



Department of Environment Govt. of
NCT of Delhi

Review of Green War Room by Chief Secretary, GNCTD

04.10.2023

Green Delhi Control Room (Green War Room)

- Pollution monitoring and mitigation war room mechanism
 - Cross functional collaboration and efficient communication
 - Data analysis and visualization
 - Drive informed decision making and problem solving
- Personnel: (3 junior engineers – Night Shift: 1 on rotational basis for fire).

Functions

1. **Compilation and release of Daily Bulletins**

- State Environmental Health Bulletins
- Daily Bio-Mining Reports
- Daily Air Pollution Mitigation Action Taken Reports

2. **Compilation of monthly and quarterly reports for CAQM**

3. **Monitoring of Green Delhi App**

- Generation of Department and Offence Wise Complaints Report- Compiles all resolved, pending and overdue/notified complaints. Prepared and shared to officials through mails and WhatsApp on daily basis
- Liaisoning with nodal officers of 27 departments and facilitating resolution within prescribed timelines

4. **Monitoring of real time ambient air quality:** Daily Air Quality Status of Delhi (AQI).

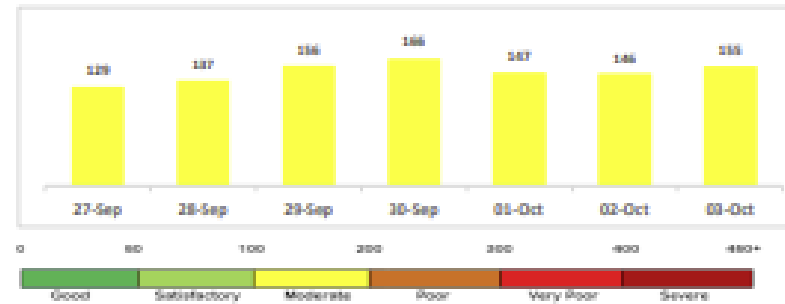
5. **NASA FIRMS-** Monitor live biomass burning report on NASA FIRMS SOFTWARE.

6. **Social Media Engagement : Monitoring of Twitter complaints and creating awareness**

1. Compilation and release of Daily Bulletins

GOVT. OF NCT OF DELHI
DEPARTMENT OF ENVIRONMENT AND FOREST
DELHI STATE ENVIRONMENTAL HEALTH BULLETIN
Date: 03.10.2023

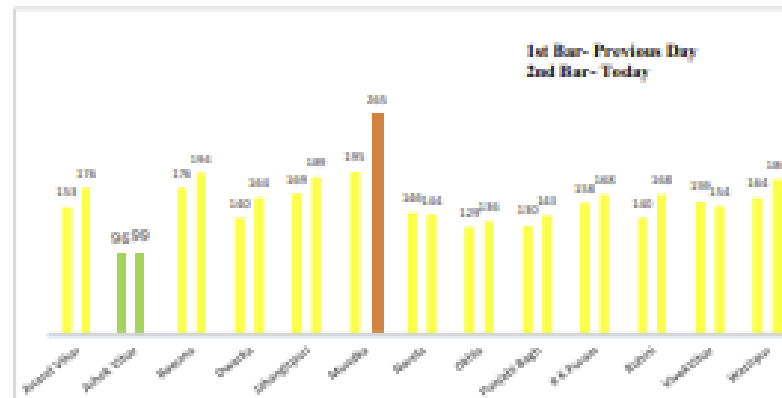
I. AQI



- Today's Air Quality is in the "Moderate" Category (AQI 155)
- Predominant Pollutant: PM_{2.5}
- Surface Wind Direction- Northwest
- Wind Speed: 10-15 kmph

II. PREDICTION: Air quality is likely to remain in "Moderate" category for the next 3 days.

III. AQI COMPARISON IN 13 HOTSPOTS:



IV. ACTION TAKEN ON AIR POLLUTING ACTIVITIES: SUMMARY

	Last 24hours	Previous day (01.09.2023)	Total Since (01.10.2022)
No. of Notices/ Challans issued	0	0	20768
Fine Imposed (in Rupees)	0	0	57894002
Amount of C and D waste lifted (in MT)	1042.42	1350	510837.54
Area of road patched (sq. m)	24	0	113162.37
Area Greened (sq.mt)	0	0	204674.95
Area paved (sq.mt)	0	0	9562.1702
Road length sprinkled (km)	613.65	494	537979.04
Road length swept (kms)	8179	7138	2558616.84
Amount of garbage removed (in MT)	11647.36	9580	3656042.288
Vehicular pollution: No. of Challans issued	4557	2618	1858568
Bio-decomposer (in acres)	0	0	4329
No. of 10/15 years old vehicles impounded	0	0	18766

Daily Bio-mining Status – Report on 02.10.2023

SLF Sites	Name of Nodal Officer & his Cell No.	Total Quantity Disposed Off (In MT)	Quantity of Inert Disposed Off (In MT)	Quantity of C & D Disposed Off (In MT)	Quantity of RDF Disposed Off (In MT)
Bhalaswa	Sh. Phinnoo Ram Meena (EE) 9717787046	10871.636	8240.924	2042.162	588.55
Gazipur	Sh. Moola Singh (EE) 9717787761	2192	2192	0	0
Okhla	Sh. Manish Jain (EE) 9717787673	4545.395	3906.1	439.16	200.135
Total		17609.031	14339.024	2481.322	788.685

2. Compilation of monthly and quarterly reports for CAQM

1. Dust control management cells report (DCMC report)
2. C&D report
3. Policy to abate air pollution in Delhi NCR Report
4. Quarterly Safeguarding And Enforcement Report (V7 report).
5. Industrial Inspection summary report



3. Green Delhi Application

- ❑ A citizen friendly IT tool available both on mobile (Android & Apple) and web versions, is developed by Delhi Pollution Control Committee (DPCC) and NIC
- ❑ Single platform for redressal of grievances of citizens of Delhi with regard to various offenses related to pollution such as:
 - Air pollution, Noise pollution, Solid waste and Plastic waste
- ❑ Stakeholders : 27 different departments (Government of NCT of Delhi / Government of India)
- ❑ Launched by Government of Delhi on 29.10.2020
- ❑ Relunched on 03.10.2023
- ❑ Downloads: Around 72K+

Categories of grievances listed on Green Delhi Application

1. Potholes on Roads
2. Illegal dumping of Garbage on road sides/ vacant land
3. Illegal Dumping of C & D Waste on road side/ public land/flood plain of Yamuna
4. Air Pollution due to industries
5. Air pollution from the sources other than Industry
6. Burning of Biomass/garden waste
7. Burning of garbage/plastic waste
8. Dust Pollution due to Construction/ Demolition activity
9. Road Dust
10. Noise pollution from the sources other than Industry
11. Visible smoke from vehicle exhaust
12. Mfg. of banned SUP items in Industrial Area
13. Mfg. of banned SUP items in non Industrial Area
14. Sale and Storage of banned SUP items
15. Obstruction of pavements causing vehicular congestion.
16. Old vehicles which have completed registered life(end of life vehicle).

Prescribed timelines for resolution of Categories of grievances

Offence	SLA Time
Air Pollution due to industries	3 days
Air pollution from the sources other than Industry	2 days
Burning of Biomass/garden waste	2 Hrs
Burning of garbage/plastic waste	2 Hrs
Dumping of Construction & Demolition Waste	2 Days
Dust Pollution due to Construction/ Demolition activity	2 Days
Illegal dumping of Garbage on road sides/ vacant land	2 Days
Mfg. of banned SUP items in Industrial Area	2 Days
Mfg. of banned SUP items in non Industrial Area	2 Days
Noise pollution from the sources other than Industry	2 Days
Obstruction of pavements causing vehicular congestion	2 Days
Old vehicles which have completed registered life [End of Life Vehicles]	2 Days
Potholes on Roads	7 Days
Road Dust	2 Days
Sale and Storage of banned SUP items	2 Days
Visible smoke from vehicle exhaust	2 Days

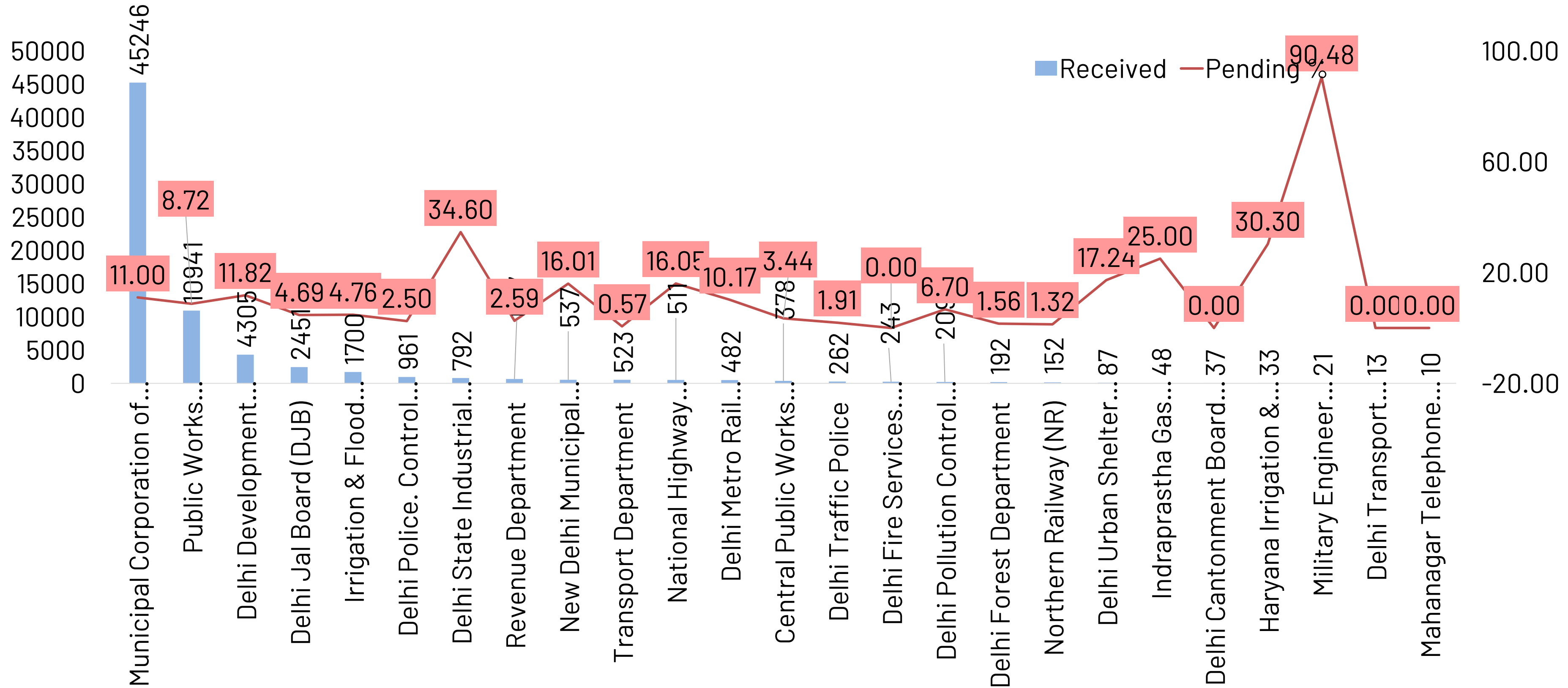
Grievance redressal status (2023)

- A total of 70791 complaints received this year till 04.10.2023
- 63527 (89.74 %) are resolved.
- 7264 (10.26 %) complaints are pending.



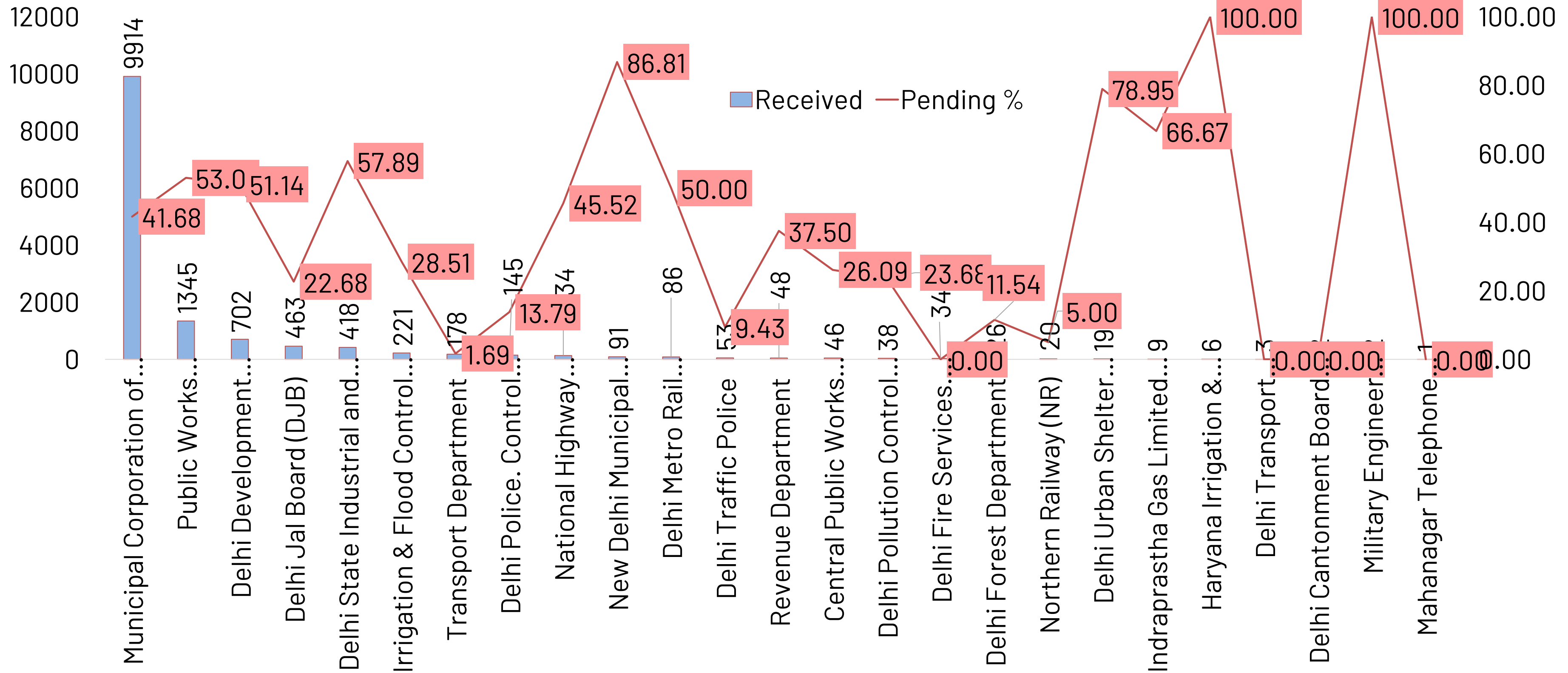
Department wise redressal status

Period: till date



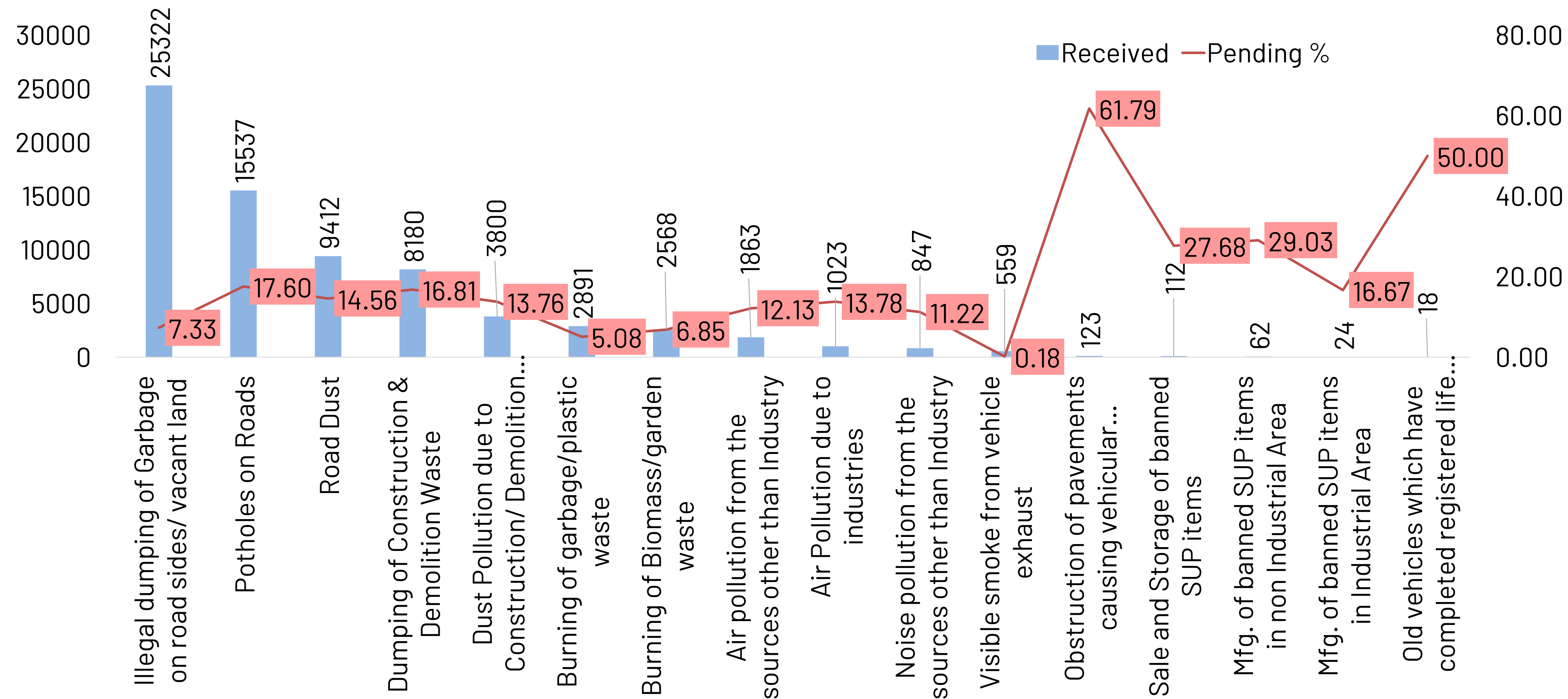
Department wise redressal status

Period: Jan, 23 to till date



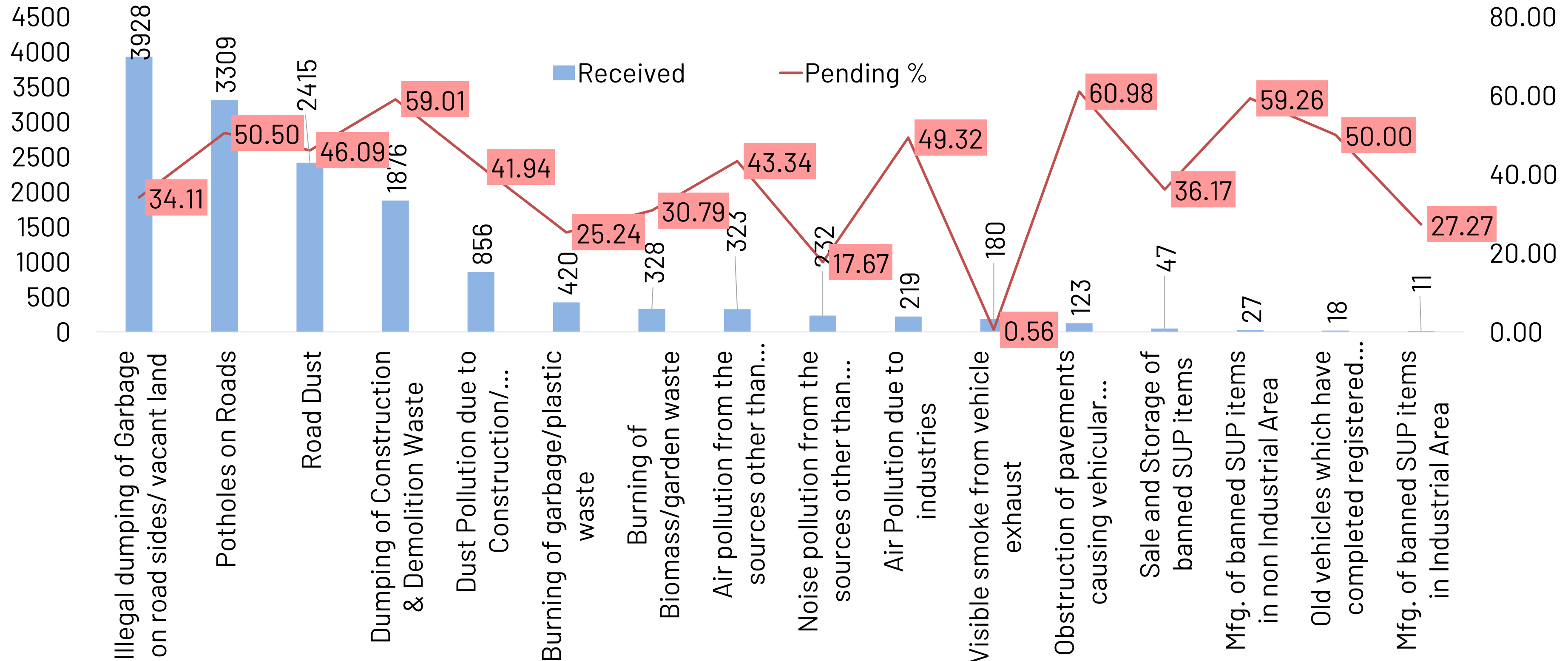
Grievance wise redressal status

Period: till date



Grievance wise redressal status

Period: Jan, 23 to till date



Pending Don't know Department complaints of Green Delhi App up to 04.10.2023 (1505)

S. No	Offence	Number of Complaints
1	Potholes on Roads	700
2	Illegal dumping of Garbage on road sides/ vacant land	254
3	Road Dust	170
4	Dumping of Construction & Demolition Waste	161
5	Dust Pollution due to Construction/ Demolition activity	96
6	Burning of Biomass/garden waste	46
7	Air pollution from the sources other than Industry	27
8	Noise pollution from the sources other than Industry	21
9	Burning of garbage/plastic waste	16
10	Air Pollution due to industries	8
11	Sale and Storage of banned SUP items	5
12	Mfg. of banned SUP items in non Industrial Area	1

Issues facing GWR

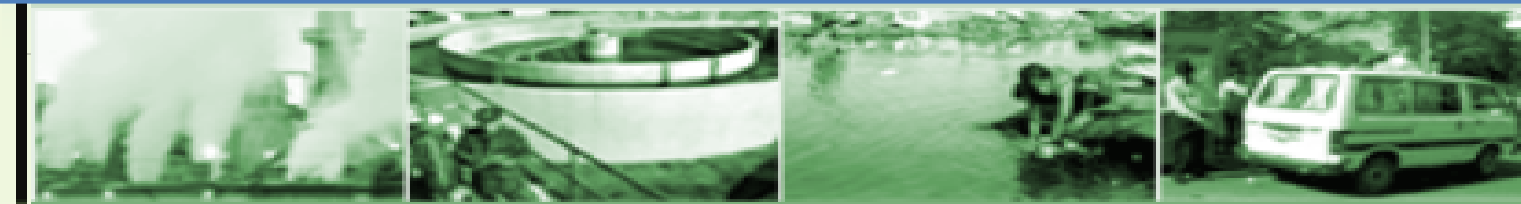
- ❑ Some Departments like DDA, CPWD, North DMC not resolving complaints timely.
- ❑ Some complaints are forwarded multiple times and no departments are taking responsibility to resolve these complaints. Therefore transferred to “Don’t know the Department” category. No of complaints are increasing in “Don’t know department” and unresolved.
- ❑ Reduction in complaints lodged

4. Real time ambient Air Quality Data of 26 stations of Delhi



DELHI POLLUTION CONTROL COMMITTEE (Government of N.C.T. of Delhi)

4th Floor, I.S.B.T. Building, Kashmere Gate, Delhi - 110006
Website : <http://www.dpcc.delhigovt.nic.in>



REAL TIME AMBIENT AIR QUALITY DATA

Pooth Khurd, Bawana || Nehru Nagar || Jawaharlal Nehru Stadium || Dr. Karni Singh Shooting Range || Major Dhyan Chand National Stadium Patparganj || Vivek Vihar || Sonia Vihar || Narela || Najafgarh || Rohini || Okhla Phase-2 || Ashok Vihar || Wazirpur || Jahangirpuri || Dwarka, Sector 8 Alipur || Pusa || Sri Auribindo Marg || Mundka || Anand Vihar || Mandir Marg || Punjabi Bagh || R.K. Puram || IGI Airport || Civil Lines || Main Index

Date : Sunday, June 27, 2021 **Time (IST) :** 01:16 PM

PARTICULATE CONCENTRATION & METEOROLOGICAL CONDITION

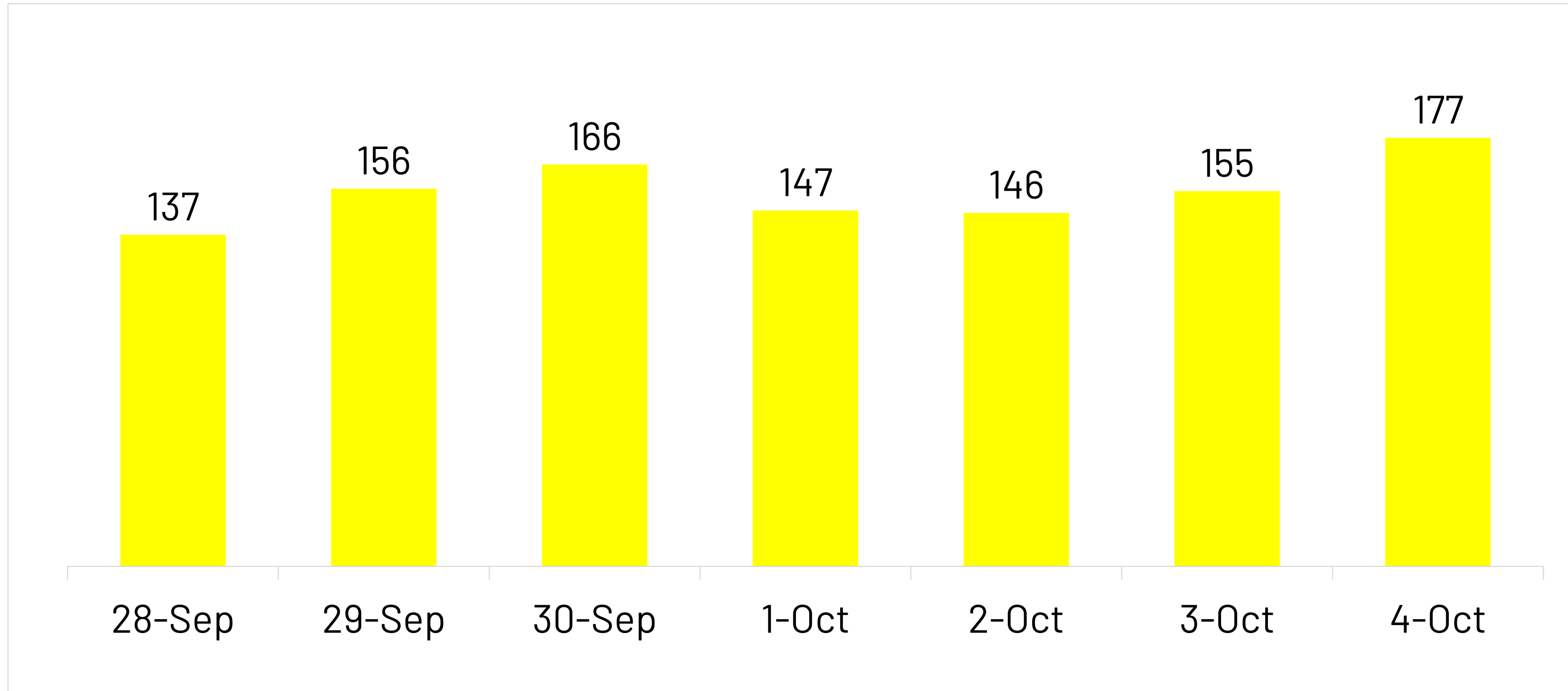
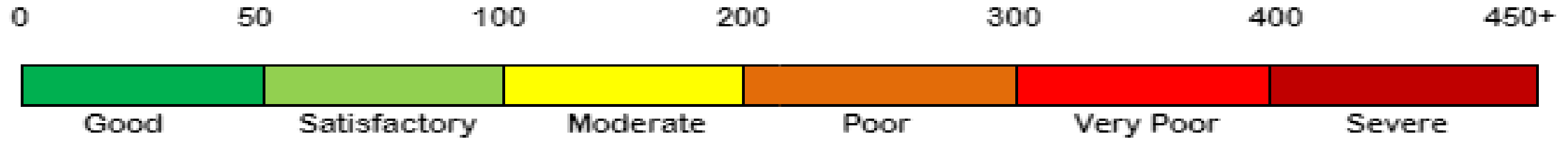
Air Quality Monitoring Station : Pooth Khurd, Bawana

Current Air Pollution Levels

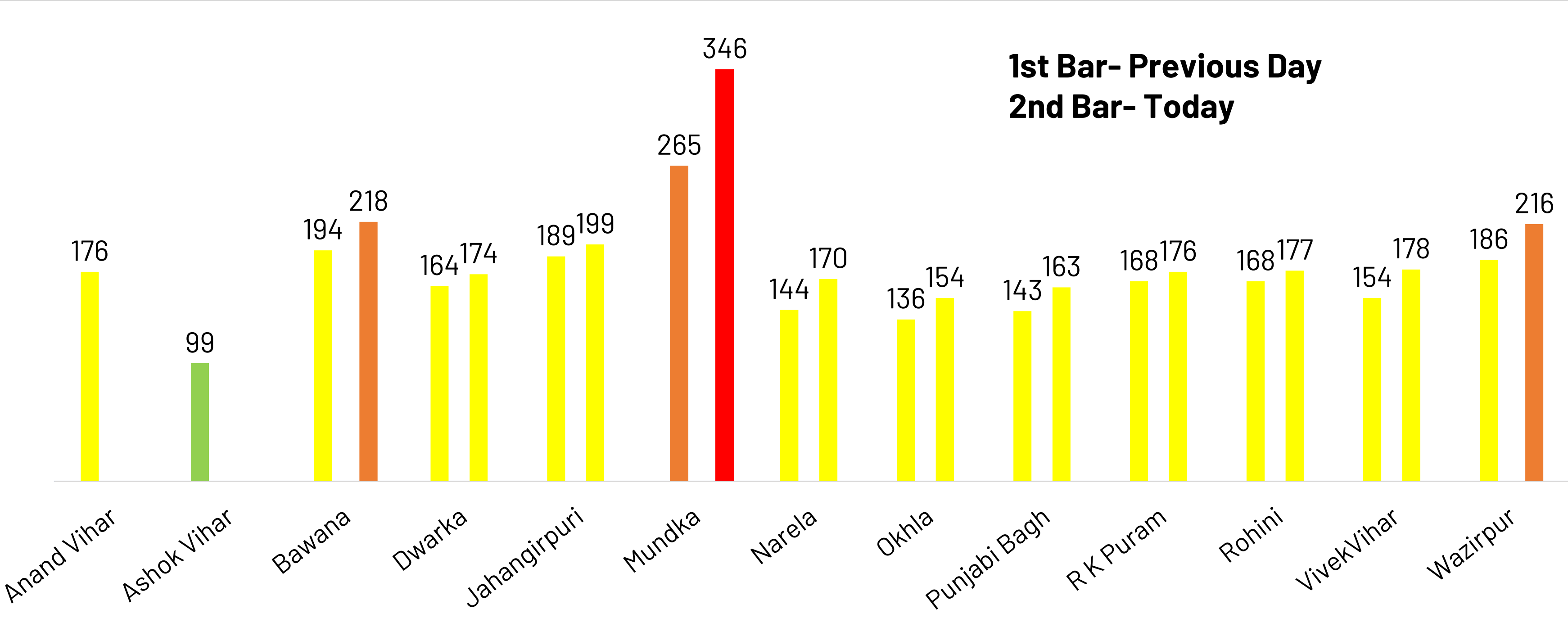
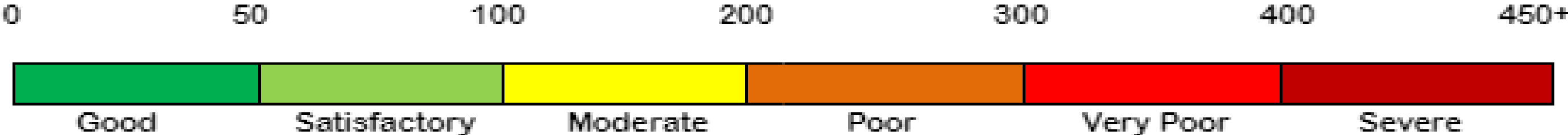
Advance Search

Parameters	Date	Time (IST)	Concentration	Prescribed Standard	Remarks	
Ambient Temperature	Monday, June 28, 2021	12:30:00	40.8 °C	-		Line Graph Bar Graph
Barometric Pressure	Monday, June 28, 2021	12:30:00	981.2 hPa	-		Line Graph Bar Graph
Particulate Matter < 10 µg	Monday, June 28, 2021	12:30:00	µg/m ³	100 µg/m ³		
Particulate Matter < 2.5 µg	Monday, June 28, 2021	12:30:00	µg/m ³	60 µg/m ³		
Relative Humidity	Monday, June 28, 2021	12:30:00	38.3 %	-		Line Graph Bar Graph
Solar Radiation	Monday, June 28, 2021	12:30:00	447.2 W/m ²	-		Line Graph Bar Graph
Rain	Monday, June 28, 2021	12:30:00	0.0 mm	-		
Horizontal Wind Speed	Monday, June 28, 2021	12:30:00	0.5 m/s	-		Line Graph Bar Graph
Wind Direction	Monday, June 28, 2021	12:30:00	88.2 Degrees	-		Line Graph Bar Graph

Air Quality Index



AQI COMPARISON IN 13 HOTSPOTS



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

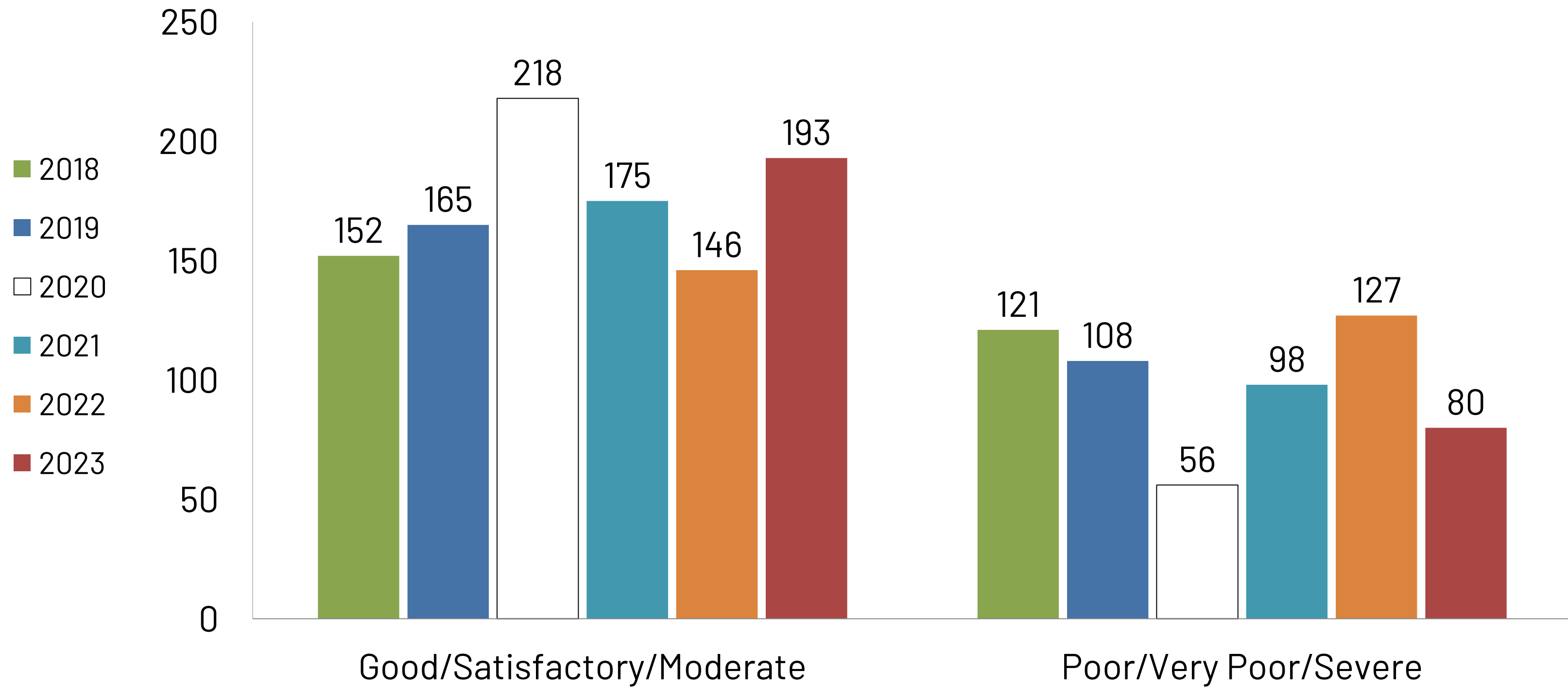
1. RRTS construction near metro station
2. C&D site on DDA land behind ISBT, Anand Vihar (between stretch Anand Vihar & Karkadooma)
3. C&D site behind Kaushambi ISBT by PWD
4. ISBT Terminal bus exit road; diesel bus congestion
5. Road traffic congestion at exit point of railway station
6. MCD unpaved 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)

Hotspot Name		MUNDKA	Nodal JEE (Sh. Raghvendra Rai : 8447089397)	
S. No.	Identified Sources of Pollution / Regarding	Actions which can be taken at this Hotspot	Concerned Departments	Concerned Officials
1	Construction of Urban Extension Road II (UER II) nearby monitoring station leading to huge dust emissions.	Dust Mitigation Measures be followed in construction of UER 2 and in operation of RMC Plants.	NHAI	Piyush Aggarwal (Project Manger)(7080480687)
2	Operation of RMC plant by the construction agency of UER II, nearby to the monitoring station.			Piyush Aggarwal (Project Manger)(7080480687)
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)	<p>Paving or putting interlocking on the shoulders of the Delhi Rohtak Highway.</p> <p>Removing potholes from the road through proper pavement.</p> <p>Mechanised removal of dust from the pavement.</p> <p>Water sprinkling on the unpaved shoulder and medians.</p> <p>Redesign and reconstruction of storm water drain along Delhi Rohtak Road starting from Maharaja Surajmal Stadium supplementary drain to Hiran Kudna as it is running beyond its capacity leading to its frequent choking.</p>	PWD MCD	<p><u>PWD Officers/ officials</u> Bichhitar Singh (Executive Engineer: 9599770085) Radheshyam Mishra (Assistant Engineer: 9873052137) Shantanu Garg (Junior Engineer: 7737319121)</p> <p><u>MCD officers/ officials</u> AK Jain (EE : 9717788637) Ashish Sharma (AE : 8929637594) Danish (JE: 7290029637) Vijay Kumar (ASI : 9711588414) Satish Shokeen (ASI: 9811025220) Shubhash (SI : 8527493782)</p>

Hotspot Name		MUNDKA	Nodal JEE (Sh. Raghvendra Rai : 8447089397)	
S. No.	Identified Sources of Pollution / Regarding	Actions which can be taken at this Hotspot	Concerned Departments	Concerned Officials
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 khera 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	Varun K Singh (Assistant Manager: 7042883571) Anand Sahu (Assistant Engineer: 9717601604) Arvind (Junior Engineer: 8510028834)
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	AK Jain (EE : 9717788637) Ashish Sharma (AE : 8929637594) Danish (JE: 7290029637) Vijay Kumar (ASI : 9711588414) Satish Shokeen (ASI: 9811025220) Shubhash (SI : 8527493782)

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

Period: Jan-Sept

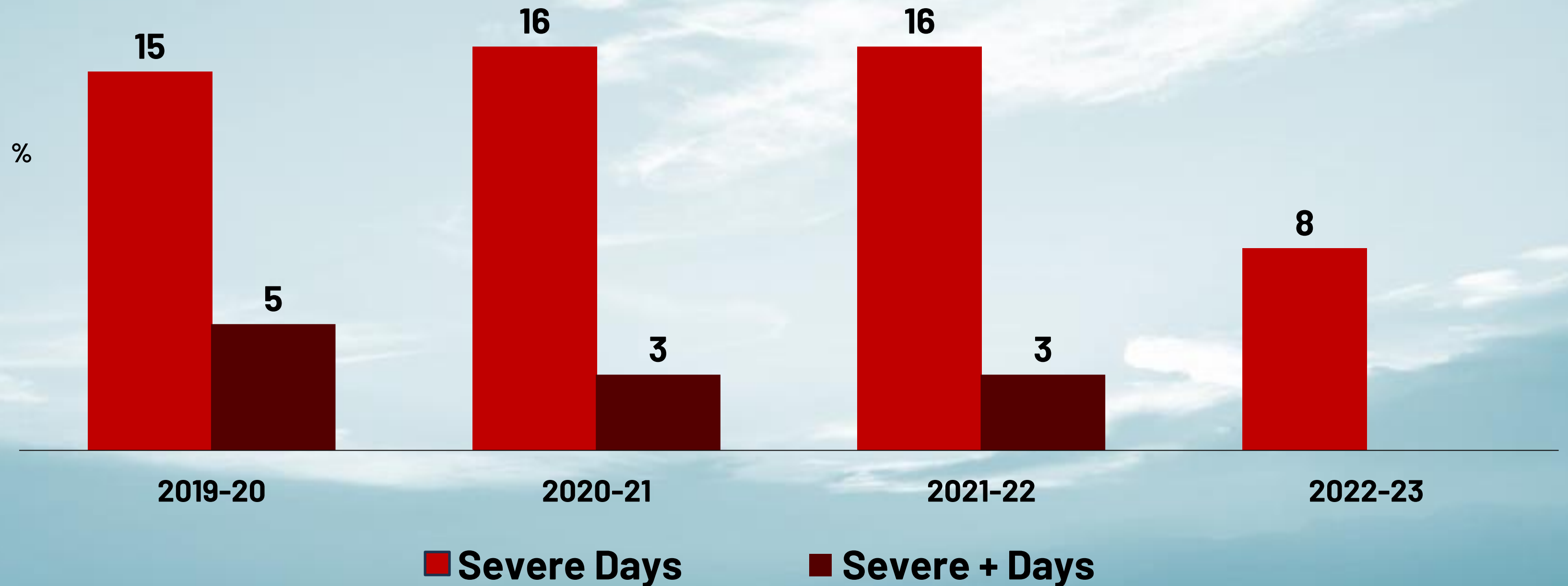


Days according to Air Quality Index in Delhi

(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



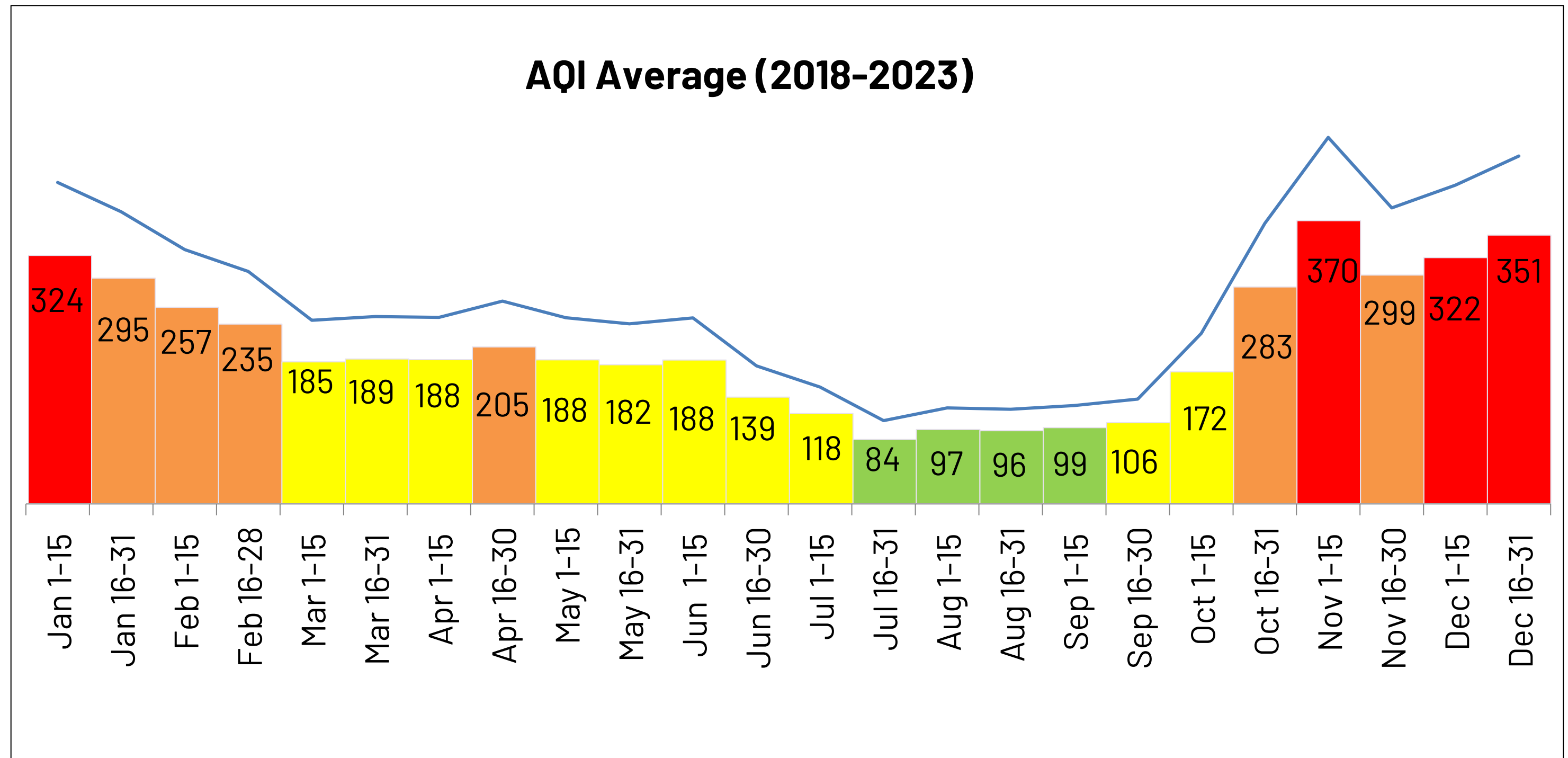
Air quality category

Satisfactory
AQI : 51-100

Moderate
AQI : 101-200

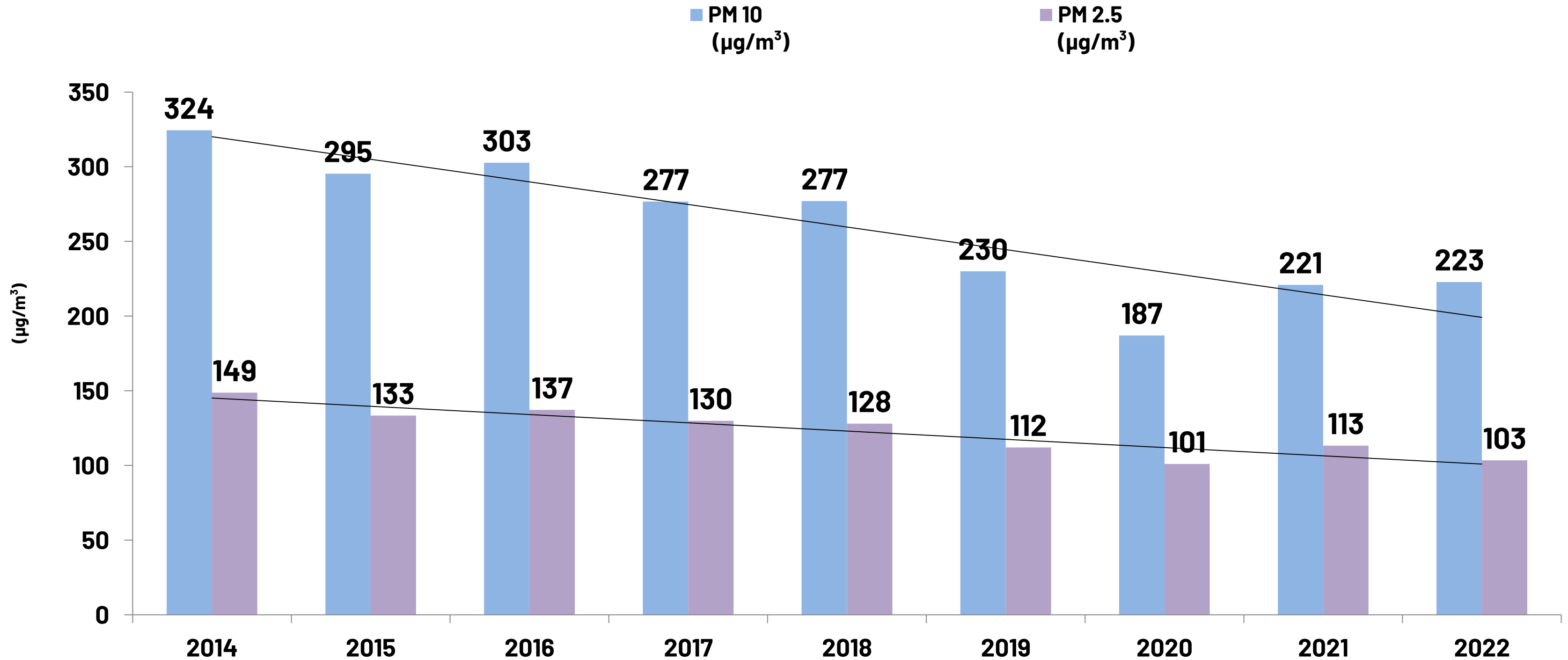
Poor
AQI: 201-300

Very Poor
AQI: 301-400



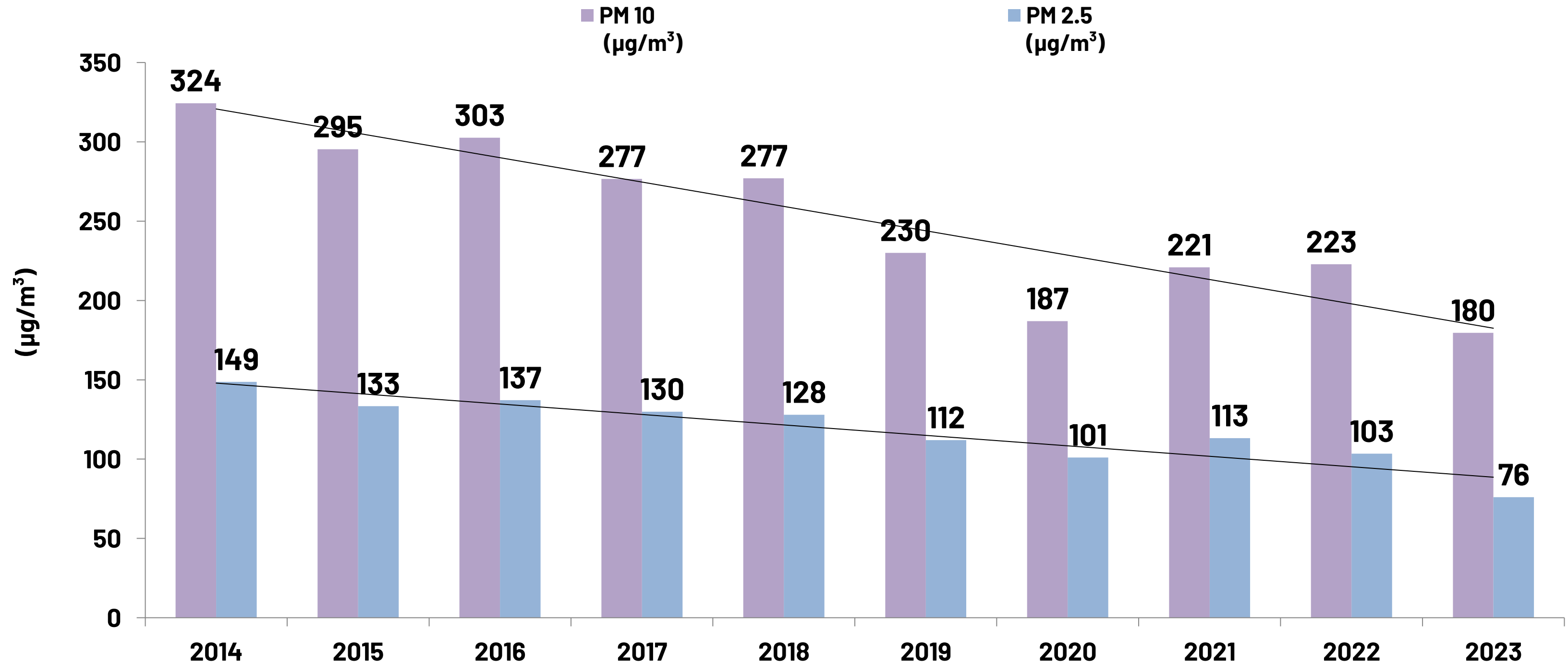
* AQI Average 16th Sep-31st Dec is for 2018-2022

DPCC CAAQMS Annual Average of PM (2014-2022)



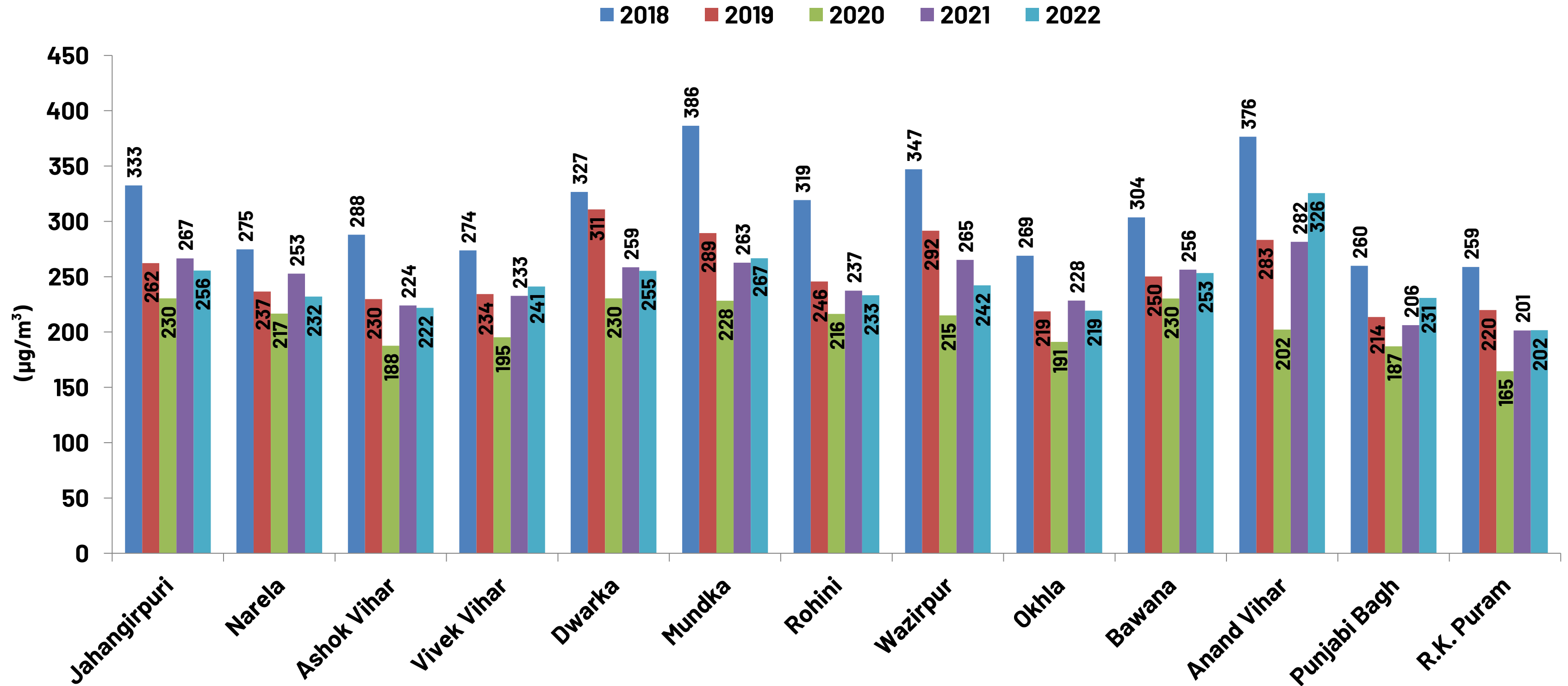
Reduction of PM10 & PM2.5 in 2022 wrt 2014 is 31%

DPCC CAAQMS Annual Average of PM 2014-2023(till Sept.)

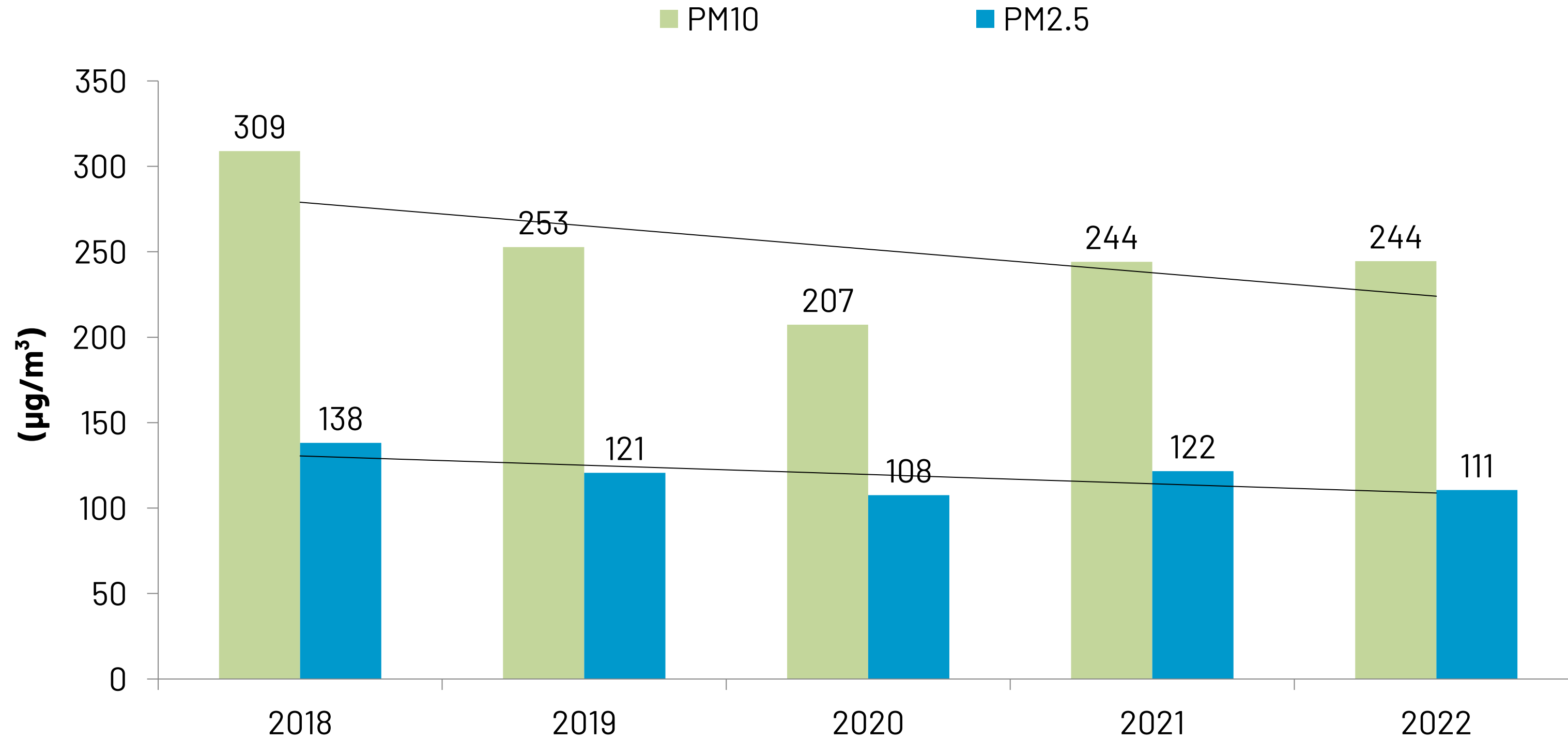


Reduction of PM10 in 2023 (till sept.) wrt 2014 is 45%
Reduction of PM2.5 in 2023 (till sept.) wrt 2014 is 49%

Annual Average of PM10 at 13 Hotspots (2018- 2022)



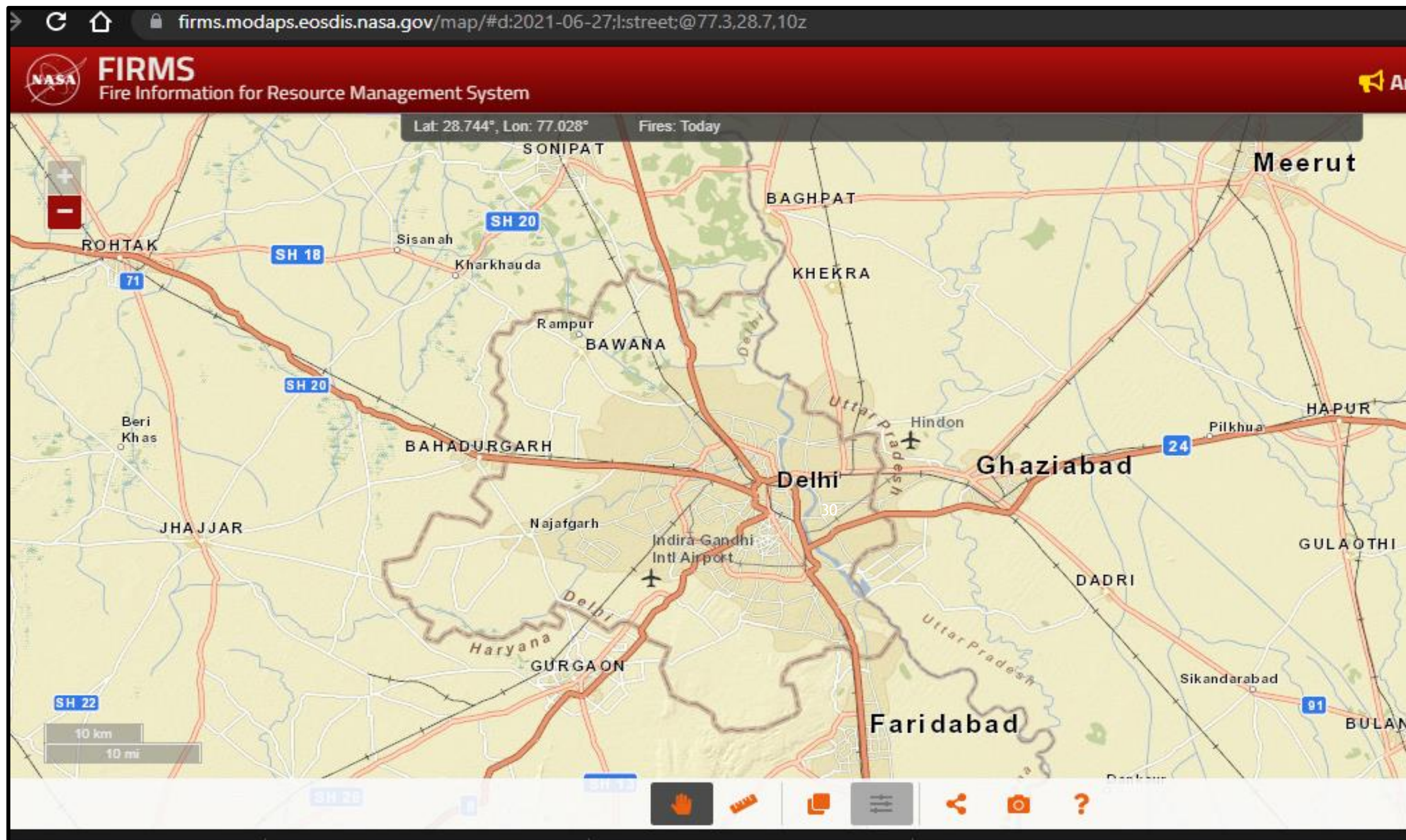
Annual Average of PM at 13 Hotspots (2018- 2022)



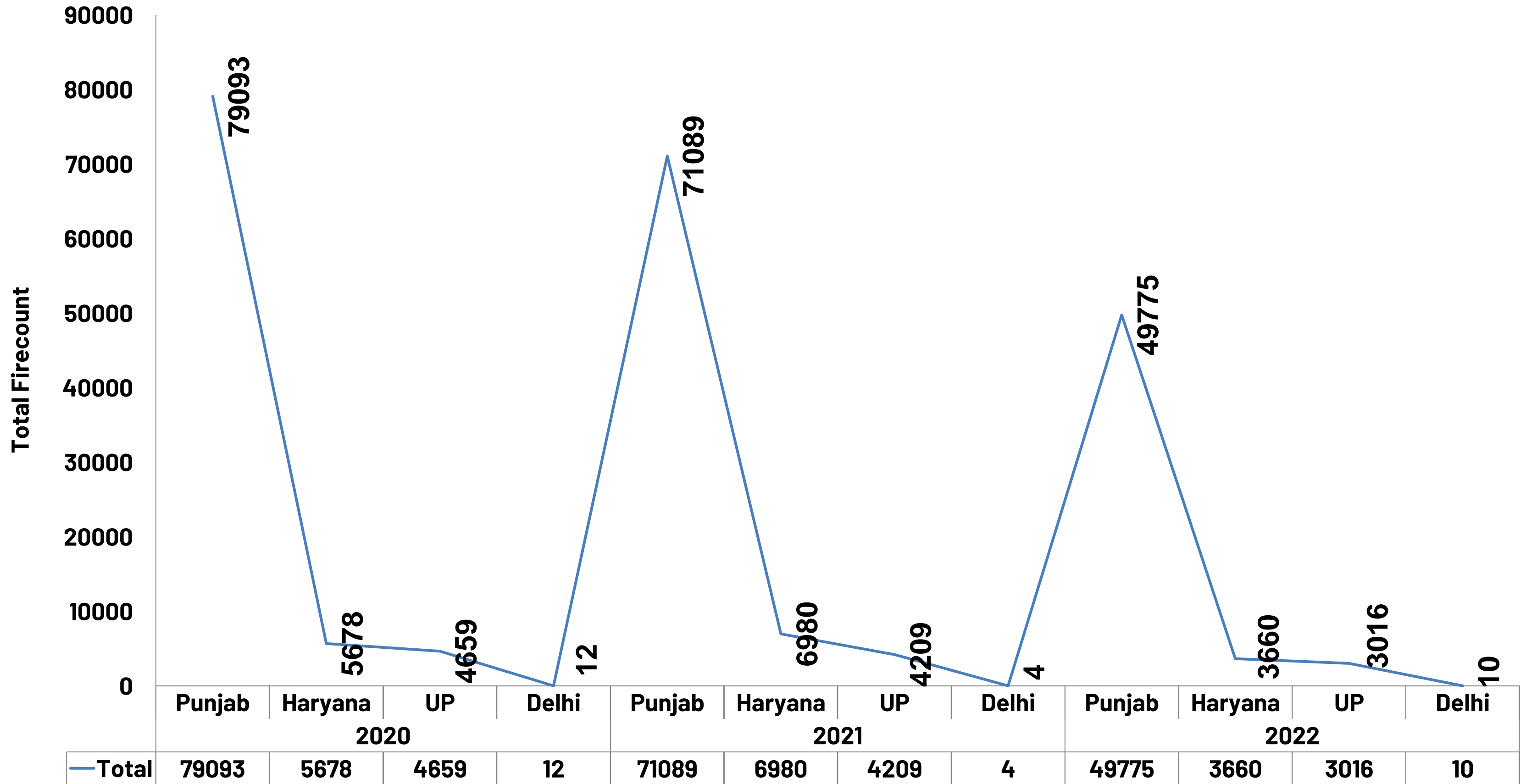
Reduction of PM10 at 13 Hotspots in 2022 wrt 2018 is 21%

Reduction of PM2.5 at 13 Hotspots in 2022 wrt 2018 is 20%

5. NASA FIRMS - Live Fire Monitoring



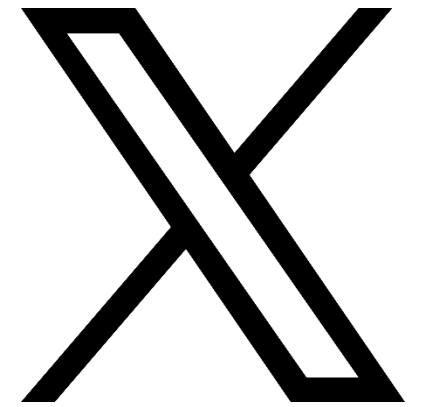
Comparison of Residue Burning Events 2020-2022



Real-Time Monitoring of Rice Residue Burning Events (last 10 days)

Date	Punjab	Haryana	UP	Delhi	MP	Rajasthan
03/10/2023	105	17	08	00	05	05
02/10/2023	119	24	07	00	01	04
01/10/2023	123	21	17	00	08	04
30/09/2023	81	26	18	00	11	04
29/09/2023	68	17	06	00	05	06
28/09/2023	33	08	04	00	02	00
27/09/2023	21	09	00	00	00	00
26/09/2023	03	02	00	01	00	00
25/09/2023	00	01	01	00	01	00
24/09/2023	00	00	01	00	00	00
Season's Total (15 Sep to 03 Oct 23)	561	137	65	01	35	23

* Events are as per the "Standard Protocol 2021" notified by "Commission for Air Quality Management in National Capital Region and Adjoining Areas", Direction No. 32 vide F.No. A-110014/10/2020/CAQM-SB/661-668 dated 16.08.2021



❑ @DPCC_pollution

❑ No of active complaints as on 29.09.2023 are 33, out of which 11 complaints pertains to DPCC, 17 complaints pertains to other departments and 5 complaints are untraceable/ deleted.



Thank You



सत्यमेव जयते

Department of Environment
Govt. of NCT of Delhi