

Clean Air: Need for Multi-Agency Coordination & Challenges of Effective Policy

Agencies

- **Delhi Government**
 - LG, Minister, Mayor, Chief Secretary, Commissioners of MCD, DPCC
- **Governments of Haryana, UP, Punjab**
 - Ministers, Chief Secretaries, Environment and Agriculture Secretaries
 - DMs/Commissioners of Gurgaon, Faridabad, Ghaziabad, Noida
- **Government of India**
 - Ministry of Environment, Ministry of Agriculture, Ministry of Urban Development, Ministry of Power, Ministry of Petroleum
 - CPCB

Co-ordination Committees

- High Level Task Force chaired by Principal Secretary to PM
- Ministers Committee-headed by Minister, MoEFCC and all Ministers of NCR States are Members
- High Level Steering Group headed by Secretary, MoEFCC
- State Level Steering Committee in Delhi headed by LG
- Steering Committee in State Governments headed by Chief Secretary

Supreme Court, EPCA, GRAP, CAP

- Supreme Court hears air pollution matters on a weekly basis
 - Orders on petcoke, BSVI rollout, PUC Centres etc
- EPCA's reports filed directly in the Supreme Court
- MoEFCC responds to these reports
 - Conflict in the technical views of EPCA and CPCB
 - Role of MoEFCC in bringing harmony in these views
 - Orders issued under Graded Response Action Plan (GRAP) by EPCA on recommendations of Task Force headed by Member Secretary, CPCB
 - Medium Term actions notified under Comprehensive Action Plan (CAP) and monitored by Supreme Court

Results - Comparative AQI status from January to December-31, 2018

Category		2016-354 Days	2017-365 Days	2018-365 Days	2016	2017	2018
Good	(0-50)	0	2	0	108	152	159
Satisfactory	(51-100)	25	45	53			
Moderate	(101-200)	83	105	106			
Poor	(201-300)	120	115	113	246	213	206
Very Poor	(301-400)	101	89	73			
Severe	(>401)	25	9	20			

Results-Central Pollution Control Board- Annual Average Values of CAAQMS Stations in Delhi

Year	PM _{2.5} in µg/m ³	Reduction over previous year	PM ₁₀ in µg/m ³	Reduction over previous year
2016	135	---	291	---
2017	124	8%	266	8%
2018	115	7%	243	8%

Challenges-Stubble burning by Farmers

- Not very successful this year
 - 20% reduction in Haryana
 - No significant reduction in Punjab
- Timely Rollout?
- Adoption by Farmers?
- Recurring expenses too high?
- Plugging loopholes for full rollout in 2019
- Other ex-situ options –firing in all thermal plants in the NCR States mandatory

Challenges - Firecrackers

- Order of Supreme Court on Green Crackers not followed
- Grey market sales-roughly same level as last year
- Acceptance by public?
- Manufacturers coming round –should be ready with low emission crackers this year
- Material testing facility being set up
- Implementation challenges

Challenges - Technology

- Retro fitting of older diesel vehicles
- Retro fitting of DG sets
- Removing PM from the ambient atmosphere at scale
- Low cost monitoring networks
- Low cost and source apportionment studies which give fast results
- Any news ideas welcome

NCAP-National Clean Air Programme

- City specific action plan for 102 non attainment cities
- Working in close collaboration with States
- Co-investment by State Governments
- Aligning with existing Government programs- Smart City, E-mobility etc.
- Formal launch by Hon'ble Minister, MoEFCC today afternoon.

Thank You