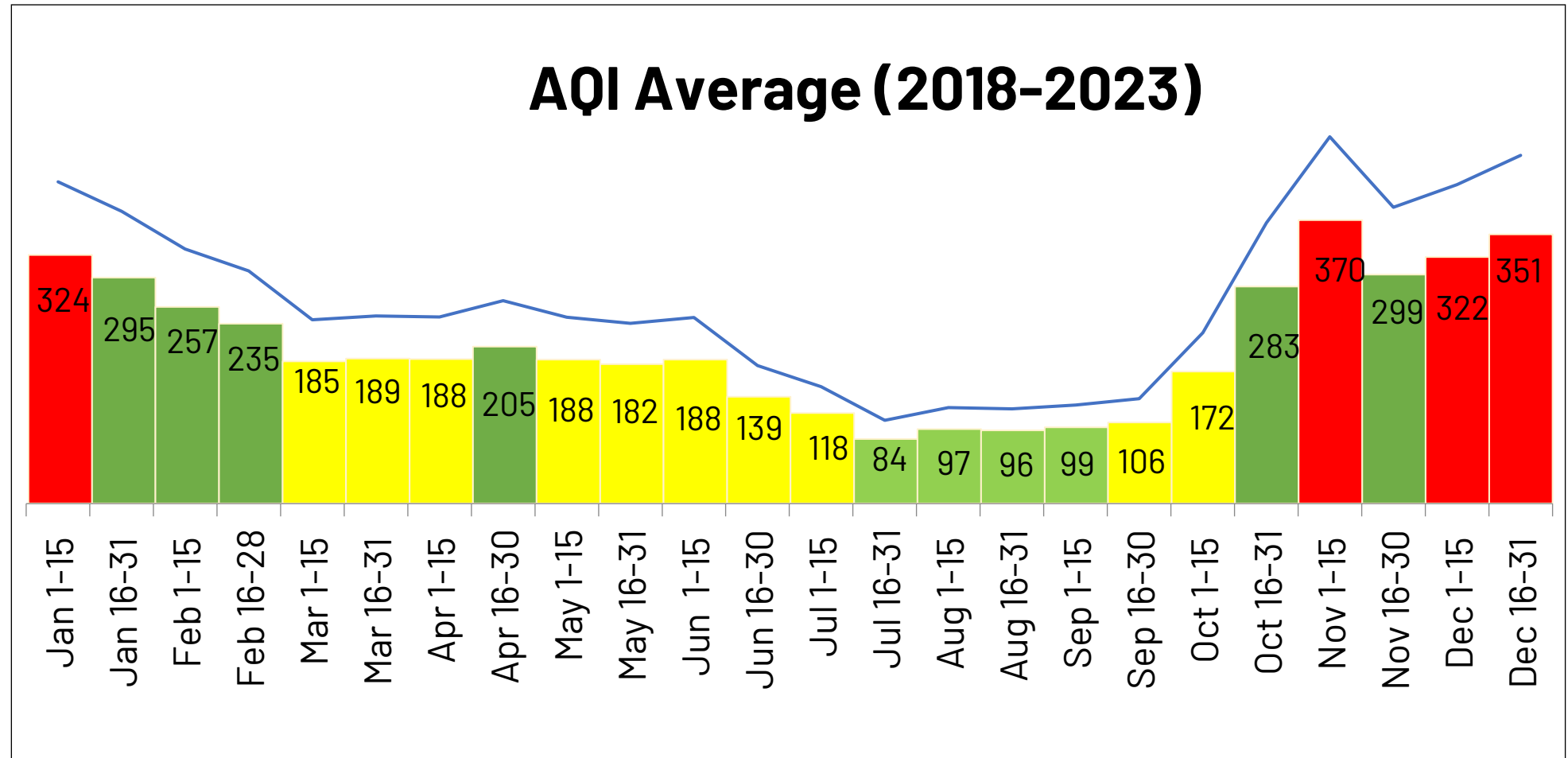
**Air quality category**

**Satisfactory**  
AQI : 51-100

**Moderate**  
AQI : 101-200

**Poor**  
AQI: 201-300

**Very Poor**  
AQI: 301-400



\* AQI Average 16th Sep-31st Dec is for 2018-2022

# 01

## Management of Construction & Demolition activities to reduce dust

DDA | PWD | CPWD | UD | IFCD | NBCC | DPCC |  
Department of Revenue | ULBs | UD |  
Transport , Delhi Traffic Police |



# Delhi Pollution Control Committee Guidelines



01

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



02

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



03

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



04

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

# Delhi Pollution Control Committee Guidelines



05

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



06

All construction should be stored on the site and not dumped on public roads or pavements.



07

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



08

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



# Delhi Pollution Control Committee Guidelines



09

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



11

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



10

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



12

Every worker should be provided with dust-mask

# Delhi Pollution Control Committee Guidelines



13

Arrangement should be provided for medical help, investigation & treatment to workers



14

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



# Control of C&D dust – web based monitoring mechanism

## Self- assessment web portal for C&D sites (<https://dustcontroldpcc.delhi.gov.in/>)

- DPCC : 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



Dedicated Teams and night Teams for ensuring compliance of dust control norms at construction sites, road dust control, etc during Winter, 23-24.

- Total 1038 sites registered on dust portal as on 22.09.2023.
  - Active sites: 580
  - Closed sites: 458
  - Self Assessment: 4073
  - Self Assessment (Unique): 337
  - No. of sites filled Camera Details: 244
  - No. of sites uploaded AQ data: 274

# Control of C&D dust – web based monitoring mechanism

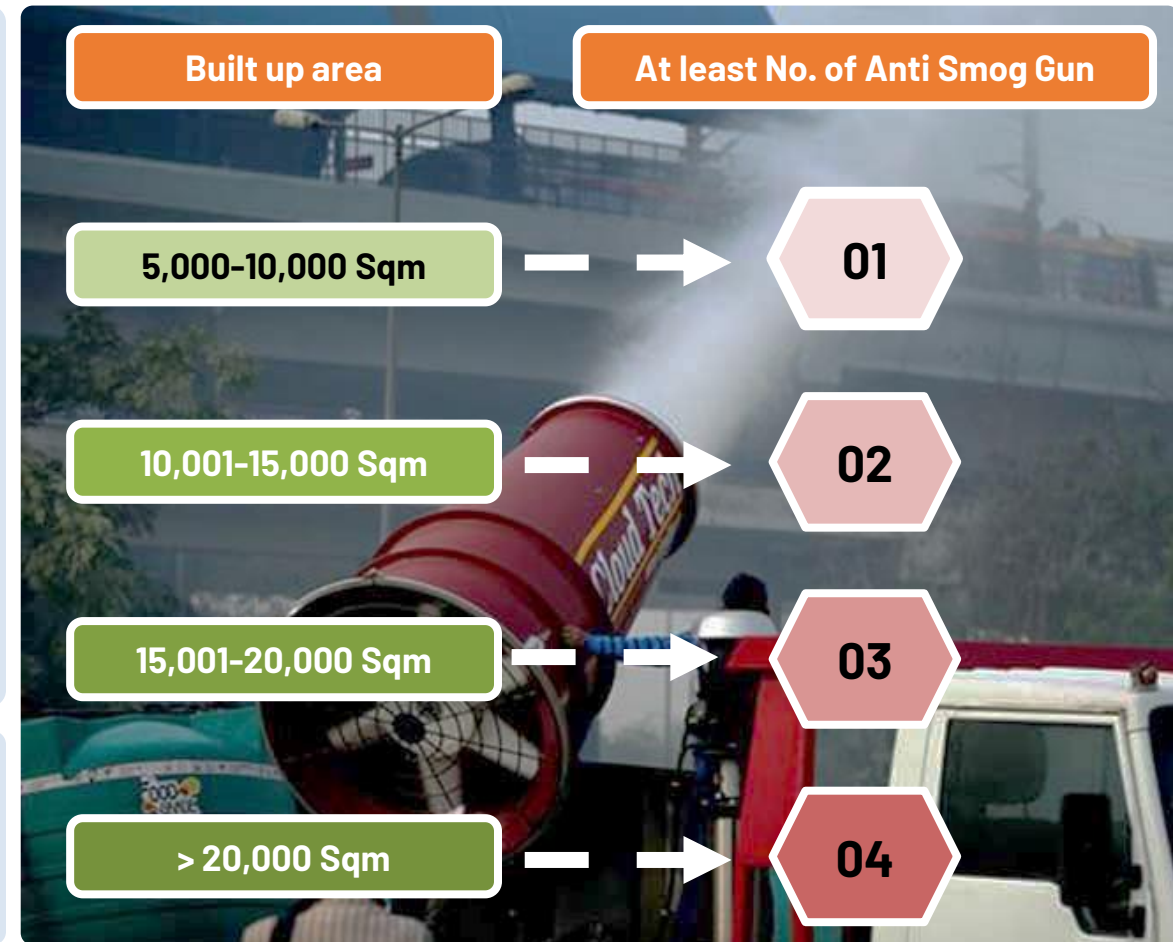
## CAQM's Standards/ Guidelines pertaining to mitigating C&D dust

- 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).



Deployment of **233 anti-smog** gun at large construction sites

**Ge coordinates need to be shared**



# Road Dust Control

S. No.	Domain	Data requirement	Data point
1.	Mechanized Road Sweeping	No. of MRS machines deployed today (Nos.)	
		Road length covered with MRS Machine today (Km)	
		Amount of road dust to collected for scientific disposal in designated sites/ landfills today (MT)	
		Quantity of treated water utilized from STPs for water sprinkling by MRS (in Lt.)	
		MRS frequency	
2.	Manual Road Sweeping	No. of personnel deployed for manual sweeping of road today (Nos.)	
		Road length manually swept today (Km)	
		Amount of road dust to collected for scientific disposal in designated sites/ landfills today (MT)	
		Frequency of manual sweeping	

# Road Dust Control

3.	Water Sprinkling on Road	Water sprinkling machines/ tankers deployed today (excluding MRSM)(Nos.)	
		Road length covered with water sprinkling/ dust suppressant today (km)	
		Water sprinkling frequency	
		Amount of Dust Suppressant used (in kg)	
		Road Length covered with dust suppressant	
		Number of Anti-smog gun deployed on roads (today)	
		Road length covered with water sprinkling through anti smog guns today	
4.	Road Dust Hotspots	No. of location identified as road dust hotspots today(Nos.)	
		No. of hotspots addressed today(Nos.)	
		Corresponding road length addressed today (Km)	

# Road Dust Control

5.	Unpaved roads / Broken roads	No. of sites of unpaved roads / broken roads inspected today (Nos.)	
		Length of unpaved broken roads as of today out of inspected roads (in km)	
		No. of sites found unpaved today/ broken roads today (Nos.)	
		Length of unpaved road/ broken road greened today (in km)	
		Length of unpaved roads / broken roads paved today (in km)	
		No. of notices served for unpaved roads / broken roads today (Nos.)	
		Total Fine imposed on unpaved roads / broken roads today (lakhs)	
		No. of FIRs on sites of unpaved roads / broken roads (Nos.)	
		No. of prosecutions initiatives on sites of unpaved roads / broken roads (Nos.)	

# Road Dust Control

6.	Road Maintenance		Total no. of number of road patches/ potholes repaired (No.)	
			Area of road patched/ potholes filled today (Sqm)	
			Area paved today (Sqm)	
			No. of Roads Maintained under one road one zone every week (today)	
			Location of Roads Maintained under one road one zone every week (today)	
			Road Length Maintained under one road one zone every week (today)	
			Road length converted into cemented road in industrial area today (km)	
7.	Road Side/Drain Side Greening	Area greened today(Sqm)		
		No. of saplings planted today (Nos.)		

# Construction and Demolition Dust Control

S.No.	Domain	Data requirement	Data point
1.	<b>Dust Violation at C&amp;D Sites</b>	<ul style="list-style-type: none"> <li>• No. of inspections conducted today (Nos.)</li> <li>• No. of sites found defaulting today (Nos.)</li> <li>• No. of notices/ challans issued today (Nos.)</li> <li>• Amount of fine imposed today (Lakhs)</li> <li>• Amount of fine collected today (Lakhs)</li> <li>• No. of FIR filed today (Nos.)</li> <li>• No. of prosecutions initiated today (Nos.)</li> <li>• No. of Closure done today</li> </ul>	
2.	<b>Unauthorized operation of DG sets at C&amp;D sites</b>	<ul style="list-style-type: none"> <li>• No. of inspections conducted today (Nos.)</li> <li>• No. of sites found using unauthorized DG sets today (Nos.)</li> <li>• No. of notices/ challans issued for using unauthorized DG sets today (Nos.)</li> <li>• Amount of fine imposed for using unauthorized DG sets today (Lakhs)</li> <li>• Amount of fine collected for using unauthorized DG sets today (Lakhs)</li> <li>• No. of FIR filed today for using unauthorized DG sets today (Nos.)</li> <li>• No. of Closure done today</li> <li>• No. of prosecutions initiated today for using unauthorized DG sets today (Nos.)</li> </ul>	

# Construction and Demolition Dust Control

3.	<b>Unauthorized operation of ReadyMix Plant</b>	• No. of inspections conducted today (Nos.)	
		• No. of sites found using unauthorized ready-mix plant today (Nos.)	
		• No. of notices/ challans issued for unauthorized operation of ready-mix plant today (Nos.)	
		• Amount of fine imposed for unauthorized operation of ready-mix plant today (Lakhs)	
		• Amount of fine collected for unauthorized operation of ready-mix plant today (Lakhs)	
		• No. of FIR filed today for unauthorized operation of ready-mix plant today (Nos.)	
		• No. of Closure Done	
		• No. of prosecutions done today for unauthorized operation of ready-mix plant initiated (Nos.)	
4.	<b>Illegal C&amp;D waste Dumping</b>	• No. of sites inspected today (Nos.)	
		• No. of sites found defaulting today (Nos.)	
		• No. of notices/ challans issued today (Nos.)	
		• Amount of fine imposed today (Lakhs)	
		• Amount of fine collected today (Lakhs)	
		• No. of FIR filed today (Nos.)	
		• No. of prosecutions initiated today (Nos.)	

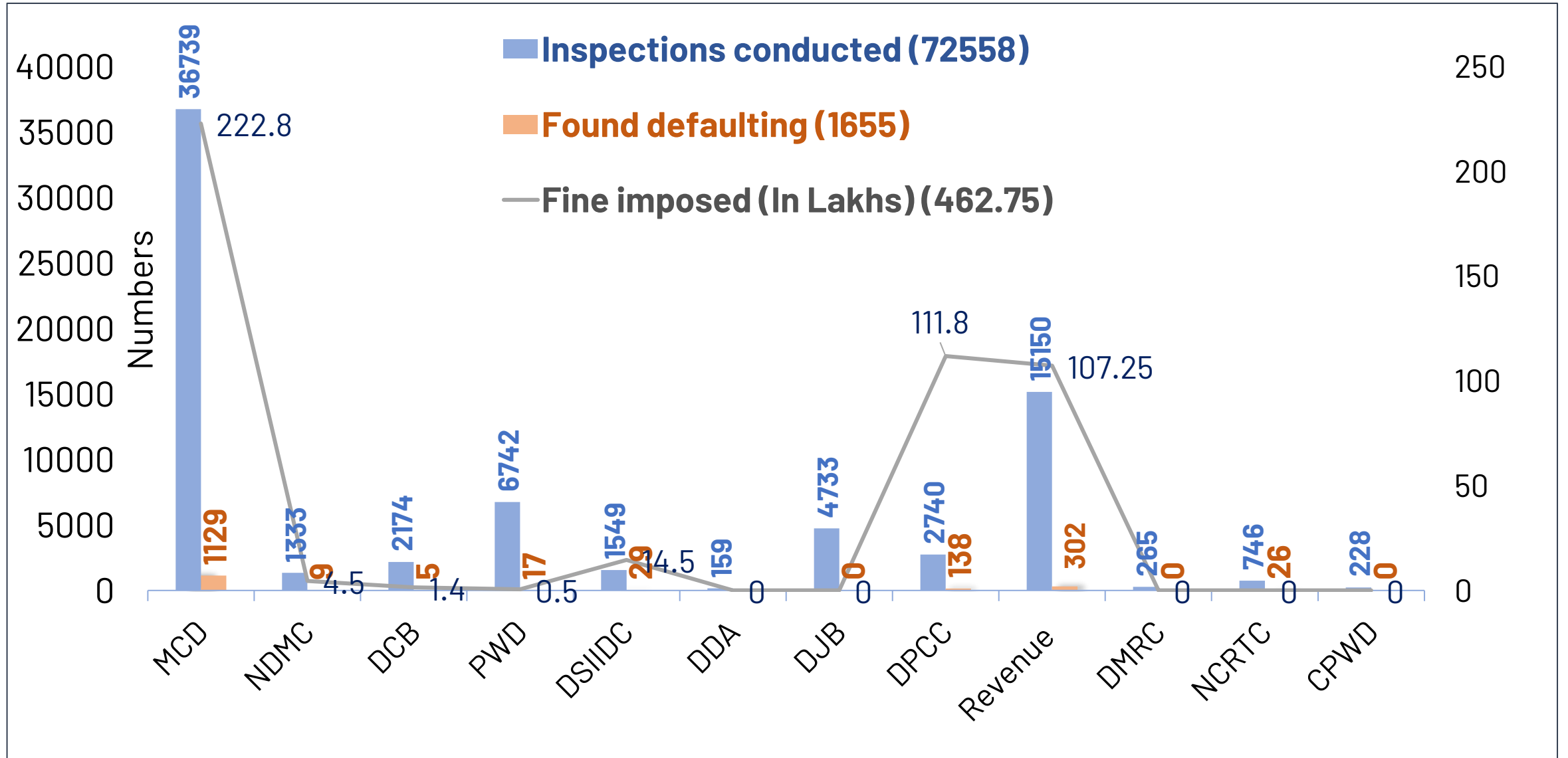


# Construction and Demolition Dust Control

5.	<b>Deployment of anti-smog gun at C&amp;D sites</b>	• Total No. of Construction Sites Inspected	
		• No. of Construction sites deployed anti- smog gun	
		• No. of anti- smog gun deployed at construction sites	
6.	<b>Deployment Of Anti Smog Guns At High Rise Buildings</b>	• No. of buildings on which anti- smog gun is installed as on today	
7.	<b>C&amp;D waste lifted</b>	• Quantity of C&D waste lifted today (MT)	
		• Quantity of C&D waste delivered to C&D waste processing sites today (MT)	

# Enforcement

Period : Oct, 2022 to Sept, 2023



# 02

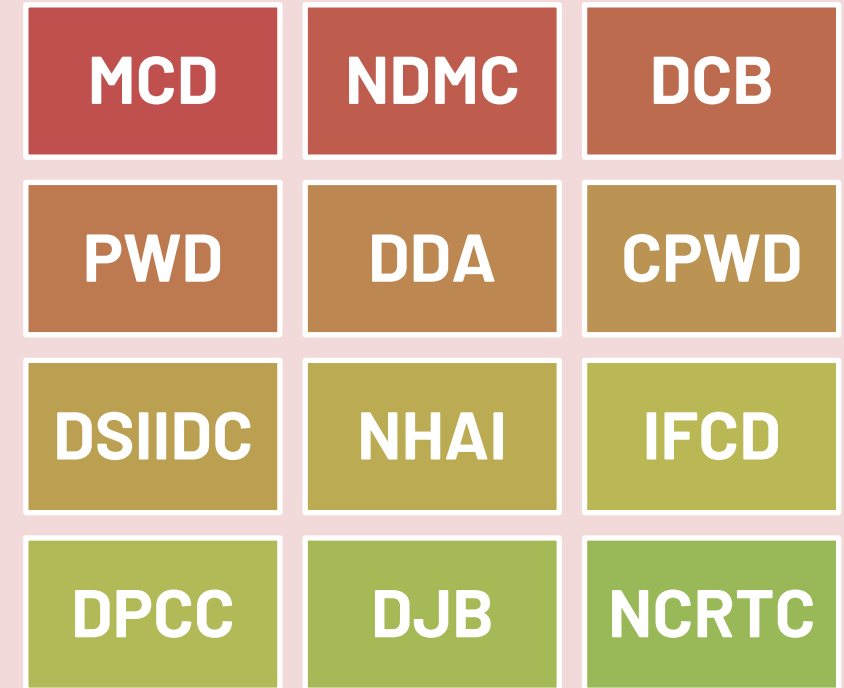
## Abatement of air and dust pollution from roads and open areas

| PWD | DCMs | DPCC | ULBs | SLC



# Enforcement of dust control measures from roads and open areas

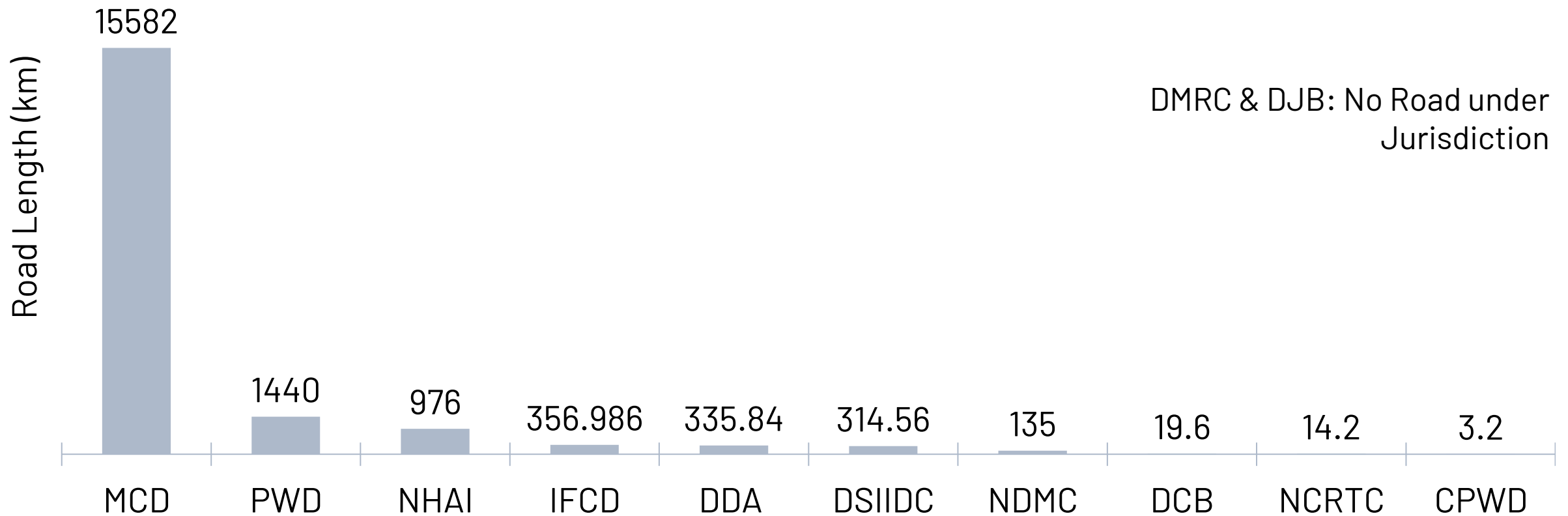
- **Dust Control and Management cells** constituted by 12 road owning agencies and stakeholder departments under the direction of CAQM.
- **Monitoring** optimum utilization of road sweeping machines, scientific disposal of dust collected in designated sites/ landfills, water sprinkling to suppress dust 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.**



# Action taken Report by all Dust Control Management Cells (DCMCs)

## Road length under jurisdiction as on August, 2023

Total Road Length: 19177.386 Km

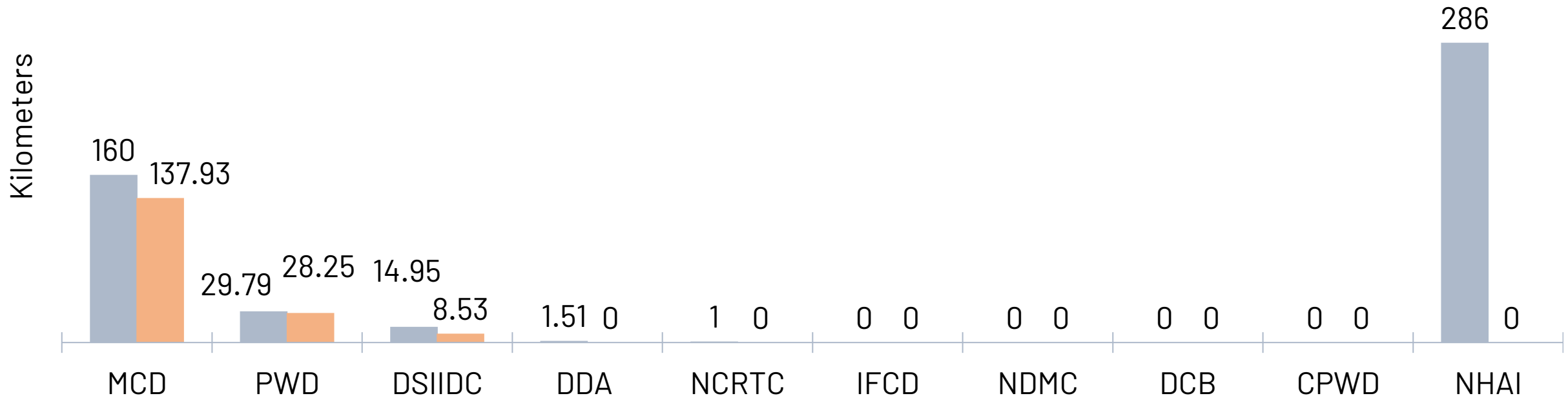


# Action taken Report by all Dust Control Management Cells (DCMCs)

## Non-paved/open road sides

- Road Length of non paved road side as on Jan, 2023 (493.25 Km)
- Road Length Paved during Jan, 23- Aug , 23 (174.71 Km)

**NHAI:** 78 Km Delhi Mumbai Express way + 46 Km Gurgaon Pataudi Road also made operational during the period

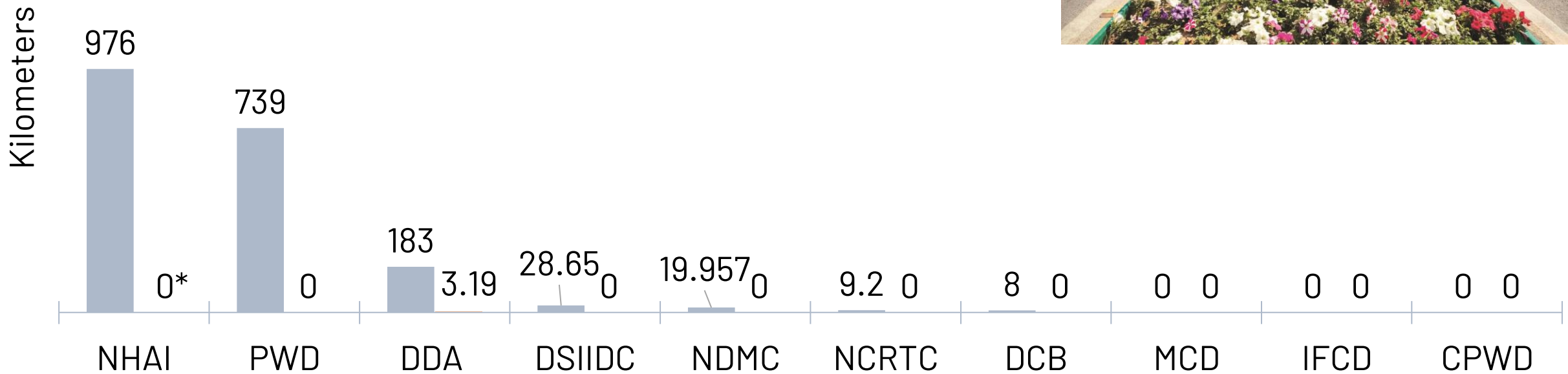


# Action taken Report by all Dust Control Management Cells (DCMCs)

## Central verges

- Length of Central Verges as on august, 2023 (1963.807 Km)
- Length of Central Verges to be greened as on august, 23 (3.19 Km)

\* 722 km Regularly greened and maintained by NHAI

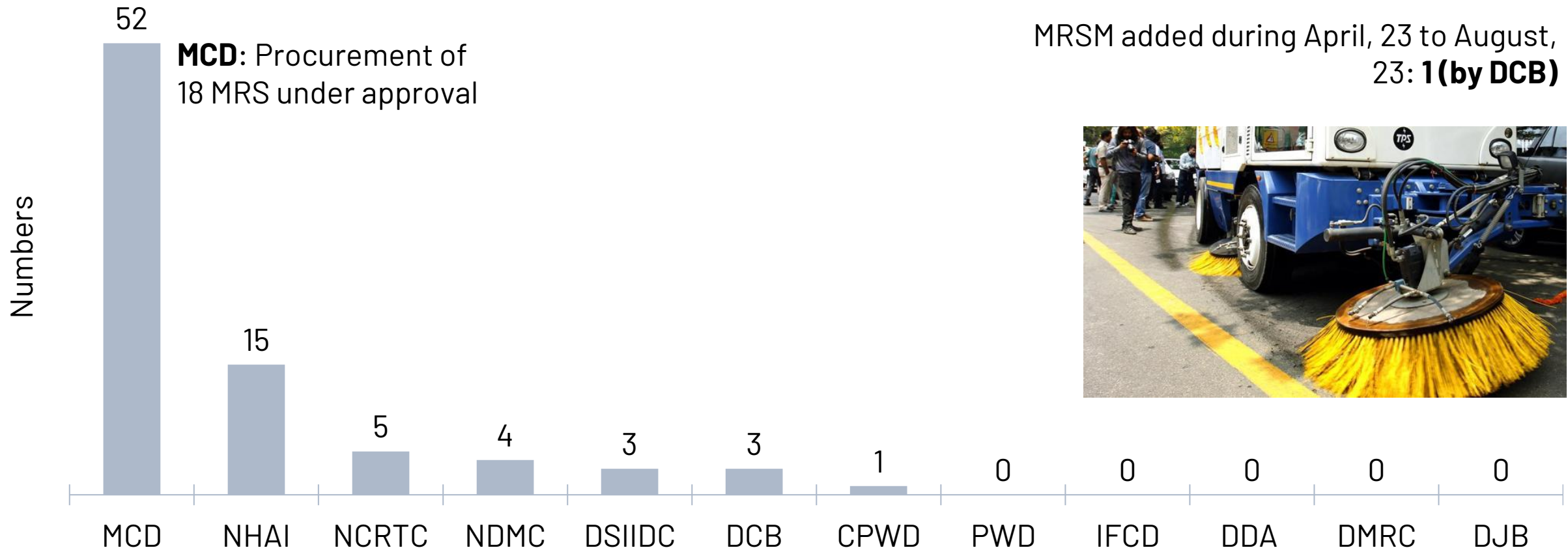


# Action taken Report by all Dust Control Management Cells (DCMCs)

## MRSM deployed as on 31<sup>st</sup> Aug, 2023

Total MRSM : 83

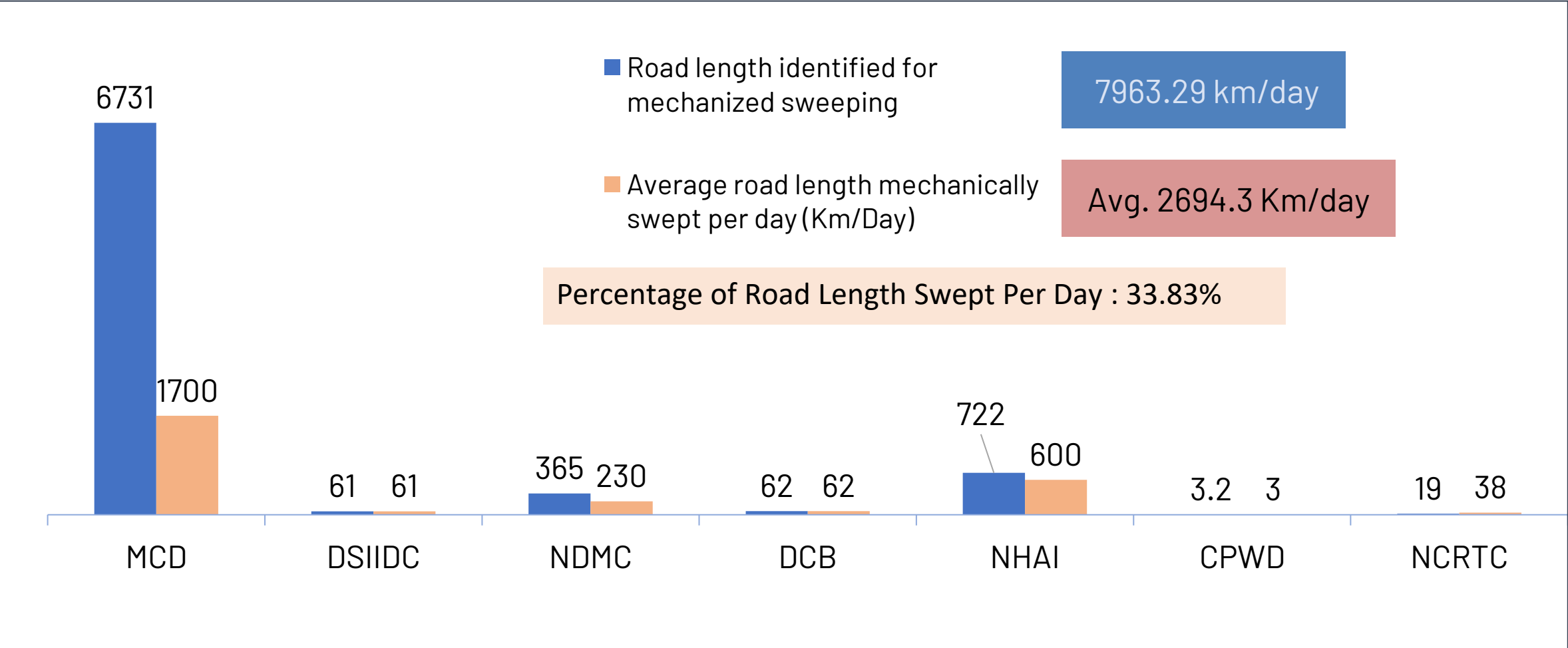
MRSM added during April, 23 to August, 23: **1 (by DCB)**





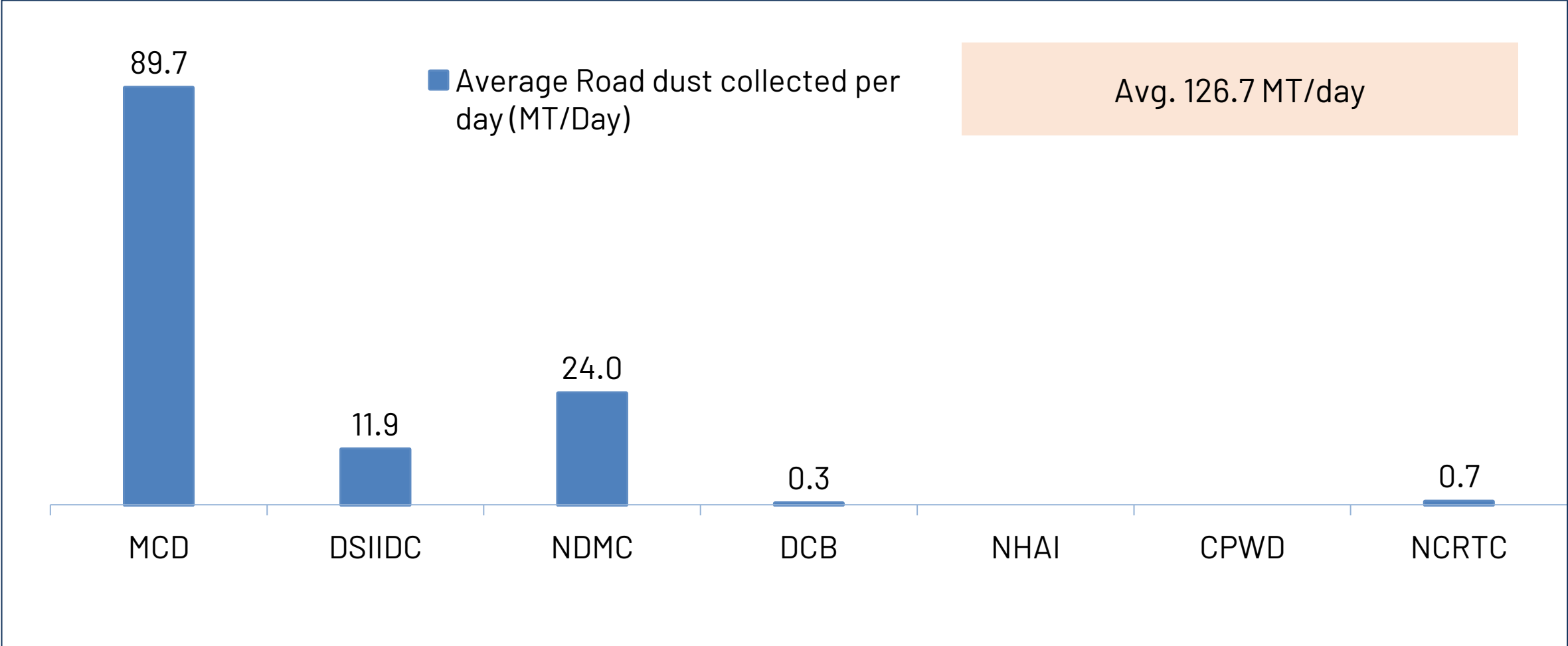
# Deployment of MRS machines

## MRSM: road length identified for mechanized sweeping and road length swept for Aug 2023



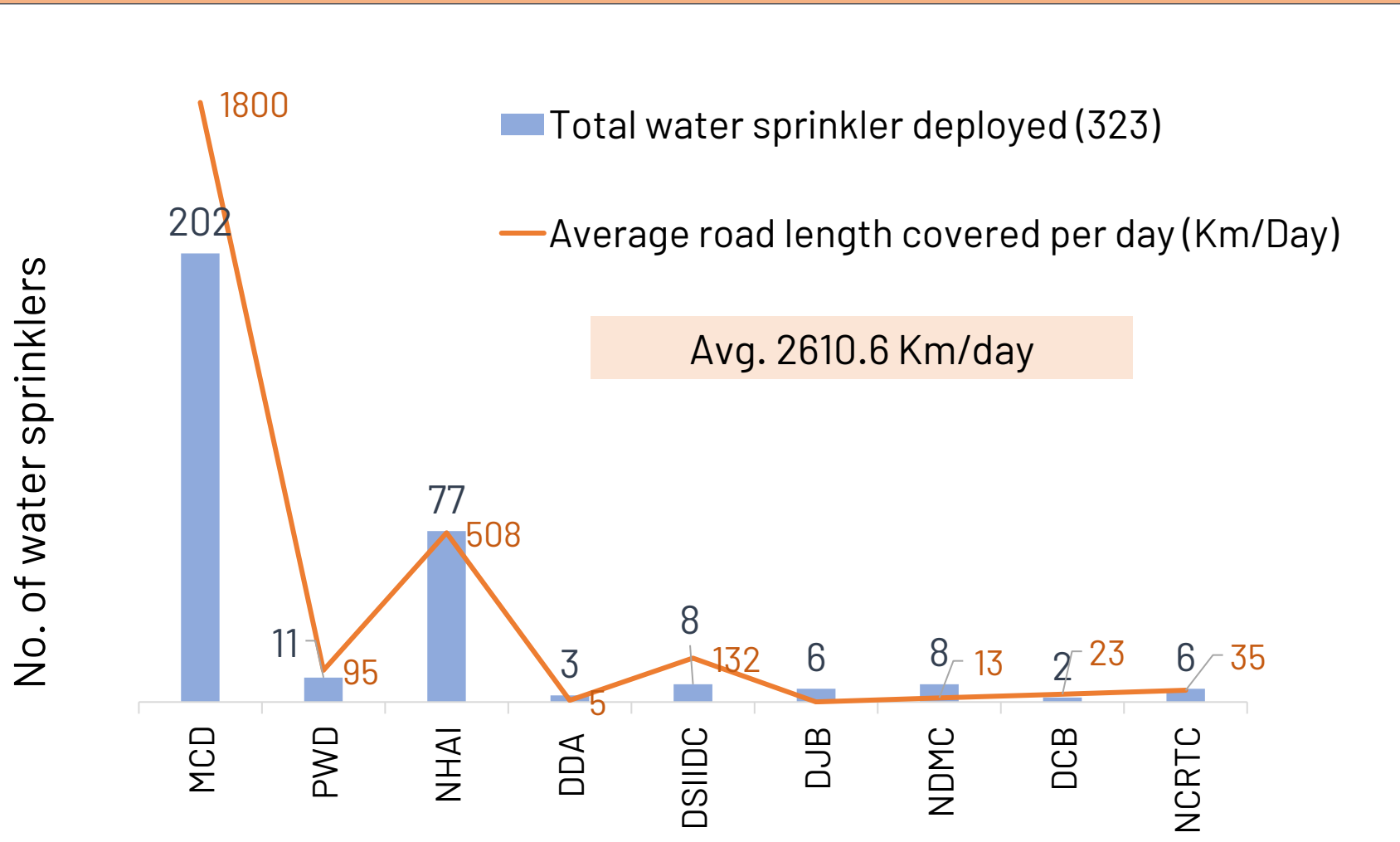
# Deployment of MRS machines

## MRSM: dust collected for Aug 2023



# Deployment of Water Sprinklers

## WS: Length and water sprinkled During Aug 2023



Dust suppressants trials done by ULBs



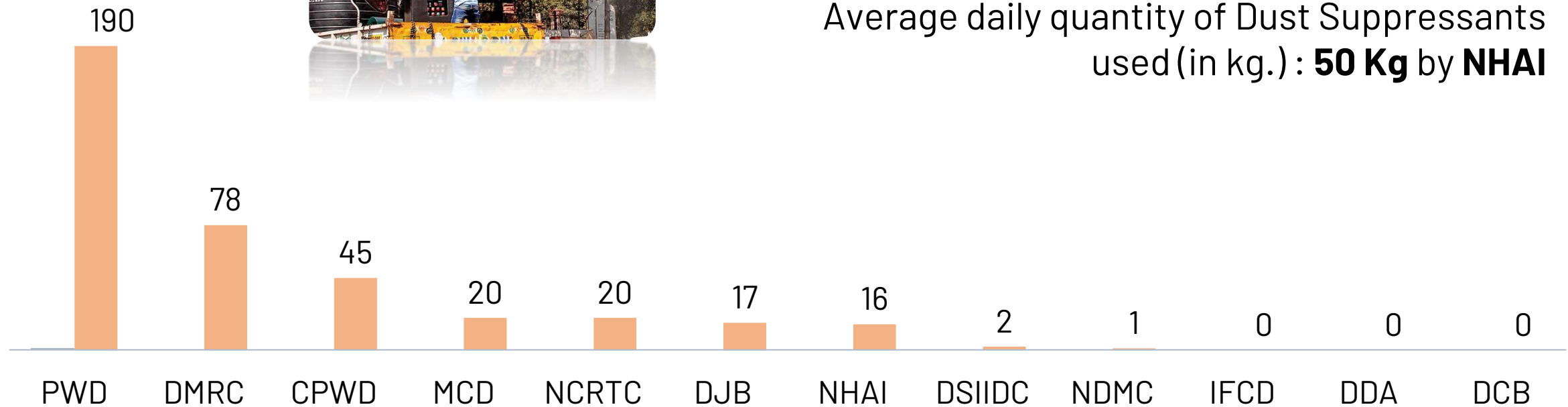
Water Sprinkler Capacity range : 1000- 9000 Ltrs

# Action taken Report by all Dust Control Management Cells (DCMCs)

## Anti-smog guns [389]



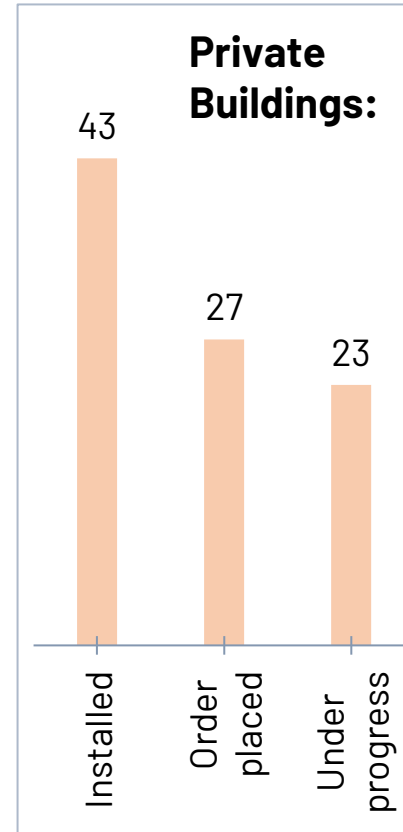
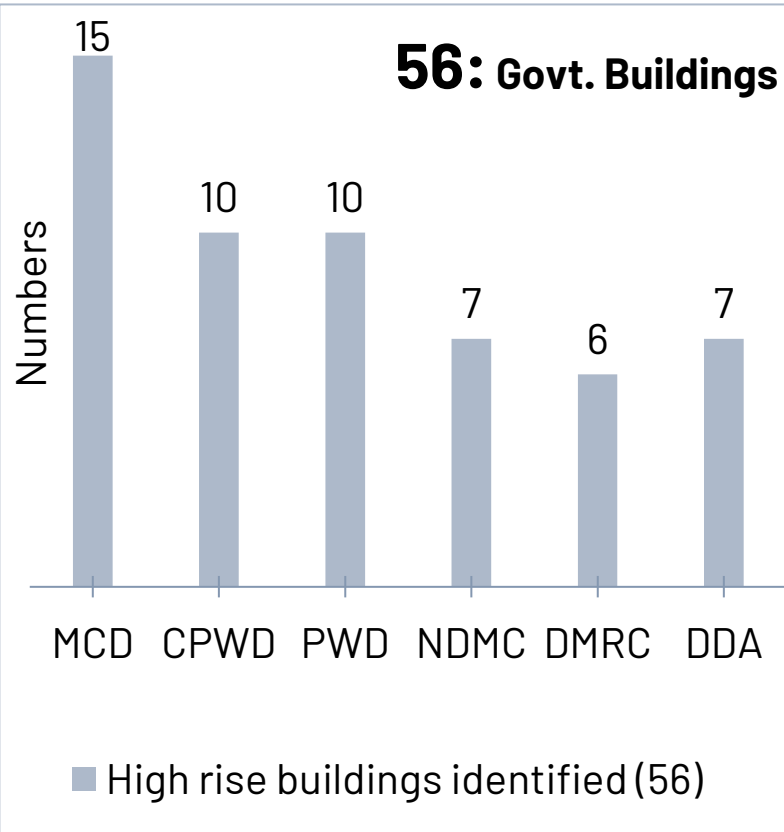
■ Anti-Smog guns deployed as on 31st August, 23 (389)



Average daily quantity of Dust Suppressants used (in kg.) : **50 Kg** by **NHAI**

# Deployment of ASGs on High Rise Building

## Installed at 47 Govt. high rise buildings



- More than 90 high-rise govt buildings identified so far
- Hotels, shopping complexes etc. directed by DPCC.



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

# Funding to MCD and PWD for MRS | WS | ASGs

## Implementation of NCAP

- National Clean Air Program (NCAP) launched on 10<sup>th</sup> 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

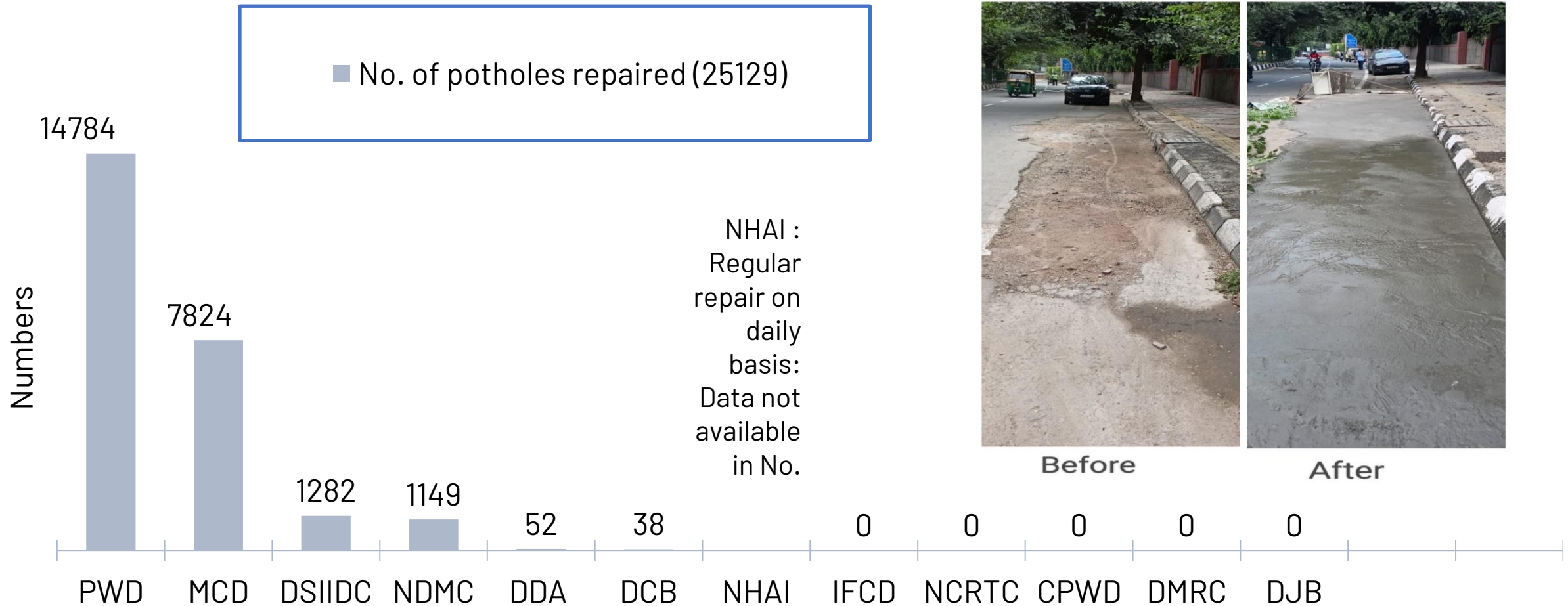
Funding to PWD for procurement of Mobile Anti Smog Gun machines : Approx. Rs 28.59 Cr from plan scheme **Pollution Control in Emergency Measures** Of Department of Environment

# Machines in summary



# Action taken Report by all Dust Control Management Cells (DCMCs)

## Road patches/potholes repaired during Jan, 2023 to Aug, 2023







Department of Environment  
Govt. of NCT of Delhi



Delhi Pollution Control  
Committee



**Thank you**