

# Workshop of National Knowledge Network (NKN) to support National Clean Air Programme

14-15 October 2019

Mercury Hall, Indira Gandhi Pratishthan

Kathauta Chauraha Rd, Vibhuti Khand, Gomti Nagar, Lucknow

## Agenda

14 October 2019 (Day 1)		
Registration: 7.30 to 8.30		
Inaugural Session Part-1		
09.15	Arrival of Hon'ble Chief Minister, Uttar Pradesh	
09.15-09.20	Welcome of guests with flowers	
09.20-09.25	Inauguration of Workshop and lighting of lamp by Hon'ble Chief Minister, Uttar Pradesh	
09.25-09.30	Welcome Address	Dr. S. N. Tripathi, National Nodal Faculty, NKN to NCAP
09.30-09.35	Inaugural Remarks	Shri J. P. S. Rathore, Chairman, UP PCB
09.35-09.40	Hon'ble Chief Minister will	1. Launch 'Clean Air Mobile App' 2. Inaugurate 03 CAAQMS in the city of Meerut 3. Announce 09 regional environmental monitoring control rooms
09.40-09.45	Inaugural Remarks	Shri. Dara Singh Chauhan, Hon'ble Minister, Forest, Environment & Climate Change, GoUP
09.45-09.55	Chief Guest's Address	Shri. Yogi Adityanath Ji, Hon'ble Chief Minister, Uttar Pradesh
09.55-10.00	Vote of Thanks	Shri Anil Sharma, Hon'ble Minister of State, Environment, Forest and Climate Change, Government of Uttar Pradesh
10.00	Presentation of memento to Hon'ble Chief Minister, Uttar Pradesh	
Inaugural Session Part-2		
10.00-10.10	Message from Hon'ble Minister, MOEF&CC	Shri Prakash Javadekar Ji, Hon'ble Minister of Environment, Forest and Climate Change, Govt. of India
10.10-10.15	Inaugural Remarks	Smt Nidhi Khare, Joint Secretary, MoEF&CC, Govt. of India
10.15-10.20	Inaugural Remarks	Prof. Abhay Karandikar, Director, IIT Kanpur
10.20-10.25	Inaugural Remarks	Shri Manoj Kumar Singh, Principal Secretary, Urban Development, GoUP
10.25-10.30	Inaugural Remarks	Shri S.P.S Parihar, Chairman, Central Pollution Control Board
10.30-10.35	Inaugural Remarks	Shri Anil Sharma, Hon'ble Minister of State, Environment, Forest and Climate Change, GoUP
10.35-10.40	Vote of Thanks	Shri Ashish Tiwari, Member Secretary, UP PCB
10.40-10.45	Presentation of memento to all dignitaries	
High Tea 10.45-11.40		
Session 1: Introduction		
Rapporteurs: 1. Mr. Ajit Suman, Uttar Pradesh Pollution Control Board 2. Ms. Maya Verma, Uttar Pradesh Pollution Control Board		
Chairperson: Smt. Nidhi Khare, Joint Secretary, MoEF&CC		
11.40-11.55	A hybrid approach for source apportionment of air pollution in India	Dr. S.N. Tripathi, National Nodal Faculty, NKN to NCAP
11.55-12.05	Role of Central Pollution Control Board in NCAP Implementation	Dr. Prashant Gargava, Member Secretary, Central Pollution Control Board
Session 2: The Great Gangetic Plains: Major Battlefield for Air Pollution		
Rapporteurs: 1. Shri Girish Arya, Uttar Pradesh Pollution Control Board 2. Ms Lata Gangwar, Uttar Pradesh Pollution Control Board		

<b>Moderator: Dr. B.R. Gurjar, IIT Roorkee</b> <b>Alternate Moderator: Shri Aditya Negi, MS, Himachal Pradesh PCB</b>		
12.05-12.45	<b>Joint presentation on Activities under NCAP &amp; Best Practices by PCB and nodal faculty of:</b> <b>UP, Punjab, Haryana, Chandigarh</b> Presentation will be coordinated by: <b>Dr. Ravindra Khaiwal, PGIMER</b> (Presentation of 20 mins followed by discussion)	<ul style="list-style-type: none"> <li>• Dr. S. N. Tripathi, IIT Kanpur</li> <li>• Shri Krunesh Garg, MS, Punjab PCB</li> <li>• Dr. Ravindra Khaiwal, PGIMER Chandigarh</li> <li>• Shri S. Narayanan, MS, Haryana PCB</li> <li>• Dr. Mayank Kumar, IIT Delhi</li> <li>• Shri Ashish Tiwari, MS, UP PCB</li> <li>• Dr. Suman Mor, Panjab University</li> <li>• Shri T.C Nautiyal, MS, Chandigarh PCC</li> </ul>
<b>Lunch 12.45-13.45 at Ground floor lounge, Earth Building</b>		
<b>Session 3: Panel Discussion on 'NCAP - Partnerships for Support'</b>		
<b>Rapporteurs: 1. Mr. Samrendra, Uttar Pradesh Pollution Control Board</b> <b>2. Ms Surabhi, Uttar Pradesh Pollution Control Board</b> <b>Moderator: Ms. Puja Tewary, Bloomberg Philanthropies</b>		
13.45-14.45	<b>Panelists:</b> Smt. Kalpana Awasthi, Principal Secretary, EF&CC, Govt. of UP Smt. Nidhi Khare, Joint Secretary, MoEF&CC Mr. Saba Kalam, Climate Change, Resilience and Energy, UNDP Dr. Urvashi Narain, Lead Economist, World Bank Ms. Marylaure Crettaz, Swiss Agency for Development and Cooperation Mr. Atul Bagai, Head of Country Office India, UNEP Mr. Vijay Chadda, CEO, Air Pollution Action Group	
<b>Tea 14.45-15.00</b>		
<b>Session 4: Himalayan regions</b>		
<b>Rapporteurs: 1. Dr. Anant Dubey, Uttar Pradesh Pollution Control Board</b> <b>2. Mr. Sushil Agrahari, Uttar Pradesh Pollution Control Board</b> <b>Moderator: Shri Krunesh Garg, MS, Punjab PCB</b> <b>Alternate Moderator: Dr. Abhishek Chakraborty, IIT Bombay</b>		
15.00-15.30	<b>Joint presentation on Activities under NCAP &amp; Best Practices by pollution control boards and nodal faculty of:</b> <b>Uttarakhand, Himachal Pradesh, Jammu and Kashmir</b> Presentation will be coordinated by: <b>Dr. B.R. Gurjar, IIT Roorkee</b> (Presentation of 15 mins followed by discussion)	<ul style="list-style-type: none"> <li>• Dr. B.R. Gurjar, IIT Roorkee ,</li> <li>• Shri Aditya Negi, MS, HP PCB</li> <li>• Dr. Ankit Tandon, Central University of Himachal Pradesh</li> <li>• Mr S.P Subudhi, MS, Uttarakhand PCB</li> <li>• Shri B.M. Sharma, MS, J&amp;K PCB</li> <li>• Dr. Shweta Yadav, Central University of Jammu</li> </ul>
15.45-19.00	Lucknow City Heritage tour	UP PCB and UPSTDC
19.30-22.00	Reception Dinner at Magnolia Ballroom, Hilton Garden Inn, Lucknow	
<b>15 October 2019 (Day 2)</b>		
<b>Session 1: Panel Discussion on Cost effective monitoring and mitigation</b>		
<b>Rapporteurs: 1. Mr. P. K. Mishra, Uttar Pradesh Pollution Control Board</b> <b>2. Mrs. Shahla Bilqees Khan, Uttar Pradesh Pollution Control Board</b> <b>Moderator: Dr. Bharadwaj Amrutur, Professor, IISc Bangalore</b>		
8.45-9.20	<b>Panelists:</b> Ronak Sutaria, Respirer Living Sciences Mr. Arun Duggal, Founder, CERCA Mr. Abhishek Singh, Eco Green Energy Lucknow Pvt. Ltd. Mr Kushagra Srivastava, Chakr Innovation	

	Mr. Irfan Pathan, PiGreen Innovations	
<b>Session 2: International Experts</b>		
<b>Rapporteurs: 1. Mrs. Shadma Naaz, Uttar Pradesh Pollution Control Board</b> <b>2. Mr. Ashish, Uttar Pradesh Pollution Control Board</b> <b>Chairperson: Prof. S. N. Tripathi, IIT Kanpur</b>		
9.20-9.40	Keynote by International expert	Prof. A.R. Ravishankara, Distinguished Professor, Departments of Chemistry and Atmospheric Science, Colorado State University
<b>Session 3: Perspective of International Organizations</b>		
<b>Rapporteurs: 1. Mrs. Shadma Naaz, Uttar Pradesh Pollution Control Board</b> <b>2. Mr. Ashish, Uttar Pradesh Pollution Control Board</b> <b>Chairperson: Former IAS Dr. Anshu Bharadwaj, CSTEP</b> <b>Alternate Chairperson: Dr. Ravindra Khaiwal, PGIMER Chandigarh</b>		
9.40-9.50	Presentation 1	Mr Valentin Foltescu, United Nations Environmental Program
9.50-10.00	Presentation 2	Karin Shepardson, Lead Environment Specialist, World Bank
<b>Session 4: NGO's Green Jobs, Clean Air Auditing, Green/Clean Air Start-ups</b>		
<b>Rapporteurs: 1. Shri Girish Arya, Uttar Pradesh Pollution Control Board</b> <b>2. Ms Lata Gangwar, Uttar Pradesh Pollution Control Board</b> <b>Chairperson: Shri Ashish Tiwari, MS, UP PCB</b> <b>Alternate Chairperson: Dr. Ankit Tandon, Central University of Himachal Pradesh</b>		
10.00-10.10	Presentation 1	Dr. Arvind Kumar, Lung Care Foundation
10.10-10.20	Presentation 2	Mr. Sumit Sharma, The Energy and Resource Institute (TERI)
10.20-10.30	Presentation 3	Ms. Pratima Singh, CSTEP
10.30-10.40	Presentation 4	Dr. Santosh Harish, Centre for Policy Research (CPR)
10.40-10.50	Presentation 5	Disha Agarwal, Shakti Sustainable Energy Foundation
10.50-11.00	Presentation 6	Aarti Khosla, Climate Trends
11.00-11.10	Presentation 7	Anumita Roy Chowdhury, Centre for Science and Environment (CSE)
<b>Tea will be served during presentation</b>		
<b>Session 5: Inner and Peninsular States</b>		
<b>Rapporteurs: 1. Mr. Sarendra, Uttar Pradesh Pollution Control Board</b> <b>2. Ms. Surbhi, Uttar Pradesh Pollution Control Board</b> <b>Moderator: Prof. Sharad Gokhale, IIT Guwahati</b> <b>Alternate Moderator: Mr S.P Subudhi, MS, Uttarakhand PCB</b>		
11.10-11.30	<b>Joint presentation on Activities under NCAP &amp; Best Practices by pollution control boards and nodal faculty of: Rajasthan and Telangana</b>  Presentation will be coordinated by: <b>Dr. Vijay Kanawade, Univ. of Hyderabad</b> (Presentation of 10 mins followed by discussion)	<ul style="list-style-type: none"> <li>• Dr. Vijay P. Kanawade, University of Hyderabad</li> <li>• Smt. Shailja Deval, MS, Rajasthan PCB</li> <li>• Prof A. B. Gupta and Prof. R. K. Vyas, MNIT Jaipur</li> <li>• Shri V. Anil Kumar, MS, Telangana PCB</li> </ul>
<b>Session 6: Coastal regions: catching up</b>		
<b>Rapporteurs: 1. Mr. Ajit Suman, Uttar Pradesh Pollution Control Board</b> <b>2. Ms. Maya Verma, Uttar Pradesh Pollution Control Board</b> <b>Moderator: Sri Rajeev Lochan Bakshi, MS, Jharkhand PCB</b> <b>Alternate Moderator: Dr. Subrata Hait, IIT Patna</b>		
11.30-12.20	<b>Joint presentation on Activities under NCAP &amp; Best Practices by pollution control boards and nodal faculty of:</b>	<ul style="list-style-type: none"> <li>• Dr Sachin S. Gunthe, IIT Madras,</li> <li>• Shri E. Ravendiran, MS, Maharashtra PCB,</li> <li>• Dr. Abhishek Chakraborty, IIT Bombay</li> </ul>

	<p><b>Tamil Nadu, Maharashtra, Odisha, Andhra Pradesh, Gujarat</b></p> <p>Presentation will be coordinated by: <b>Dr Sachin S. Gunthe, IIT Madras</b> (Presentation of 25 mins followed by discussion)</p>	<ul style="list-style-type: none"> <li>• Shri D. Sekar, MS, Tamil Nadu PCB,</li> <li>• Shri Debidutta Biswal, MS, Odisha PCB</li> <li>• Dr. V. Vinoj, IIT Bhubaneswar,</li> <li>• Shri Vivek Yadav, MS, AP PCB,</li> <li>• Dr. Suresh Jain, IIT Tirupati,</li> <li>• Shri Tabhani, MS, Gujarat PCB,</li> <li>• Dr. Lokesh Sahu/Dr. Neeraj Rastogi, PRL, Ahmedabad</li> </ul>
<b>Tea</b>		
<p><b>Session 7: The Great Gangetic Plains: Major Battlefield for Air Pollution (contd.) Rapporteurs:</b></p> <p><b>1. Dr. Anant Dubey, Uttar Pradesh Pollution Control Board</b> <b>2. Mr. Sushil Agrahari, Uttar Pradesh Pollution Control Board</b></p> <p><b>Moderator: Dr Sachin S. Gunthe, IIT Madras</b> <b>Alternate Moderator: Shri Vivek Yadav, MS, AP PCB</b></p>		
12.20-13.00	<p><b>Joint presentation on Activities under NCAP &amp; Best Practices by PCB and nodal faculty of:</b> <b>Bihar, Jharkhand, West Bengal, Assam</b></p> <p>Presentation will be coordinated by: <b>Dr Abhijit Chatterjee, Bose Institute, Kolkata</b> (Presentation of 20 mins followed by discussion)</p>	<ul style="list-style-type: none"> <li>• Prof. Sharad Gokhale, IIT Guwahati</li> <li>• Sri Alok Kumar, MS, Bihar PCB</li> <li>• Dr. Subrata Hait, IIT Patna</li> <li>• Shri Rajeev Bakshi, MS, Jharkhand PCB</li> <li>• Dr. Suresh Pandian Elumalai, IIT Dhanbad</li> <li>• Shri Rajesh Kumar, MS, WB PCB</li> <li>• Dr Abhijit Chatterjee, Bose Institute, Kolkata</li> <li>• Shri B. N. Das, MS, Assam PCB</li> </ul>
<p><b>Session 8: Group Activity-Pollution control with respect to different sectors</b></p> <p><b>Rapporteurs: 1. Mr. P. K. Mishra, Uttar Pradesh Pollution Control Board</b> <b>2. Mrs. Shahla Bilqees Khan, Uttar Pradesh Pollution Control Board</b></p>		
13.00-13.05	<p><b>Draw lots to divide into five groups and select a group leader for each group</b></p> <p>Group 1: Transport Group 2: Construction Group 3: Industrial Group 4: Urban Group 5: Rural</p>	All State board and nodal faculty members
13.05-13.15	Discussion within each group for mitigation strategies and novel endeavors in pollution control for respective sectors	All State board and nodal faculty members
13.15-13.25	Group leaders will stay in place and other participants will move to different groups and share ideas	All State board and nodal faculty members
13.25-13.50	Summary of discussion from each group (5 mins each)	Group leaders
<b>Session 9: Conclusion</b>		
13.50-13.55	Concluding Remarks	Dr. S. N. Tripathi, IIT Kanpur
13.55-14.00	Vote of Thanks	Shri Ashish Tiwari, MS, Uttar Pradesh PCB
<b>Lunch Buffet or Packed Lunch</b>		

\*PCB – Pollution Control Board

\*\*PCC – Pollution Control Committee

To address the growing menace of Air Pollution in India, the National Clean Air Program, NCAP, was launched in January 2019, to target Air Pollution in a comprehensive manner. The first phase of NCAP is being implemented with an Apex Committee in place and Dr. S.N. Tripathi, Professor, IIT Kanpur is an expert member of this Committee.

A total of 18 States have been identified where significant reduction of PM is required. The State Pollution Control Boards (SPCB) in these States will require regular inputs from active researchers in addition to helping them with capacity building. In this context, it was suggested that technical institutions, universities or national labs with an active air quality research program act as knowledge partner of SPCB in respective states. Subsequently, an umbrella alliance of IITs/Labs/Universities across 18 states who can act as knowledge partner to National Clean Air Program, NCAP was created. IIT-K was designated as national nodal institution and Dr. S.N. Tripathi, Professor, IIT Kanpur was appointed as the national nodal faculty.