



Department of
Environment, GNCTD

Inventory of major point air pollution sources in Delhi

Hotspots and other priority areas



@ Department of Environment, GNCTD
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I. Introduction

Delhi, the capital city of India with a total area of 1484 sq. km and is sustaining over 21 million population which is consistently increasing at an exponential rate, and about 11297 persons per sq. km are residing in the city and the latest car density of Delhi (108 cars per km). Delhi has semi-arid climatic conditions with distinct winter (November to February), summer (March to June) and monsoon-pre-winter (July to October) seasons. The temperature varies from 5 °C to 10 °C in the winter season and rises to 45 °C (or more) in peak summer seasons.

The city is surrounded by the Indo-Gangetic alluvial plains in the North and East and Aravalli hill ranges in the South. Delhi Ridge is a prominent geological feature carrying patch of vegetation; hence, regarded as the lungs of the city. In 2021 around 23.06% of the geographical area is forest-covered.

Ambient air quality has always been an environmental issue over northern India, especially in Delhi, gets magnified during the post-monsoon months due to a combination of atmospheric and human factors. These include winter inversion and the 'valley' effect apart from the like industrial and vehicular emissions. Seasonal factors like dust storms, crop fires, burning of solid fuels for heating, and firecracker-related pollution during Diwali, also aggravate the winter pollution crisis.

During winters the planetary boundary layer is thinner as the colder air near the earth's surface is dense. The warmer air above blocks the cooler air and traps it forming a kind of atmospheric 'lid'. This phenomenon is called the winter inversion. Since the vertical mixing of air happens only within this layer, the pollutants released lack enough space to disperse in the atmosphere. The effects of inversion are more substantial at night, which is why air quality levels drop overnight.

Contribution of different air pollution sources in Delhi and NCR:

Multiple source apportionment and emissions inventory studies have been carried out in the period 2015-2018. These include pollution source apportionment and source inventory by the Indian Institute of Technology-Kanpur (IITK) for Delhi in 2015; by The Energy and Resources Institute (TERI) and the Automotive Research Association of India (ARAI)⁵ in 2018 for Delhi-NCR; and by System of Air Quality and Weather Forecasting and Research (SAFAR), Delhi, IITM, in 2018.

These studies show that there is considerable seasonal variation in the relative contribution of pollution sources between winter and summer. While during summer, the influence of dust increases to almost 31-34 per cent, its share during winter reduces to 6-15 per cent. The contribution of combustion sources (vehicles, industry, biomass burning among others) increases during winter to 85-94 per cent.

Notably, share of secondary particles (that form in the atmosphere from other gaseous pollutants from combustion sources, like sulfur dioxide, nitrogen oxides, ammonia, and volatile organic compounds etc.) can be as high as 26-30 per cent during winter and about 15-17 per cent during summer (Tables 1 and 2).

The available data, however, enables to initiate target-oriented strategies and actions to control and abate air pollution in the region and could be further aligned with specific source apportionment studies for particular regions, whenever conducted.

Table 1: Contribution of sources to PM2.5 – winter and summer (using receptor modelling)

| Sources | Winter | | Summer | |
|------------------------------|---------------------|--------------------------|---------------------|--------------------------|
| | IITK 2015 (in %) | TERI-ARAI 2018 (in %) | IITK 2015 (in %) | TERI-ARAI 2018 (in %) |
| Secondary particles | 30 | 26 | 15 | 17 |
| Vehicles | 25 | 23 | 9 | 18 |
| Industry (coal) | 5 | 10 | 26 | 11 |
| Biomass burning | 26 | 22 | 12 | 15 |
| Dust and construction | 6 | 15 | 31 | 34 |
| Others | 8 | 4 | 7 | 5 |



Table 2: Sector-wise contribution of PM2.5 reported in three recent emission inventories in Delhi-NCR

| Emission sectors | Delhi (2015) | Emission sectors | Delhi (2018) | | NCR (2018) | |
|-------------------------|--------------|---|--------------|------------------|--------------|------------------|
| | IIT-K (in %) | | SAFAR (in %) | TERI-ARAI (in %) | SAFAR (in %) | TERI-ARAI (in %) |
| Transport | 20 | Transport | 41 | 39 | 39 | 12 |
| Industrial stack | 11 | Industry | 19 | 3 | 22 | 23 |
| Industrial area | 2 | Power plants | 5 | 11 | 3 | 8 |
| Domestic burning | 12 | Residential burning | 3 | 6 | 6 | 24 |
| Solid waste burning | 3 | Windblown (includes construction) | 21 | 26 | 18 | 7 |
| Road dust | 38 | | | | | |
| Construction/demolition | 2 | | | | | |
| Hotels/Restaurants | 3 | Others* | 11 | 15 | 12 | 26 |
| Others* | 9 | | | | | |

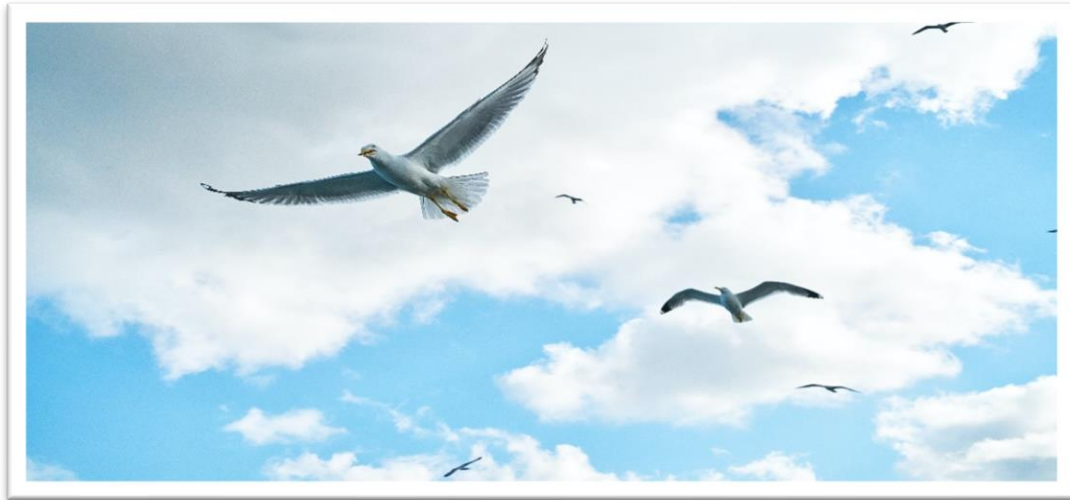
Note: IITK-Others* – included DG sets, MSW burning, crematoria, aircraft, hotels/ restaurants, medical incinerators.

SAFAR -Others* – included brick industry, hotels (dhabas), hospitals, malls, waste and biomedical waste burning, crematorium, DG sets, etc

TERI-ARAI-Others* – included DG sets, refuse burning, crematoria, airport, restaurants, incinerators, landfills, etc.

II. Continuous Ambient Air Quality Monitoring Stations (CAAQMS):

Continuous Ambient Air Quality Monitoring System (CAAQMS) is a specialized system housed in temperature controlled container and is equipped with all necessary analysers required for ambient air quality monitoring, calibration equipment, data acquisition (hardware and software) system with complete power backup facility. This system generates real time data and can be remotely managed. The network of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) is spanning over the Delhi at present, 40 CAAQM stations covering NCT of Delhi are existing. Under CAAQMS the Particulate Matter (PM10& PM2.5), Sulphur Dioxide (SO2), Nitrogen Dioxide (NO2), Ammonia (NH3), Carbon Monoxide (CO), Ozone (O3) and Benzene (C6H6) are being monitored at all locations. The CAAQMS are also equipped with sensors to measure meteorological parameters such as Wind Speed, Wind Direction, Ambient Temperature, Relative Humidity, Solar Radiation and Rainfall. The data of these CAAQMS are being used for generating the daily National Air Quality Index (NAQI) of the city.



III. National Air Quality Index

National Air Quality Index (NAQI) was launched by Hon'ble Prime Minister on 6th April, 2015 with the objective for dissemination of Air Quality information to the public. Computation of AQI is done using real-time data of Continuous Ambient Air Quality Monitoring Stations. This index will help the people to know about the level of pollution in the ambient air on daily basis. The AQI consider eight pollutants (PM10, PM2.5, NO2, SO2, CO, O3, NH3, and Pb), it is calculated only if data are available for minimum three pollutants out of which one should necessarily be either PM2.5 or PM10. There are six AQI categories namely, Good, Satisfactory, Moderate, Poor, Very Poor, and Severe.)

| AQI | Associated Health Impacts |
|--------------------------------------|--|
| Good (0-50) | Minimal Impact |
| Satisfactory (51-100) | May cause minor breathing discomfort to sensitive people. |
| Moderately polluted (101-200) | May cause breathing discomfort to people with lung disease such as asthma, and discomfort to people with heart disease, children and older adults. |
| Poor (201-300) | May cause breathing discomfort to people on prolonged exposure, and discomfort to people with heart disease |
| Very Poor (301-400) | May cause respiratory illness to the people on prolonged exposure. Effect may be more pronounced in people with lung and heart disease. |
| Severe (401-500) | May cause respiratory effects even on healthy people and serious health impacts on people with lung/heart disease. The health impacts may be experienced even during light physical activity |

IV. Air Quality Standards

Revised National Ambient Air Quality Standards (NAAQS)

NAAQS Notification dated 18^h November, 2009

| S. No. | Pollutants | Time Weighted Average | Concentration in Ambient Air | | Methods of Measurement |
|--------|--|-----------------------|--|--|---|
| | | | Industrial, Residential, Rural and other Areas | Ecologically Sensitive Area (notified by Central Government) | |
| 1 | Sulphur Dioxide (SO ₂), µg/m ³ | Annual* | 50 | 20 | 1. Improved West and Gaeke 2. Ultraviolet Fluorescence |
| | | 24 Hours** | 80 | 80 | |
| 2 | Nitrogen Dioxide (NO ₂), µg/m ³ | Annual* | 40 | 30 | 1. Modified Jacob & Hochheiser 2. Chemiluminescence |
| | | 24 Hours** | 80 | 80 | |
| 3 | Particulate Matter (Size <10µm) or PM ₁₀ µg/m ³ | Annual* | 60 | 60 | 1. Gravimetric 2. TEOM 3. Beta attenuation |
| | | 24 Hours** | 100 | 100 | |
| 4 | Particulate Matter (Size <2.5 µm) or PM _{2.5} µg/m ³ | Annual* | 40 | 40 | 1. Gravimetric 2. TEOM 3. Beta attenuation |
| | | 24 Hours** | 60 | 60 | |
| 5 | Ozone (O ₃), µg/m ³ | 8 hours** | 100 | 100 | 1. UV photometric 2. Chemiluminescence 3. Chemical Method |
| | | 1 hours** | 180 | 180 | |
| 6 | Lead (Pb), µg/m ³ | Annual* | 0.50 | 0.50 | 1. AAS/ICP Method after sampling using EPM 2000 or equivalent filter paper 2. ED-XRF using Teflon filter |
| | | 24 Hour** | 1.0 | 1.0 | |
| 7 | Carbon Monoxide (CO), mg/m ³ | 8 Hours** | 02 | 02 | Non dispersive Infra Red (NDIR) Spectroscopy |
| | | 1 Hour** | 04 | 04 | |
| 8 | Ammonia (NH ₃), µg/m ³ | Annual* | 100 | 100 | 1. Chemiluminescence 2. Indophenol blue method |
| | | 24 Hour** | 400 | 400 | |
| 9 | Benzene (C ₆ H ₆), µg/m ³ | Annual* | 05 | 05 | 1. Gas chromatography based continuous analyzer 2. Adsorption and Desorption followed by GC analysis |

| | | | | | |
|----|---|---------|----|----|--|
| 10 | Benzo(a)Pyrene (BaP)- particulate phase only, ng/m ³ | Annual* | 01 | 01 | Solvent extraction followed by HPLC/GC analysis |
| 11 | Arsenic (As), ng/m ³ | Annual* | 06 | 06 | AAS/ICP method after sampling on EPM 2000 or equivalent filter paper |
| 12 | Nickel (Ni), ng/m ³ | Annual* | 20 | 20 | AAS/ICP method after sampling on EPM 2000 or equivalent filter paper |

• Annual Arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform interval. ** 24 hourly 08 hourly or 01 hourly monitored values, as applicable shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

NOTE: Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.



V. List of CAAQMS location with Districts

| S. No. | Stations | District |
|----------------------|---|------------------|
| DPCC STATIONS | | |
| 1 | Alipur (MGICCC) | North Delhi |
| 2 | Anand Vihar (ISBT) | Shahdara |
| 3 | Ashok Vihar (Satyawati college) | North West Delhi |
| 4 | Bawana (M.V. Hospital) | North Delhi |
| 5 | Dr. Karni Singh Shooting Range (KSSR) | South East Delhi |
| 6 | Dwarka (NIMR) | South West Delhi |
| 7 | Jahangirpuri (ITI) | North Delhi |
| 8 | JLN Stadium | South East Delhi |
| 9 | Mandir Marg (N.P. Boys Sr. Sec. School) | New Delhi |
| 10 | Mundka (Metro Residential Colony) | West Delhi |
| 11 | Najafgarh (CBPACS) | South West Delhi |
| 12 | Narela (ITI) | North Delhi |
| 13 | National Stadium (DCN) | New Delhi |
| 14 | Nehru Nagar (PGDAV college) | South East Delhi |
| 15 | Okhla (DITE) | South East Delhi |
| 16 | Patparganj (Mother dairy) | East Delhi |
| 17 | Punjabi Bagh (SKV No. 2) | West Delhi |
| 18 | Pusa | New Delhi |
| 19 | R.K. Puram (KV Sec-2) | New Delhi |
| 20 | Rohini (SSD college) | North Delhi |
| 21 | Sonia Vihar (DJB water treatment plant) | North East Delhi |
| 22 | Sri Aurobindo Marg (NITRD) | South Delhi |
| 23 | Vivek Vihar (ITI Shahdara) | Shahdara |
| 24 | Wazirpur (DITE) | North West Delhi |
| CPCB STATIONS | | |
| 25 | Sirifort | South |
| 26 | DTU | North West |
| 27 | IHBAS | Shahdara |
| 28 | ITO | Central |
| 29 | NSIT | South West |
| 30 | Shadipur | South West |
| IMD STATIONS | | |
| 31 | CRRI, Mathura Road | South East |
| 32 | IMD, Lodhi road | New Delhi |
| 33 | IITM, Lodhi road | New Delhi |
| 34 | Ayanagar | South |
| 35 | Pusa | Central |
| 36 | DU, North campus | North |
| 37 | IGI T3 | South West |
| 38 | Chandni chowk | North |
| 39 | Burari Crossing | North |
| MOHUA | | |
| 40 | New Moti Bagh | South West |

VI. Hotspots

The preparation of microlevel plan has arisen based on the minutes of the meeting chaired by Principal Secretary to PM on 18.12.2018

Department of Environment, Govt. of NCT of Delhi received Communication from Ministry of Environment Forest and Climate Change Govt. of India in respect of preparation of microlevel plan for hotspot in Delhi.

A total of 13 hotspots namely Anand Vihar, Okhla, Mundka, Dwarka, Pooth Khurd Bawana, R.K.Puram, Rohini, Narela, Jahangirpuri, Vivek Vihar, Wazirpur, Ashok Vihar and Punjabi bagh, the same was put up by Dept. of Environment, GNCTD in February 2019.

The above-mentioned hotspots were identified based upon the annual average of PM10 exceeding $300\mu\text{g}/\text{m}^3$ and for PM2.5 more than $100\mu\text{g}/\text{m}^3$.



VII. Inventorization of major point air pollution sources at 13 Hotspots

1. ANAND VIHAR

| Hotspot Name | | ANAND VIHAR | Nodal JEE (Sh. Amritanshu: 7703890801) |
|--------------|---|--------------------------------------|---|
| S. No | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Exit Road of Anand Vihar Bus Station | DTIDC, Transport Department GNCTD | Sh. S K Rai (DTIDC) - 8957301780 Sh. Rajesh K. Sharma (DTIDC) - 9717788086 |
| 2 | Stoppage of bus at exit road | | Sh. Dimple Saini (DTIDC) - 9717694984 |
| 3 | Commuting buses | | Sh. Rakesh Vaid (Transport) - 9999603111 Sh. Yogesh Jain (Transport) - 9599777103 |
| 4 | Decongestion of Main Road (Chaudhary Charan Singh Marg) | Delhi Traffic Police | Smt. Manju Singh (Traffic Police) - 9971896359 |
| 5 | Heavy Dust Deposition on sides of Road | MCD PWD | Sh. R. K. Singh (MCD) - 9717788340 Sh. Amrendra Kumar (PWD) - 9868739120 Sh. Sheikh Nizam (PWD) - 8448320699 Sh. Rajesh Gupta (PWD) - 9560804745 |
| 6 | Area in Front of CAAQMS : Unpaved and Paved both with heavy dust load | NCRTC | Sh. Praveen Kumar (NCRTC) - 8130444660 |
| 7 | NCRTC Construction Site | | Sh. Shambhu Nath Singh (NCRTC) - 7023667930 Sh. Vidya Shankaran (NCRTC) - 7010962750 |
| 8 | Dust Removal | | Sh. Prakash Singh (NCRTC) - 9911111492 Sh. Rohit (NCRTC) - 9910484365 |

| | | | |
|----|---|-------------------------|---|
| 9 | People walking across road through broken divider. This makes vehicle to stop and traffic jam situation is created frequently although no traffic light is there. | PWD, Traffic Department | Sh. Amrendra Kumar (PWD) - 9868739120 |
| 10 | Surya Nagar Flyover | | Sh. Sheikh Nizam (PWD) - 8448320699 Smt. Manju Singh (Traffic Police) - 9971896359 |
| 11 | Road at Anand Vihar Railway Station | Railway | Sh. Pankaj Panchal (Railway) - 9717633037 |
| 12 | Integrated East Delhi Hub | NBCC | Sh. Nagaranjan (NBCC) - 9965015351 |



2. ASHOK VIHAR

| Hotspot Name | | ASHOK VIHAR | Nodal JEE (Sh. Deepanshu Puri: 8368238844) |
|--------------|--|-----------------------|--|
| S. No | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Accumulation of road dust in front of Wazirpur Industrial Area A-Block near DJB Store Office due to laying of sewer line by DJB. | MCD DJB DSI IDC | Sh. P K Singh (AC) MCD - 9811103436 Sh. SN Prasad (EE) DJB - 9650291221 Sh. Dharendra (AE) DSI IDC- 9717444536 |
| 2 | Illegal dumping & burning of Garbage alongside roads was observed near Keshavpuram metro station | MCD Fire Services | Sh. P K Singh (AC) MCD- 9811103436 |
| 3 | Traffic Congestion between Azadpur Metro to Azadpur bus terminal- Azadpur Chowk | Delhi Traffic Police | Sh. Rajesh (Traffic Inspector) - 8750871466 |
| 4 | Road Dust due to unpaved road near the construction site of metro near Gurjanwala Town. | DMRC | Sh. Rajesh Aneja (EE) DMRC - 9958091027 |



3. BAWANA

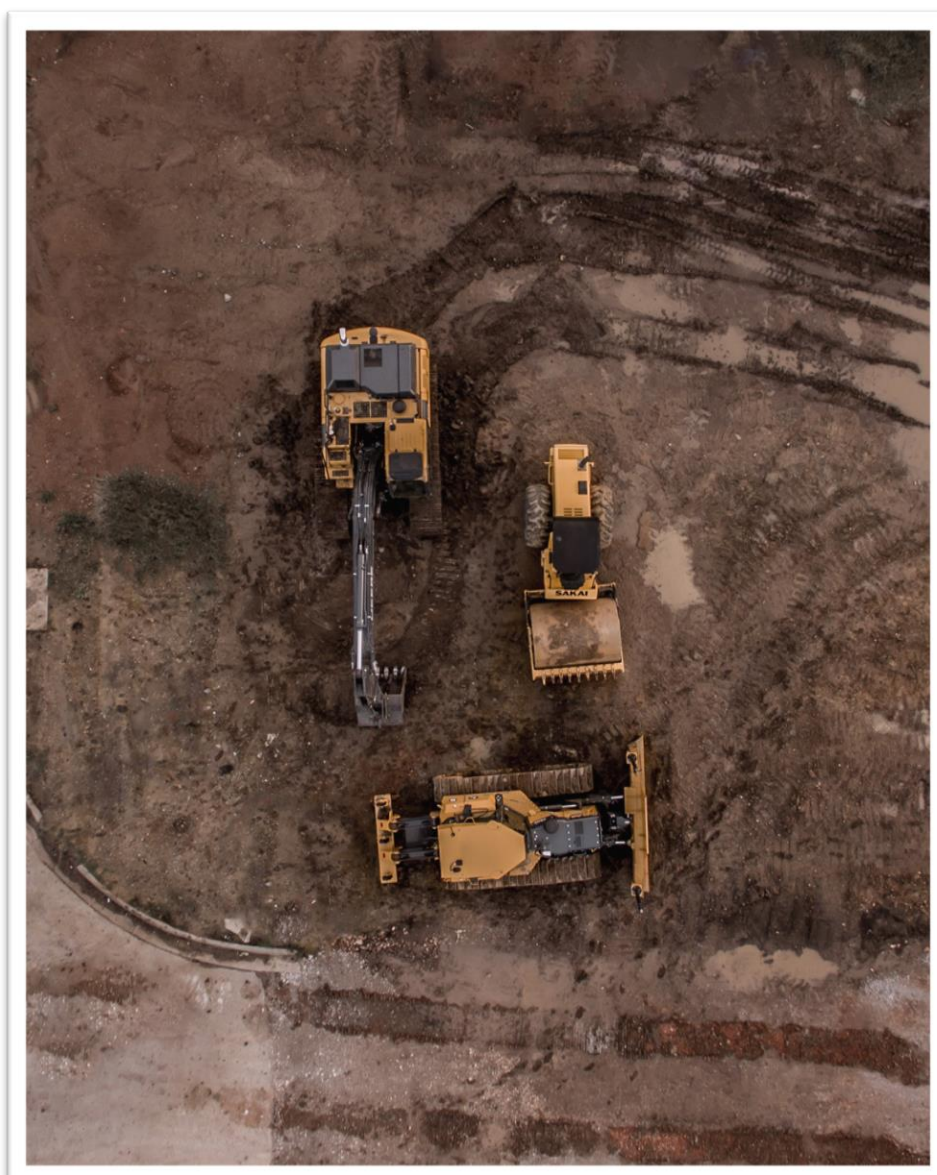
| Hotspot Name | | BAWANA | Nodal JEE (Sh. Ajay Malik: 9319612226) |
|--------------|--|-----------------------------|---|
| S. No | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Construction of UER-2 construction project near Bawana Industrial Area without proper dust mitigation measures | NHAI | Sh. Piyush Aggarwal (project manager)- 7080480687 Sh. Abhishek (site engineer)- 9719076343 Sh. Gajendra Singh- 9911265770 |
| 2 | Illegal garbage dumping outside the Maharishi Valmiki hospital and traffic congestion outside hospital | Delhi Traffic Police MCD | MCD official Sh. Jasbir Singh (ASI, MCD)- 9910489856 Sh. Amit (ASI, MCD)- 9999687115 Sh. Rambeer (SI, MCD)- 9311554243 Sh. Naveen (JE, MCD)- 9718820707 PWD – Sh. Subhash Chander, AE- 9810961880, Sh. Vijender Singh, EE- 8700857103 Sh. Munish Bhatnagar, AE- 9811055443 |
| 3 | Road dust at pooth khurd road were observed which is near the bawana CAAQM station. | PWD MCD | MCD official Sh. Jasbir Singh (ASI, MCD)- 9910489856 Sh. Amit (ASI, MCD)- 9999687115 Sh. Rambeer (SI, MCD)- 9311554243 Sh. Naveen (JE, MCD)- 9718820707 PWD – Sh. Subhash Chander, AE - 9810961880, Sh. Vijender Singh, EE- 8700857103 |

| | | | |
|---|--|-----|--|
| | | | Sh. Munish Bhatnagar, AE-9811055443 |
| 4 | Road dust were observed in front of Bawana CAAQM station when the vehicles pass through the road dust particles kicked up resulting in increasing the AQI. | PWD | MCD official Sh. Jasbir Singh (ASI, MCD): 9910489856 Sh. Amit (ASI, MCD): 9999687115 Sh. Rambeer (SI, MCD): 9311554243 Sh. Naveen (JE, MCD): 9718820707 PWD – Sh. Subhash Chander, AE - 9810961880, Sh. Vijender Singh, EE-8700857103 Sh. Munish Bhatnagar, AE-9811055443 |

4. DWARKA

| Hotspot Name | | DWARKA | Nodal JEE (Sh. Amzad Khan: 8860364102) |
|--------------|--|-----------------------|--|
| S. No | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Dumping of garbage, cow dungs and C & D waste in DDA park just on the other side of the road of National Malaria Research Centre (Dwarka) where CAAQM station is installed. Just adjacent to this park, there are MSW bins provided by MCD. | DDA | Sh. Vicky Verma [AE], DDA, -7976626944 S. E (Headquarter), DDA-9868533888 Sh. Brijesh Kumar, (EE/DPD-5(7983747721) |
| 2 | Traffic congestion on Road Tula Ram chowk, and traffic congestion on three T-junctions which are approx. 300-500 metres away from CAAQM station. | MCD | Sh. Pravesh Rana (JE, Maintenance, MCD)-9015080008 Sh. Ajay Choudhary (AE, MCD)-9717787695 |

| | | | |
|---|--|------------|--|
| | | | Sh. Abhishek Sharma (AC), Najafgarh Zone-7303803458 |
| 3 | Road Dust due to vehicles on the roads on all sides of National Malaria Research centre (Dwarka) where CAAQM station is installed. | MCD DDA | Sh. Pravesh Rana (JE, Maintenance, MCD)- 9015080008 Sh. Ajay Choudhary (AE, MCD)- 9717787695 Sh. Abhishek Sharma (AC), Najafgarh Zone-7303803458 Sh. Vicky Verma [AE], DDA, - 7976626944 S.E(Headquarter), DDA- 9868533888 |



5. JAHANGIRPURI

| Hotspot Name | | JAHANGIRPUR I | Nodal JEE (Sh. Kamal Gaurav: 9971488247) |
|--------------|---|------------------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Using wood and charcoal for cooking. [Clusters of Jhuggi Jhopdi around CAAQMS. They cook their food on traditional chulhas by burning wood charcoal.] | MCD DUSIB Delhi Police | Sh. Bhardwaj (MCD)- 9910872027 Sh. MH Khan (MCD)- 9717788246 Sh. Kanwar Pal Singh (MCD)- 8800696676 Sh. DP Meena (DUSIB)- 9560596065 Sh. Shashank (DUSIB)- 9999080719 |
| 2 | DMRC project construction work and Plant | DMRC MCD | Sh. Bhardwaj (MCD)- 9910872027 Sh. Anand (DMRC)-9891627443 Sh. DK Sharma (SAM India DMRC Contractor)- 9560502626 Sh. Viru Yadav (DMRC) - 7458826532 |
| 3 | Illegal dumping and burning of garbage Biomass burning along the roads (kali Mata Mandir Road, Pump house road, etc) and in divider of roads. | MCD DDA REVENUE | Sh. Bhardwaj (MCD)- 9910872027 Sh. MH Khan (MCD)- 9717788246 Sh. Kanwar Pal Singh (MCD)- 8800696676 Sh. Uditya Raj (DDA) - 7417341579 Sh. Naveen (DDA)- 9813247560 |
| 4 | Accumulation of road dust along the side of broken divider (Fish market road, etc) and roads (Block A, Block B, etc.) in streets. Various potholes on roads. | PWD MCD | Sh. Bhardwaj (MCD)- 9910872027 Sh. MH Khan (MCD)- 9717788246 Sh. Kanwar Pal Singh (MCD)- 8800696676 Sh. Uditya Raj (DDA) - |

| | | | |
|---|---|-----|---|
| | | | 7417341579 Sh. Naveen (DDA)- 9813247560 Sh. Vijender Singh (PWD)- 8700857103 |
| 5 | C&D Waste recycling plant/facility near MCD Colony Jahangirpuri | MCD | Sh. MH Khan (MCD)- 9717788246 |

6. MUNDKA

| Hotspot Name | | MUNDKA | Nodal JEE (Sh. Raghvendra Rai: 8447089397) |
|--------------|---|-----------------------|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Construction of Urban Extension Road II (UER II) nearby monitoring station leading to huge dust emissions. | NHAI | Sh. Piyush Aggarwal (Project Manager)(7080480687) |
| 2 | Operation of RMC plant by the construction agency of UER II, nearby to the monitoring station. | | Sh. Piyush Aggarwal (Project Manager)(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) | PWD MCD | <u>PWD Officers/ officials</u> Sh. Bichhitar Singh (Executive Engineer: 9599770085) Sh. Radheshyam Mishra (Assistant Engineer: 9873052137) Sh. Shantanu Garg (Junior Engineer: 7737319121) <u>MCD officers/ officials</u> Sh. AK Jain (EE: 9717788637) Sh. Ashish Sharma (AE: 8929637594) Sh. Danish (JE: 7290029637) Sh. Vijay Kumar (ASI: 9711588414) Sh. Satish Shokeen (ASI: |

| | | | |
|---|--|---------------------------------|---|
| | | | 9811025220) Sh. Shubhash (SI: 8527493782) |
| 4 | Traffic congestion below Mundka Industrial area metro station intersection due to higher traffic volume on Delhi Rohtak highway. | Delhi Traffic Police | |
| 5 | Unpaved roads inside Mundka Redevelopment area | Industries Department DSIIDC | |
| 6 | RMC Plant operation inside the nearby DMRC Casting Yards | DMRC | Sh. Varun K Singh (Assistant Manager: 7042883571) Sh. Anand Sahu (Assistant Engineer: 9717601604) Sh. Arvind (Junior Engineer: 8510028834) |
| 7 | Dust emission from potholes and unpaved Shoulders of Shaheed Vikrant Singh Lakra Marg starting from Ranikhera Mod Red light | MCD | Sh. AK Jain (EE: 9717788637) Sh. Ashish Sharma (AE: 8929637594) Sh. Danish (JE: 7290029637) Sh. Vijay Kumar (ASI: 9711588414) Sh. Satish Shokeen (ASI: 9811025220) Sh. Shubhash (SI: 8527493782) |

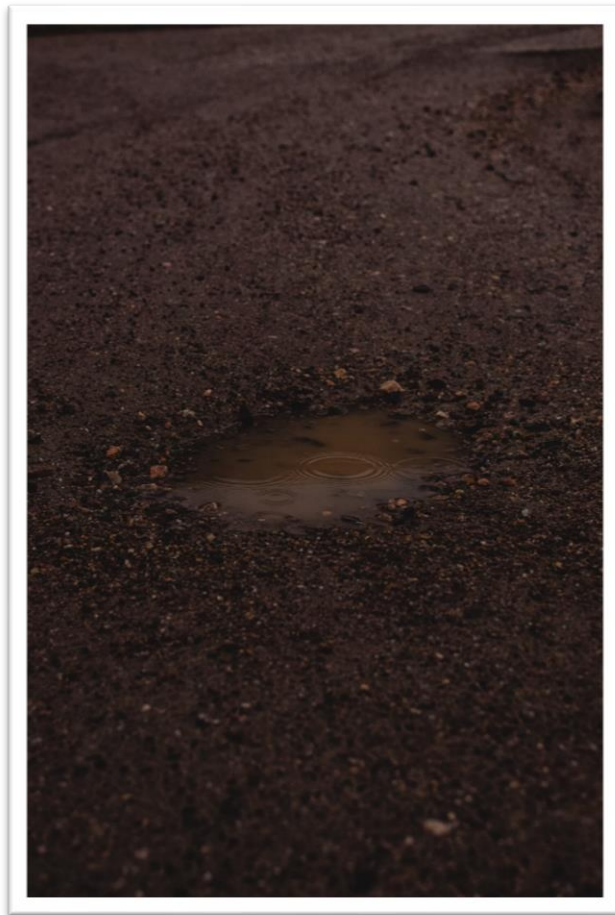


7. NARELA

| Hotspot Name | | NARELA | Nodal JEE (Sh. Vikas : 9716577854) |
|--------------|--|--------------------------------|---|
| S. No . | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Construction /Renovation activity inside the ITI Narela (CAAQMS station Narela), Near Narela DTC Depo. Construction workers residing found using chullas using wood etc as fuel. | DTIDC | Sh. Vijay Kumar (AGM/ EE(Civil)): 9811206654 Sh. Nitin Kumar (JE): 9999412512 |
| 2 | Dumping of garbage on roadside/vacant land in Narela Ind. Area. (Shahpur Garhidhlav) (near Narela DTC Depo) | DSIIDC MCD | DSIIDC Officials Sh. Ajit (EE): 8447411231 Sh. Vinay Kaushik (JE): 9654294958 MCD Officials Sh. V.S Yadav (DC, Narela): 8929521817 Sh. Athar Mustafa (EE): 9717788695 Sh. Ravinder (SS, Narela): 8800696593 Sh. Naresh Kumar (ASI-30 Bawana): 8448306231 |
| 3 | Movements of heavy trucks & traffic congestion in the Narela industrial area. (Near JP Dharam Kanta) | Delhi Traffic Police DSIIDC | ACP/Traffic/Outer North Distt.: 8750871423 DSIIDC Officials Sh. Ajit (EE): 8447411231 Sh. Vinay Kaushik (JE): 9654294958 |
| 4 | Construction of DDA Housing Project (in Pocket-4 at sector A1 to A4, Narela) near Narela Industrial Area. | DDA | Sh. S.K. Bansal (SE, HQ): 9310514133 Sh. N.K. Sharma (EE): 9811306426 Sh. V.S. Pawse (EE): 7065001921 Sh. Madhav Kumar (AE): 9555826430 |

| | | | |
|---|---|----------------------|--|
| | | | Tabrez Shams Hashmi (JE): 9310514133 |
| 5 | Construction of UER-II construction project (Package-I) on NH-44 GT Karnal Road, Bakoli & Narela-Alipur Road near Narela Industrial Area. | NHAI | Sh. Piyush Aggarwal (Project Manager): 7080480687 Sh. Abhishek (Site Engineer): 9719076343 |
| | Road dust, Traffic congestion on NH-44 due to Construction of UER-II construction project. | Delhi Traffic Police | ACP/Traffic/Outer North Distt.: 8750871423 |
| 6 | Illegal dumping of garbage and construction & demolition waste on vacant lands and road sides at Bhorgarh, Narela (Lat:28.8335 Long: 77.0931) & in front of Gate No. 3 Narela Industrial Area. (Lat: 28.8267 Long: 77.0982) | PWD MCD DDA | PWD Officials Sh. Vijender Singh (EE): 8700857103 Sh. Devender (AE): 9868545033 Sh. Sujeet Yadav (JE): 9984542840 MCD Officials Sh. V.S Yadav (DC, Narela): 8929521817 Sh. Athar Mustafa (EE): 9717788695 Sh. Ravinder (SS, Narela): 8800696593 Sh. Naresh Kumar (ASI-30 Bawana): 8448306231 DDA Officials Sh. S.K. Bansal (SE, HQ): 9310514133 Sh. N.K. Sharma (EE): 9811306426 Sh. Sandeep Dubey (EE): 8285424498 Sh. Amod Mishra (AE): 9648652900 Tabrez Shams Hashmi (JE): 9310514133 |
| 7 | Potholes on roads and road dust at stretch of Alipur | PWD MCD | PWD Officials Sh. Vijender Singh (EE): |

| | | |
|---|--|---|
| <p>Police Station Road & at Narela-Bawana Road from Bharat Mata School to Hanuman Mandir Bawana were observed.</p> | | <p>8700857103 Sh. Devender (AE): 9868545033 Sh. Sujeet Yadav (JE): 9984542840 MCD Officials Sh. V.S Yadav (DC, Narela): 8929521817 Sh. Inderjeet Singh (EE): 9717788006 Sh. Narender (JE): 8010463127 Sh. Ravinder (SS, Narela): 8800696593</p> |
|---|--|---|



8. OKHLA

| Hotspot Name | | OKHLA | Nodal JEE (Sh. Nikunj Malik: 8851100132) |
|--------------|---|-----------------------|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Damaged pavement of Ma-Anandmayee Marg & Okhla Estate Marg | PWD MCD | Sh. Sanjay, EE, PWD - (9431954193) Sh. Prashant, AE, PWD - (8210997979) Sh. Hari Ballabh, AE, PWD - (9818210963) Sh. Ravinder Kumar, AE, MCD - (9717787830) Sh. Ankit Yadav, JE, MCD - (8375883795) |
| 2 | Heavy traffic congestion on the Ma Anandmayee Marg & Okhla Estate Marg which results in high vehicular emission | Delhi Traffic Police | ACP (Traffic), South-East- (8750871416) Sh. Data Ram, Traffic Inspector, (Sarita Vihar Circle)- (8750871448) |
| 3 | Construction Project of Godrej Vestamark LLP Ltd. | MCD | Sh. Naveen, Building Dept, MCD- (9716839595) |



9. PUNJABI BAGH

| Hotspot Name | | PUNJABI BAGH | Nodal JEE (Sh. Shashank : 7484886568) |
|--------------|--|-------------------------------|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Construction of Moti Nagar Flyover | PWD | Sh. Pramod EE, PWD-9968264177, Sh. Budh Ram AE, PWD-9990175469 |
| 2 | Huge Traffic congestion below the Moti Nagar flyover due to construction of flyover and in the Punjabi Bagh Club Road due to obstruction of parked vehicles. | Delhi Traffic Police, PWD | Sh. Bichhitar Singh, EE, PWD-9599770085 Sh. Vishal Saxena, JE, PWD-8859349747 Sh. Deepak Bharadwaj, TI west-9015065030 Sh. Jitender ASI, Punjabi Bagh Circle-9540957555 |
| 3 | Potholes on roads and road dust at various stretches of west Punjabi Bagh were observed.(Unpaved Road No. 77 and Club Road) | PWD, MCD | Sh. NR Meena, EE, MCD-8588880610 Ms. Kirti Pal AE, MCD- 9717787049 Sh. Joginder JE, MCD- 9717471617 Sh. Bichhitar Singh, EE, PWD-9599770085 Sh. Vishal Saxena, JE, PWD-8859349747 |
| 4 | Ram Leela ground causing dust emission due to usage as the driving training park. | MCD | Sh. NR Meena, EE, MCD-8588880610 Ms. Kirti Pal AE, MCD- 9717787049 Sh. Joginder JE, MCD- 9717471617 Sh. Rajinder Rathore, SO, Horticulture Department, MCD-9710002222. |
| 5 | Illegal dumping of construction and demolition waste on vacant lands and Main Rohtak Road along the rohtak road stretch between Madipur metro station to shivaji park metro station. | PWD Indian Railways MCD | Sh. Bichhitar Singh, EE, PWD-9599770085 Sh. Vishal Saxena, JE, PWD-88593 49747 Sh. Vijender, SI, Rani Bagh-08800696797 |



10. R K PURAM

| Hotspot Name | | R K PURAM | Nodal JEE (Sh. Sarim : 9997970538) |
|--------------------|--|-----------------------|--|
| S. No. / Regarding | Identified Sources of Pollution | Concerned Departments | Concerned Officials |
| 1 | Road Repair needed at Exit Point of Sarojini Nagar (S.N.) Bus Depot. Some patches are found broken at Church Road RK Puram | MCD | MCD Officials Sh. Angel Bhati (DC South) - 9205146001 Sh. Ajay Aggarwal SE (MCD South) - 9717788590 Sh. NARESH GARG - EE (MCD SOUTH) - 9717787940 Sh. Jaishankar JE (MCD South) - 8860938272 |
| 2 | Traffic Congestion near Exit Point of Sarojini Nagar (S.N.) Bus Depot. | Delhi Traffic Police | DCP (South West) - 8130099063 |
| 3 | Africa Avenue Road and Outer Ring Road are heavily congested and are adjacent to CAAQMS Hotspot. | | ACP (South West) - 8700633107 Traffic Inspector - 8750871438 |
| 4 | Construction at Netaji Nagar Redevelopment Project and NBCC World Trade Centre Project, Nauroji Nagar is in the vicinity of the Hotspot. | NBCC | Sh. Nand Kishore Ram (CGM) NBCC - 7777095224 Ms. Sasi Kumar (PM) NBCC - 8450971027 |

11. ROHINI

| Hotspot Name | | ROHINI | Nodal JEE (Sh. Kamal Gaurav : 9971488247) |
|--------------|--|---|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Drain flowing adjacent to CAAQMS | I&FC PWD | Dr. Naveen Kumar (DANICS)- 9991855313 Sh. Krishna Meena (I&FC) - 9660443355 |
| 2 | Construction of Venkateshwara Hospital adjacent to Shaheed Sukhdev Singh College | Contractor of Venkateshwara Hospital Site; MCD | Sh. Hsohiyar Singh (MCD)- 8800379214 AC Rohini Zone (MCD)- 9810380334 Sh. Prakash (MCD)- 8800696844 Sh. Vijay Anand (Project Manager Venketwshwar Hospital) - 7827766569 |
| 3 | Illegal dumping and burning of garbage Biomass burning along the roads (Roads along the Drain and burning on land adjacent to drains) | MCD DDA Fire Services | Sh. Hsohiyar Singh (MCD)- 8800379214 AC Rohini Zone (MCD)- 9810380334 |

12. VIVEK VIHAR

| Hotspot Name | | VIVEK VIHAR | Nodal JEE (Sh. Sumit : 7980775434) |
|--------------|---|-----------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Dust Pollution due to Construction/ Demolition activity being carried out in societies of Yojana Vihar, Sreshtha Vihar, Ashoka Niketan and adjoining areas | MCD | Sh. Abhishek Pandey JE- 7860866149 Sh. Girish AE - 9717788173 |
| 2 | Accumulation of road dust and broken roads found in B-Block, jhilmil industrial area and near areas of Dilshad Garden such as | MCD PWD DSIIDC | MCD - Sh. Abhishek Pandey JE 7860866149, Sh. Girish AE - 9717788173 PWD - Sh. Amrender AE - 9868739120 |

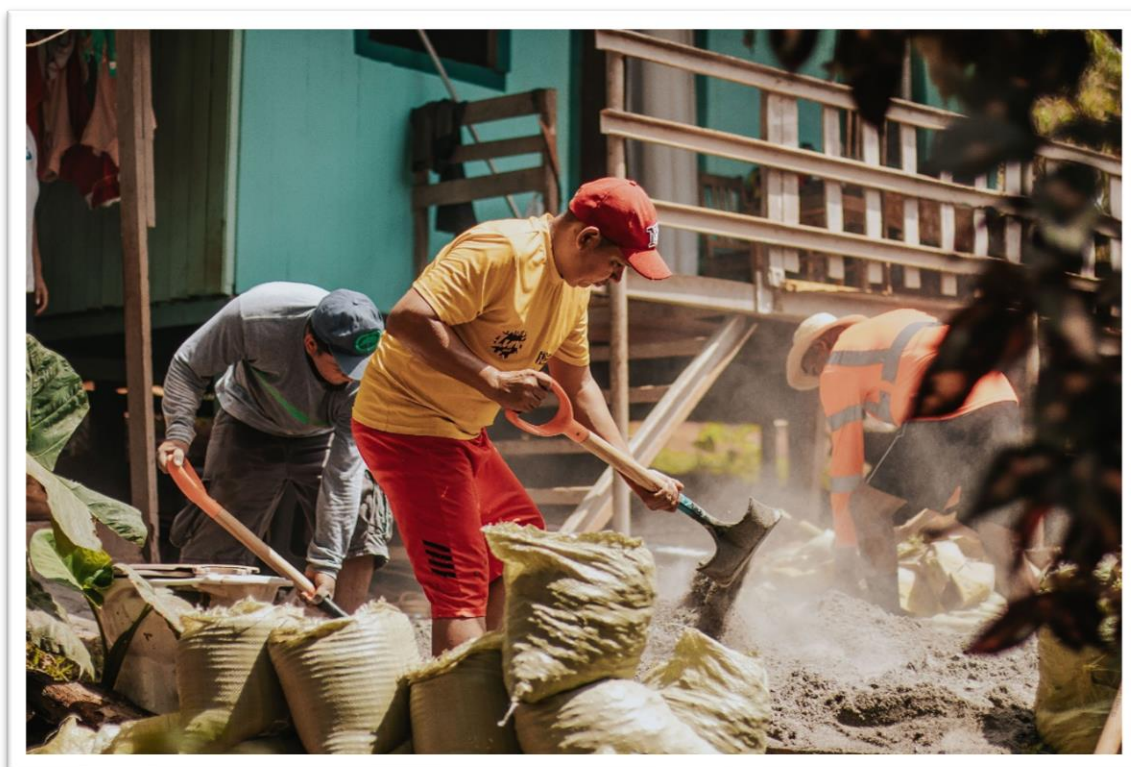
| | | | |
|---|---|--------------------|--|
| | Jagatpuri Extension, GTB Enclave, Tahirpur Village etc | | DSIIDC - Shree Gopal, EE - 9958465016 |
| 3 | Garbage, Construction & Demolition Waste found accumulated below Shahdara Flyover Mansarovar Park metro station, near B-1/53 Jhilmil Industrial Area etc | | |
| 4 | Traffic congestion found near Railway Road (Jhilmil Underpass), Jhilmil Railway Under Bridge (Friends Colony Industrial area underpass) | Traffic Department | Smt. Manju Singh (Traffic Police) - 9971896359 |



13. WAZIRPUR

| Hotspot Name | | WAZIRPUR | Nodal JEE (Sh. Raghvendra: 9773902527) |
|--------------|---|-----------------------------|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Accumulation of road dust and broken roads in front of CAAQMS and 2 roads broken by DJB within 100 mtrs of CAAQMS 1) Road in front of DJB store A block Wazirpur industrial area 2) Road in front of A-43 wazirpur industrial area | MCD DSI IDC DJB | Sh. P K Singh (AC) MCD - 9811103436 Sh. S N Prasad (EE) - DJB- 9650291221 Sh. Yogesh Kumar (JE) DJB - 9650807961 Sh. Shobhit (EE) DSI IDC- 9821605736 Sh. Dhirender (AE) DSI IDC- 971744536 |
| 2 | Encroachment and unpaved road in front of A 132 wazirpur industrial area (Road from DJB store wazirpur industrial area to shri ram chowk block A wazirpur industrial area via wazirpur industrial area police station) and all wazirpur industrial area roads need to be paved. | MCD DSI IDC | Sh. Shobhit (EE) DSI IDC- 9821605736 Sh. Dhirender (AE) DSI IDC- 971744536 Sh. P K Singh (AC) MCD - 9811103436 |
| 3 | Patch work of road from Mosaic banquet A-2 wazirpur industrial area to Polic station Wazirpur industrial area A block | DSI IDC | Sh. Dhirender (AE) DSI IDC- 971744536 Sh. P K Singh (AC) MCD - 9811103436 |
| 4 | Illegal dumping and burning of garbage. Biomass burning along the roads and in open park 1) park in front of A 83/2 2) adjacent to railway line passing near be area of DSI IDC shed Wazirpur, 3) Open space adjacent to Ajadpur flyover behind machi | MCD DDA Fire Services | Sh. P K Singh (AC) MCD - 9811103436 |

| | | | |
|---|---|--|--|
| | market and railway line, adjacent to nehar near Prembadi underpass, 4)Between A-103/7 Wazirpur industrial area and DDA park | | |
| 5 | No traffic police near Ashok Vihar underpass (Road from Shalimar bagh metro station to Ashok Vihar) | MCD DDA Delhi Traffic Police | Sh. Rajesh (Traffic Inspector)- 8750871466 |
| 6 | Half width of road is blocked due to Sewer work by DJB (Gopal Mandir Road, Near City Park Hotel, Pitampura) | DJB | Sh. Harpinder Singh (EE) PWD - 9811356083 Sh. S N Prasad (EE) - DJB- 9650291221 |



VIII. Inventorization of major point air pollution sources at other priority areas

1. ALIPUR

| Hotspot Name | | ALIPUR | Nodal JEE (Sh. Vikas: 9716577854) |
|--------------|--|--|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Broken Roads/Potholes and Road dust adjacent to Mahalaxmi Castle Village. Road dust due to broken road/potholes from election office at corner to DCF office. | MCD/I&FC | Sh. Inderjeet Singh Lohiya (EE MCD)- 9717788006 Sh. J Kailash- 9999144285 |
| 2 | Labours/construction workers (engaged in renovation of MGIFCC campus building) using Chulhas with wood as fuel. | PWD | Sh. Shyam Mohan (AE PWD)- 8090110099 Sh. Vishal (PWD JE)- 7042639029, Sh. Sajjan (EE PWD)- 7557346696 Contractor- 9643229919 |
| 3 | Open field dust from Open fields/agriculture land in the surrounding area. | Revenue/SDM | Ms. Navneet Mann (SDM Alipur)- 9971660256, 9650986709 |
| 4 | Open burning of Bio Mass inside the DCF campus. | Revenue/ DCF and MGIFCC Administration | Ms. Navneet Mann (SDM Alipur)- 9971660256, 9650986709 Sh. Rahul (PA to DCF)- 9278859914 |

2. AYA NAGAR

| Hotspot Name | | AYA NAGAR | Nodal JEE (Sh. Rohit Kumar Meena: 8700269635) |
|--------------|--|-----------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Dumping of waste at Aya Nagar Main Road near Aya Nagar metro station | MCD | Sh. V.P. Singh, JE: (9717786860) Sh. Viplabh Majumdar, JE: (9910295106) |
| 2 | Dumping of mass waste at Ch. Dharamveer Netaji Marg stretch and Sunday | MCD | |

| | | | |
|---|--|----------------|--|
| | Market Road with probable location of open burning | | |
| 3 | Dumping of waste in open near Arjangarh Air Force Station along the Meharauli-Gurgaon Road | MCD | |
| 4 | Road dust along the stretch of Ch. Dharamveer Netaji Marg and Sunday Market Road | MCD | |
| 5 | Pot holes and improper management of road stretch of Sunday Market Road in Aya Nagar | MCD | |
| 6 | Traffic Congestion at T-point near Aya Nagar Metro Station | Traffic Police | Sh. Kuldeep Singh, TI: (8750871443) |



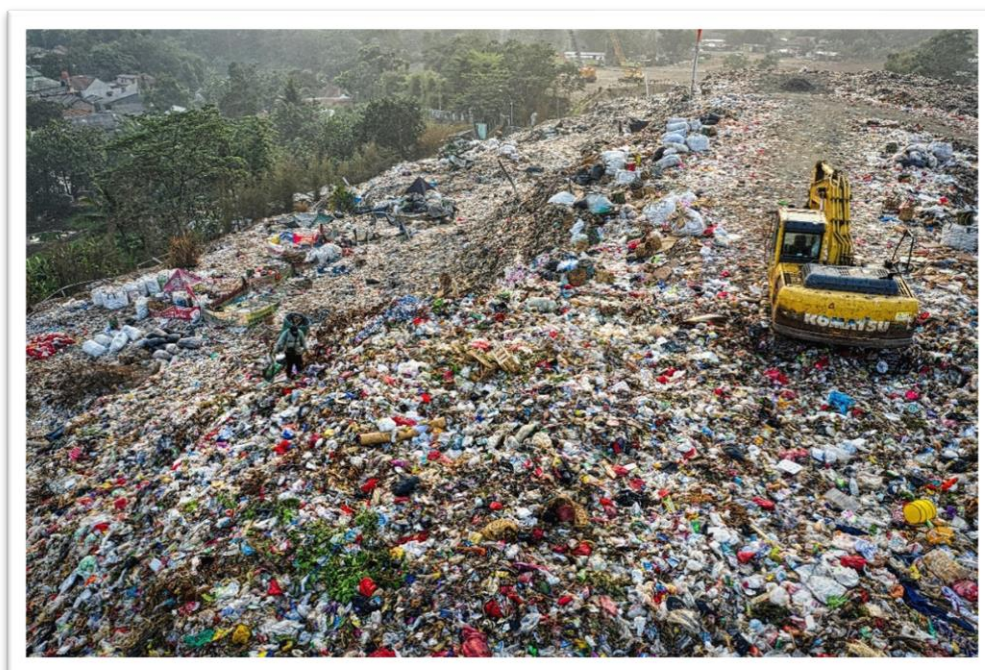
3. BURARI CROSSING

| Hotspot Name | | BURARI CROSSING | Nodal JEE (Sh. Vikas: 9716577854.) |
|--------------|---|---------------------------|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Construction of Arunachal Pradesh Bhawan | Private Project Proponent | M/S Ganpati Construction Company Sh. Vishwajeet (Site Engineer: 7908832833) Sh. Kundan Pandey (Project in charge: 8638864928) |
| 2 | Construction of Sant Nirankari Health City/Hospital | Private Project Proponent | M/S Ahluwalia Contractors (India) Ltd. Sh. Vinod |
| 3 | Open land (Nirankari Ground / DDA Ground) | DDA | - |
| 4 | Traffic Congestion at Burari Crossing | Traffic Police | - |

4. CRRI Mathura Road

| Hotspot Name | | CRRI Mathura Road | Nodal JEE (Sh. Sandeep Panwar: 8218508025) |
|--------------|---|----------------------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Mathura Road Vehicular Pollution (CRRI traffic signal ~40m) | Traffic Police | ACP(Traffic), South-East- (8750871416) Sh. Data Ram, Traffic Inspector, (Sarita Vihar Circle)- (8750871448) |
| 2 | Road dust at Mathura Road and service lanes | PWD | Sh. Sanjay, EE, PWD - (9431954193) Sh. Prashant, AE, PWD - (8210997979) Sh. Hari Ballabh, AE, PWD - (9818210963) Sh. Ravinder Kumar, AE, MCD - (9717787830) |
| 3 | Jhuggis in vicinity using unauthorised fuels/wood/coal for | Local authorities (Revenue/ MCD) | Sh. Ravinder Kumar, AE, MCD - (9717787830) |

| | | | |
|---|--|------------------------|---|
| | cooking and heating during night (75 m) | | |
| 4 | Construction site of DJB STP of 124 MGD site near Timarpur WTE plant (576m). | DJB | Sh. A.M. Sharma, XEN, (9650291540) Sh. Danish Khan, SUEZ, (9773244274) |
| | Road dust at Okhla Vihar road and Jasola Village Link Road (~500m) | MCD/DJB | Sh. Ravinder Kumar, AE, MCD - (9717787830) |
| 6 | Garbage Dumping along Jasola Village Link Road (796m) | MCD | Sh. Ravinder Kumar, AE, MCD - (9717787830) |
| 7 | Timarpur-Okhla WTE plant (556m) | DPCC | DPCC (WMC-II) |
| 8 | Sukhdev Vihar depot (480m) | DTC and Traffic Police | ACP(Traffic), South-East- (8750871416) Sh. Data Ram, Traffic Inspector, (Sarita Vihar Circle)- (8750871448) Sh. R. K. Sharma Manager (Tr.) Sukhdev Vihar Depot (+91-11-26911228 / 26933552) |



5. KSSR

| Hotspot Name | | KSSR | Nodal JEE (Sh. Nikunj Malik: 8851100132) |
|--------------|--|-----------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | CAAQMS is located adjacent to Suraj Khund Road. Vehicular movement on this road leads to Dust Particle Re-suspension. | PWD & MCD | Sh. Sanjay, EE, PWD (9431954193) Sh. Raj Singh, AE, PWD (9313760084) Sh. Jaihind, JE, PWD (8447861054) Sh. SC Yadav, SE, MCD (9717787956) Sh. Chaman Lal, EE, MCD (9811622635) |
| 2 | Around 1 Km from this station, there is illegal dumping of garbage at vacant land adjacent to Sangam Vihar colony. Signs of Garbage burning were observed at this site. (Latitude - 28.50540502, Longitude- 77.25875604) | MCD, DDA | Sh. SC Yadav, SE, MCD (9717787956) Sh. Chaman Lal, EE, MCD (9811622635) |
| 3 | Illegal dumping of C & D waste along the length of Mehrauli Badarpur Road near Tughlakabad Fort | PWD | Sh. Sanjay, EE, PWD (9431954193) Sh. Raj Singh, AE, PWD (9313760084) Sh. Jaihind, JE, PWD (8447861054) |

6. DTU

| Hotspot Name | | DTU | Nodal JEE (Sh. Vikas: 9716577854) |
|--------------|--|-----------------------|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Heavy traffic congestion from DTU main gate to Sant Ravidas DWAR Colony gate, A Block Shahbad Dairy to | Traffic Police | Sh. Umesh Kumar (ACP traffic)- 8750271423 Sh. Satendar kr Rathi (Outer North) - 8750871468 |

| | | | |
|---|---|-------------|---|
| | Barwala Chowk to Maharshi Valimiki Hospital. | | |
| 2 | Illegal garbage dumping and burning in the backside & in front of the PWD office at Shahbad dairy, from Dr. Bhimrao Ambedkar Dwar & Sant Ravidas Dwar, A Block Shahbad Dairy. | MCD/PWD | Sh. Pramod Singhal (AE MCD)- 9717786795 Sh. Rakesh Sharma (JE MCD)- 9718804140 Sh. Vijender Singh (EE PWD)- 8700857103 |
| 3 | Road Dust due to on-going excavation work by DJB for sewer line PWD office Shahbad Dairy, which also lead to traffic congestion. | MCD/PWD/DJB | Sh. Vijender Singh (EE PWD)- 8700857103 Sh. Shubhash Chander (AE PWD)- 9810961880 Sh. Ashish Kumar (EE DJB) - 9868065722 Sh. Deepak (JE DJB)- 9871688831 |
| 4 | Occasional traffic due to cultural events and regular maintenance works of DTU Campus. | DTU | Sh. Karan (DTU JE)- 8130326206 |



7. NORTH CAMPUS DU

| Hotspot Name | | NORTH CAMPUS DU | Nodal JEE (Sh. Vikas: 9716577854) |
|--------------|--|-----------------------|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Construction activity near CAAQMs | | Sh. Vimal jain (Consultant) 9540066948 M/S Pragati Constructions (Charu Pandey JE: 7000598164) |
| 2 | Traffic at Malkaganj Ckawk and GTB Nagar Red Light | Traffic Police | |

8. IGI, T3

| Hotspot Name | | IGI, T3 | Nodal JEE (Sh. Amzad Khan: 8860364102) |
|--------------|--|------------------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Construction of Dwarka Expressway (Linear Project) source of Dust Pollution | NHAI | Sh. J Kumar, Construction Agency: 8860002674 |
| 2. | Heavy vehicular flow at NH 48 causing vehicular emissions leading to air pollution | Traffic Police | — |
| 3 | EIA Project - Constriction of KIRAN NADAR MUSEUM OF ARTS | INDIGO INFRAPROJECTS PVT LTD | Sh. S. Mukherjee, VP projects: 9717420317 |

9. IHBAS

| Hotspot Name | | IHBAS | Nodal JEE (Sh. Sajjan Kumar: 9810894865) |
|--------------|---|---------------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Traffic congestion in front of GTB Hospital Main Gate | Traffic Police, GTB staff | |
| 2 | Friends Colony Industrial Area | DPCC | |
| 3. | DDA unpaved ground at Nand Nagri Petrol Pump | DDA | |

| | | | |
|----|--|-------|---|
| 4 | Mandoli Industrial Area | DPCC | |
| 5. | C&D waste dumping near Tahirpur Village | PWD | Sh. Amrendra Kumar (PWD) - 9868739120 |
| 6. | Casting Yard of NCRTC in CBD ground Karkardooma. | NCRTC | Sh. Praveen Kumar (NCRTC) - 8130444660 Sh. Shambhu Nath Singh (NCRTC) - 7023667930 Sh. Vidya Shankaran (NCRTC) - 7010962750 Sh. Prakash Singh (NCRTC) - 9911111492 Sh. Rohit (NCRTC) - 9910484365 |

10. ITO

| Hotspot Name | | ITO | Nodal JEE (Sh. Shivam Pandey, 7378880086) |
|--------------|---|-----------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Ram Charan Agarwal Chowk (ITO Main circle), vehicular traffic due to heavy movement of vehicles and their idling time for one stretch of road being 150-180 seconds, leads to congestion on road stretches upto 80-120 mts. | Delhi Traffic Police | DCP Central 8130099060 Sh. Jaswant Singh (ACP) 8750871420 |
| 2 | A Construction Site of Northern Railways near Tilak Bridge Metro Station at an aerial radius of around 200 mts. is present. | Northern Railways | Sh. Vipin Sharma (Deputy Chief Eng.) 9717630251 |



11. JLN

| Hotspot Name | | JLN | Nodal JEE (Sh. Siddharth Upadhyay: 8586989950) |
|--------------|--|-----------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Traffic Congestion at kotla mubarakpur road | Traffic department | ACP Traffic: +918750871416 |
| 2 | GPRA colony construction | CPWD | Sh. Sanjay Sinha (manager of ITD cementation Ltd): +918376907789 |
| 3 | Construction of headquarter for CRPF by CPWD | CPWD | Mr. Gopal (AEE): 8755679728 |

12. LODHI ROAD

| Hotspot Name | | LODHI ROAD | Nodal JEE (Sh. Sparsh Chowdhary: 98689 00176) |
|--------------|---|-----------------------|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Traffic congestion at Lodhi Road near Mausam Bhawan | Traffic Police | Sh. Ratnesh Kumar (Inspector, 8750871440) |

13. NAJAFGARH

| Hotspot Name | | NAJAFGARH | Nodal Officer (Sh. Yogendra Tomar: 8447453497) |
|--------------|--|-----------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | There is Brooming of leaves and loose soil around the station and loose soil from fields in Peripheral boundary of CBPACS Campus | DDA MCD | |
| 2 | Instances of C&D material dumping on the road side and loose dust from the road near to CAAQM Station. | DDA MCD | |

14. NATIONAL STADIUM

| Hotspot Name | | NATIONAL STADIUM | Nodal JEE (Sh. Sparsh Chowdhary: 9868900176) |
|--------------|---|------------------------|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Traffic congestion near High Court Parking nearby Gate No. 3 of Stadium | Traffic Police | Sh. Rajnikant Sharma (Inspector, 8750871432) |
| 2 | Clay Tennis Court in vicinity of station, which contribute to dust emission | National Stadium Staff | Sh. Chandra Bhushan (Administrator, 011-23389740, 011-23075065) |

15. NEHRU NAGAR

| Hotspot Name | | NEHRU NAGAR | Nodal JEE (Sh. Siddharth Upadhyay: 8586989950) |
|--------------|---|-----------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Redevelopment of GPR Colony at Srinivaspuri | CPWD | - |

| | | | |
|----|--|-------------------|--|
| 2 | Construction work in PGDAV College | PGDAV college | - |
| 3 | Traffic Congestion at Ashram flyover | Traffic Police | - |
| 4. | Use of Wood as fuel in nearby area of CAAQM station | Local Authorities | - |
| 5 | Construction of residential quarter of NCRTC project at jangpura | NCRTC | Sh. Shubham (Sam India, NCRTC - 95806 72292) |
| 6. | Construction of elevated flyover to connect to NCRTC residential area at nehru nagar | NCRTC | Director Swadeshi Construction (NCRTC - 98990 24680) |

16. NEW MOTIBAGH

| Hotspot Name | | NEW MOTIBAGH | Nodal JEE (Sh. Sparsh Chowdhary: 9868900176) |
|--------------|--|-----------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Safdarjung Railway Station redevelopment work near Kaushal Bhawan-Hotel Leela Palace | IRCON | Details not available |
| 2 | Netaji Nagar Redevelopment Work | NBCC | Sh. RP Singh (9109271620) |
| 3 | Sarojini Nagar GPRA and redevelopment work | NBCC | Sh. RP Singh (9109271620) |

17. NSUT, DWARKA

| Hotspot Name | | NSUT, DWARKA | Nodal JEE (Sh. Amzad Khan: 8860364102) |
|--------------|--|----------------------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Construction work inside NSUT Campus | NSUT | - |
| 2 | Brooming of leaves and loose soil around the station in campus | NSUT, horticulture division, MCD | Sh. Mukesh Singh, Supervisor (NSUT) Sh. Arun Sharma, MCD Inspector. |

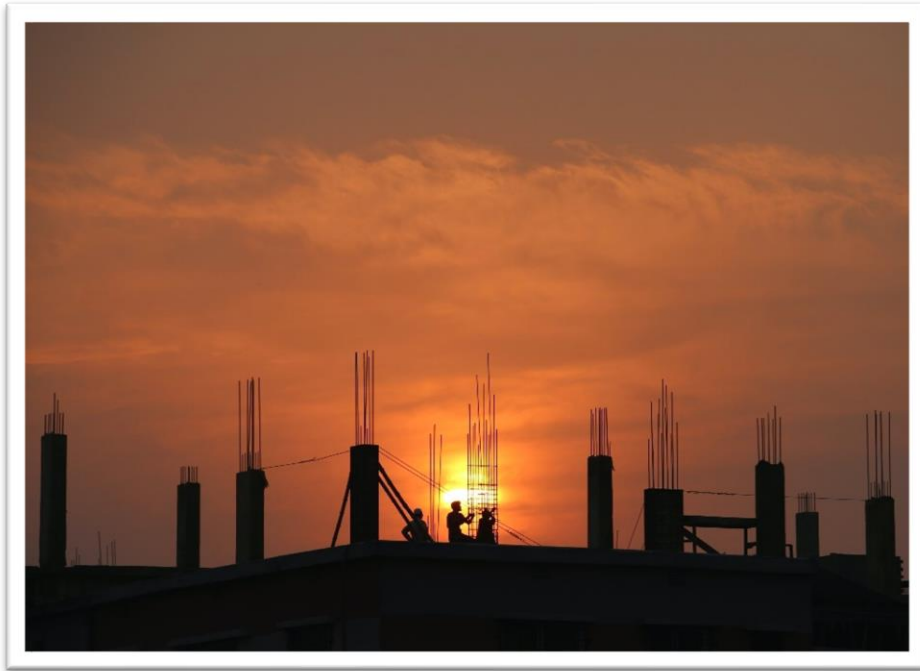
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| 3 | Vehicular emissions from running traffic on main road just adjacent to NSUT campus | — | -- |
|---|--|---|----|

18. PATPARGANJ

| Hotspot Name | | PATPARGANJ | Nodal JEE (Sh. Amritanshu Srivastava:7703890801) |
|--------------|--|------------------------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Road dust in front of Mother Dairy, and Traffic congestion on the Mother Dairy Road/ New Patparganj Road | PWD, MCD, Traffic Department | Sh. Aditya Pratap Singh JE PWD (8077614532), Sh. Inderjeet Pal JE MCD (8588844804) Sh. Susheel TI (8750871471) |
| 2 | Garbage and C&D waste dumping on sides of Narvana Road (28.623105, 77.288956) | MCD | |
| 3 | Unpaved Private Parking at Ganesh Nagar Chowk | | Sh. Amit Singh: 9891151475 Sh. Naval Pasawan caretaker: 8860786745 |
| 4 | Damaged Road at underpass of New Patparganj Road | PWD | |
| 5 | Dust emission from West Vinod Nagar DDA Park (Behind Monitoring Station) | DDA | |

19. PUSA (New Delhi)

| Hotspot Name | | PUSA (New Delhi) | Nodal JEE (Sh. Manish Kumar Awasthi: 8989124339) |
|--------------|--|-----------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Heavy congestion on Shankar Road and Dev Prakash Shastri Marg during peak hours. | Traffic Police | Sh. Rakesh Kumar (Inspector, 8750871460) |



20. PUSA, Central (DPCC)

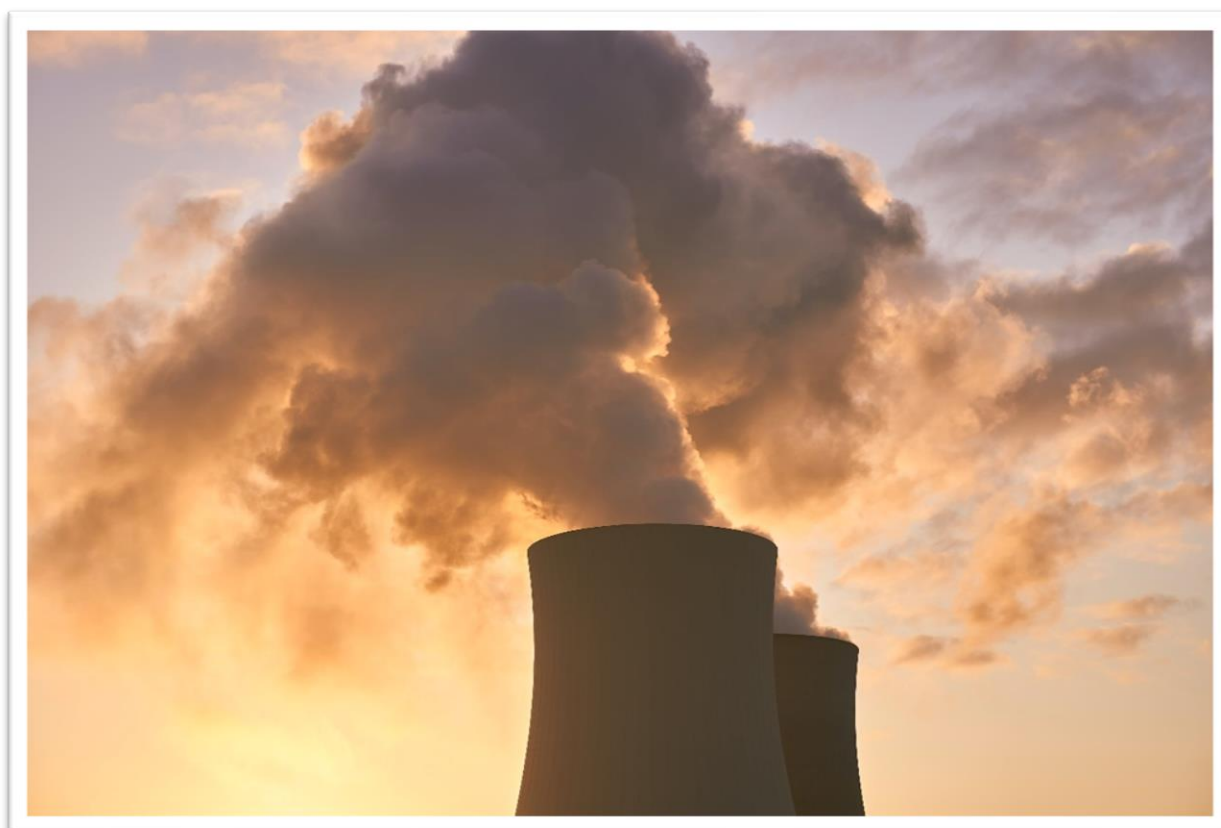
| Hotspot Name | | PUSA, Central (DPCC) | Nodal JEE (Sh. Harshit: 7827180206) |
|--------------|--|----------------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Traffic near Loha Mandi Red light | Traffic Police | |
| 2 | Girdhari Lal Goswami Marg found unpaved shoulders/broken roads. | PWD | |
| 3 | Roads inside Narain Industrial area- Loha Mandi found unpaved and lot of dust observed due to movement of heavy vehicles. | DSIIDC | |
| 4 | Truck/Tampoo found parked in large numbers on broken/unpaved shoulders on PWD Road near Loha Mandi Red light restricting traffic. (Action: Traffic Police) | Traffic Police | |

21. SHADIPUR

| Hotspot Name | | SHADIPUR | Nodal JEE (Sh. Naresh Meena: 8800783321) |
|--------------|---|-------------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1. | Raheja Developers main EIA Project at Patel Nagar Road (Aerial Distance approx. 680 m) | Project Proponent, DPCC | Sh. Shrawan (AO - 8506993037) |
| 2. | Delhi Milk Scheme Burning of biomass inside DMS Campus Dust inside DMS Campus especially along the roads leading to Monitoring Station Dust from the parks located inside DMS Campus | PWD, MCD, DMS | Sh. Shiv Kumar Gupta (AE, PWD - 9811103174) Sh. Parveen Updhyay (JE, MCD - 9899457447) GM DMS (8800354971) |
| 3. | DTC Depot Shadipur (Aerial Distance approx. 535 m) Traffic Movements basically DTC bus main source of PM 2.5 Dust plying inside the DTC Depot | PWD, MCD, DTC | Sh. Shiv Kumar Gupta (AE, PWD - 9811103174) Sh. Parveen Updhyay (JE, MCD - 9899457447) |
| 4. | Traffic Congestion from DMS Campus to Girdhari Lal Chowk | Delhi Traffic Police | Sh. Naval Kishore (SI, Delhi Police - 9911072059) |
| 5. | Major potholes and road dust present on Main Mathura Marg & Goswami Girdhari Lal Marg | PWD | Sh. Shiv Kumar Gupta (AE, PWD - 9811103174) |

22. SIRIFORT

| Hotspot Name | | SIRIFORT | Nodal JEE (Sh. Krishan Kaushik: 9908 10906) |
|--------------|--|-----------------------|---|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | C&D sites mostly less than 500 sqm area within 2 km radius of CAQM Station | MCD | |
| 2 | Vehicle parking in front of CAQM station | MCD | |
| 3 | Approximately 100 m road stretch (dusty service road with patches of broken top layer) Sri Aurobindo Marg, Block A, Bhim Nagri, Delhi | PWD | |



23. SONIA VIHAR

| Hotspot Name | | SONIA VIHAR | Nodal JEE (Sh. Mahavir Burnwal: 80923 30023) |
|--------------|---|-----------------------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Metro construction near Khajuri Chowk and Metro construction on Wazirabad Road | DMRC / KEC International | Sh. Sunil Singh: 8451062450 |
| 2 | Traffic Congestion at Khajuri Chowk | Delhi Traffic Police | |
| 3 | Traffic Congestion at Pushta Road | Delhi Traffic Police | |
| 4 | Construction of Delhi-Saharanpur-Dehradun greenfield highway | Gawar Construction Limited / NHAI | Sh. Vikas Nagar: 9416536090 |
| 5 | C&D waste dumping alongside Pushta Road | Gawar Construction Limited / NHAI | Sh. Vikas Nagar: 9416536090 |
| 6 | Waste dumping and burning of solid waste near boundary wall of Water Treatment Plant, Sonia Vihar | MCD | |
| 7 | Accumulation of Dust and no sweeping of Wazirabad Road | PWD | |
| 8 | Road leading to CAAQMS within the premise of WTP, Sonia Vihar is not black topped | DJB | |



24. SRI AUROBINDO MARG

| Hotspot Name | | SRI AUROBINDO MARG | Nodal JEE (Sh. Prashant Gaurav,7303795008) |
|--------------|---|-----------------------|--|
| S. No. | Identified Sources of Pollution / Regarding | Concerned Departments | Concerned Officials |
| 1 | Construction Work inside NITRD Campus | NITRD | Sh. Arun Kumar Gupta (Mob. 72176 43021) |
| 2 | Road Side Dust Near NITRD exit gate | PWD | |
| 3 | Traffic Congestion at traffic signal near Entry Gate of NITRD | Traffic Police | |
