



Orientation Conclave

Air Quality Management: Building Strategies for Clean Air
Department of Environment, Government of West Bengal
In collaboration with Centre for Science and Environment

Venue: Hotel Fern Residency, New Town, Kolkata
February 22, 2019

Urban air quality management is a complex challenge that requires multi-sectoral and coordinated action to address rising air pollution from multiple sources in our rapidly growing cities. Explosive motorisation, booming construction activities, massive waste generation that often lead to open burning for easy disposal, dispersed solid fuel use, and small industrial units are cumulatively and continuously fouling up the air in our cities today. To this is added episodic pollution from biomass and crop residue burning. As a result, air quality is worsening not only in big cities but also in smaller cities and towns with serious public health consequences. Kolkata and Howrah in Kolkata Metropolitan Development Area (KMDA) are experiencing rising pollution levels as well as winter smog episodes. Air quality in smaller towns is also affected. This demands effective mitigation strategies as well as preventive measures to avert public health crisis even as cities grow economically.

Urban air quality monitoring and management have already taken roots in West Bengal. First generation action that include improvement in emissions standards for industry and vehicles, shifting of polluting industries, phasing out of old vehicles, public transport reforms, are among some of the key measures that have already been initiated. But obstinate pollution curve demands bigger scale and greater stringency of action for effective and sustained reduction over time. Available data shows that the annual average level of particulate matter less than 10 micron size will have to be halved from the 2017 level able to meet the National Ambient Air Quality Standards. This also demands sector-wise reduction target to meet the overall air quality targets. To meet this challenge and to build momentum of second-generation reforms for clean air, the State Government has framed Comprehensive Clean Air Action Plan to enable time bound, integrated and multi-sectoral action. This has set the stage for next round of deliberation to focus on the key governing principles and comprehensive design details of the priority mitigation strategies for implementation.

To enable this, a collaborative platform has been created along with the Department of Environment, Government of West Bengal to initiate a series of orientation workshops to bring together key implementing agencies, regulatory authorities and key stakeholders for knowledge sharing on critical strategies for urban air quality management in cities of KMDA. This platform will bring together key stakeholders, national and international experts for cross learning and to strengthen the roadmap for implementation.

This orientation conclave, the first in the series, will focus on what cities can do on a priority basis within the city limits. Inside the cities vehicles and waste –solid waste, construction and demolition waste and dust from construction, have emerged as the critical challenge for pollution control. This requires diverse and advanced strategies for emissions monitoring and reduction from on-road fleet of vehicles, scrapping of old vehicles, integrated public transport system, quicker transition to electric mobility for zero emissions and effective strategies for waste control from construction, solid waste and crop burning. The national and international experts who will convene for this orientation workshop will bring out the best practice approaches towards air quality management, advanced strategies for emissions control from on-road vehicles, deployment strategies for public transport, electric vehicles and link with urban planning, and waste management encompassing construction dust control, construction and demolition waste, and open burning of wastes and crop residues. This multi-sectoral discussion is designed for the implementing agencies including State Pollution Control Board, Transport Department, Municipal Agencies, Urban Development Department, and Bus Transport Corporations among other relevant implementing bodies.



Programme

Registration and High Tea: 9:00 am to 10:00 am

Inaugural session: Setting the agenda for urban air quality management in cities

Overview of the clean air action planning, emerging approaches to air quality management and monitoring, and setting of the agenda for discussion on key sectoral challenges and solutions within the city.

This session to be further developed based on inputs from the Environment Department

Time	Session	Speakers/ Panelists
10:00 am to 10:30 am	Welcome remarks and overview on clean air planning for cities	Anumita Roychowdhury, Executive Director – Research and Advocacy, CSE
10:30 am to 10:45 am	Address by Chief Guest	Indevar Pandey, IAS, Additional Chief Secretary, Department of Environment, Govt. of West Bengal

Tea break: 11:15 am to 11:30 am

Technical session 1: Advanced Strategies for Monitoring and Reducing Emissions from On-road Vehicles

This session will focus on the advancement needed in monitoring of emissions from on-road vehicles and new approaches for effective emission control. This is particularly important for BSIV and upcoming BSVI vehicles that will now dominate the market. This will highlight the advancement and preparedness needed for on-road surveillance and fleet management to reduce real world emissions. This will also highlight the emerging unique challenge of scrappage policy and facilities needed in cities linked to phase-out of old vehicles. This will also require urban planning strategies.

Time	Session	Speakers/ Panelists
11:30 am to 11:40 am	Setting the Agenda	Anumita Roychowdhury, Centre for Science and Environment
11:30 am to 11:40 am	Advancement in air quality monitoring – realtime source apportionment	Tanushree Ganguly, Centre for Science and Environment
11:40 am to 12:00 pm	New generation approaches and techniques for on-road emissions monitoring – global learning	Anup Bandivadekar, Programme Director, International Council on Clean Transportation, USA
12:00 pm to 12:20 pm	Advancing emissions inspection: Advanced I/C centres; real-world emission testing; using on-board diagnostic system and policy for remote sensing to detect highly polluting vehicles	Sanjay Datar, General Manager, Business Development and Corporate Planning, Automotive Research Association of India, Pune

Case Studies to capture lessons from ground

12:20 pm to 12:30 pm	Setting up system for vehicle scrappage in Delhi	Sumit Issar, Managing Director, Mahindra Accelo B.B.Singh, CMD, Metal Scrap Trading Corporation (MSTC), India
12:30 pm to 12:40 pm	Experience and learning from Remote Sensing in Kolkata	Amitabha Sengupta, Joint Secretary & Addl. Director, Department of Transport, Government of West Bengal (TBC)
12:40 pm to 1:30 pm	Moderated discussion	

Lunch: 1:30 pm to 2:15 pm



Technical session 2: Public transport and electric mobility

Public transport strategies and electric mobility will be critical approaches to clean up the air in Kolkata and other cities. This session will highlight the key transportation and mobility strategies that have worked in other cities to reduce air pollution. This will capture global and national learning on electric mobility especially in the bus and para-transit sectors. This will also sensitise the linkage between urban planning and transportation and use of parking management for clean air.

Time	Session	Speakers/ Panelists
2:15 pm to 2:45 pm	Overview on mobility strategies for reducing air pollution (including parking management policy and strategies and link between urban planning and transport)	Anumita Roychowdhury, Centre for Science and Environment
2:45 pm to 3:00 pm	Agenda of modernization, affordability and financial sustainability of public transport	Gaurav Dubey, Centre for Science and Environment
3:00 pm to 3:20 pm	Global learning: Hong Kong's experience with public transport integration	Kevin Kiang, Operations Manager – Light Rail and Bus, MTR Corporation Limited, Hong Kong
Case Studies to capture lessons from ground		
3:20 pm to 3:35 pm	Electric mobility and public transport – Indian and global experiences	Anup Bandivadekar, International Council on Clean Transportation
3:35 pm to 3:45 pm	How cities including smaller cities leapfrog to electrification of para-transit – case of Lithium Cabs	Sanjay Krishnan, Founder, Lithium Urban Technologies, Bengaluru
3:45 pm to 4:00 pm	Moderated discussion	

Tea break: 4:00 pm to 4:15 pm

Technical session 3: Managing waste for clean air

Improper management of waste is one of the major contributors to air pollution. How to reduce fugitive dust from construction activities? How to manage storage and transportation of construction and demolition waste to minimize dust pollution and convert the waste into a resource for city's development? What are some of the best practices in cities in India? How do we control burning of crop-waste in rural areas and garbage in the urban areas? This session will explore these issues.

Time	Session	Speakers/ Panelists
4:15 pm to 4:30 pm	Construction and demolition waste – policy and strategies	Avikal Somvanshi, Centre for Science and Environment
Case Studies to capture lessons from ground		
4:30 pm to 4:45 pm	How recycling facilities are being set up to manage and recycle C&D Waste – experience from Delhi	Arun Sharma, Assistant Vice President, IL&FS Waste Management and Urban Services Ltd.
4:45 pm to 5:00 pm	Monitoring dust from construction activities in Delhi	Mohan George, Scientist D, Air Lab, DPCC, Government of NCT of Delhi
5:00 pm to 5:15 pm	Practitioner's insight: How CPWD is using recycled C&D waste and controlling dust	BB Makkar, Chief Project Manager, (Supreme Court Construction Project) – CPWD
5.15 pm to 5.20 pm	Insight into emissions from crop burning	Polash Mukerjee, Centre for Science and Environment
5:20 pm to 5:30 pm	Moderated discussion	