



TOGETHER FOR CLEAN AIR IN JHARKHAND

INTERNATIONAL DAY OF CLEAN AIR FOR BLUE SKIES

06 September 2023
Ranchi



INTRODUCTION

The Jharkhand State Pollution Control Board (JSPCB) and Centre for Environment and Energy Development (CEED) hosted a stakeholder conference “Together for Clean Air : Ensuring Blue Skies in Jharkhand” on September 6, 2023 in Ranchi to promote awareness and united efforts to safeguard air quality in the state. The theme of this year’s International Day of Clean Air for Blue Skies, 'Together for Clean Air' encourages collaboration, partnerships, and shared responsibility for reducing pollution, emphasizing the importance of clean energy practices, reduced emissions, and sustainable transportation.

Air pollution is one of the most pressing challenges of our time, affecting not only human health but also exerting a profound impact on the climate, the economy, and the overall environment. The United Nations General Assembly adopted a resolution in 2019 to establish the International Day of Clean Air for Blue Skies highlighting global awareness on air pollution and the need for robust actions to improve air quality.

The "Together for Clean Air: Ensuring Blue Skies in Jharkhand" initiative aimed to maintain Jharkhand's clean air through technological innovations, green infrastructure, and public awareness campaigns.



INAUGURAL SESSION

The inaugural session was graced by the presence of several eminent speakers who shared their valuable insights and expertise. The session began with a welcome address by Shri Y.K Das (IFS), Member Secretary, Jharkhand State Pollution Control Board. The session was addressed by Dr. Manish Kumar, Director, Research & Development, Centre for Environment and Energy Development (CEED), Dr. D.K Saxena (IFS), APCCF cum Chairman, Air Quality Monitoring Committee (AQMC), GoJ, Shri N.K. Singh (IFS), APCCF-Development, Department of Forest, Environment and Climate Change, Jharkhand, Dr. Sanjay Srivastava (IFS), PCCF – HoFF, DoFECC, GoJ. The keynote address was given by Shri Arun Kumar Singh (IAS), Development Commissioner & Additional Chief Secretary, Department of Health, Family Welfare and Medical Education, GoJ.



Key Highlights

- The air quality management faces challenges due to rapid urbanization, increased emissions, resource scarcity, and cultural barriers. Adopting eco-friendly technologies requires government policies, community engagement, and private-sector collaboration. The initiative emphasizes the collective effort of government, businesses, and communities to ensure a sustainable environment.
- Jharkhand is actively participating in the National Clean Air Program, and as per the mandates, preparation of the Clean Air Action Plan (CAAP) for 3 cities Dhanbad, Ranchi and Jamshedpur, identified as non-attainment cities and million-plus cities has been done and the its implementation is underway.

- In addition to this, preparation of Clean Air Action Plans for six cities not covered under NCAP, namely Hazaribagh, Ramgarh, Chaibasa, Dumka, Sahibganj, and Pakur is being done by focusing on emissions reduction, monitoring, public awareness, and policy interventions.
- The state of Jharkhand is implementing strict standards for emissions control, waste management, and sustainability, emphasizing environmental protection and sustainable industrial growth.
- Air pollution is a significant issue, with domestic sources contributing 18-19% of emissions and open burning accounting for 7-8%. To address this, stakeholders from various sectors should unite on a common platform, fostering a holistic understanding of pollution sources and formulating targeted strategies for emission reduction and enhanced air quality.
- A global air quality study is using advanced satellite technology to create extensive datasets, providing broad coverage and evidence-based decision-making for environmental policies and public health initiatives.
- The United Nations and the World Bank have initiated a program for eight Indian states in the Indo-Gangetic Plain to address regional level pollution challenges.

Key Recommendations

- Air pollution is a significant issue, with domestic sources contributing 18-19% of emissions and open burning accounting for 7-8%. To address this, stakeholders from various sectors should unite on a common platform, fostering a holistic understanding of pollution sources and formulating targeted strategies for emission reduction and enhanced air quality.
- Climate change is driving a focus on fostering behavioural change and promoting clean air, aiming to protect public health and the environment.
- Achieving clean air requires partnerships among stakeholders, substantial investment in air quality improvement, and active participation from individuals, communities, industries, and governments.
- Youth participation in awareness campaigns and sustainable initiatives is crucial for combating air pollution. The UN program in Jharkhand is strengthening data governance for informed policy formulation and decision-making.
- Climate governance and adaptation efforts are addressing climate change challenges, with initiatives promoting sustainable practices.
- A comprehensive approach to air quality management involves critical evaluation, monitoring, source apportionment studies, hotspot zone identification, improved response systems, and capacity building.
- Increased funding will expand ground-based monitoring stations and integrate advanced modeling tools.

NOTABLE SPEAKERS



“The State government has prioritized the reduction of air pollution at the forefront of the climate agenda. Government agencies have embarked on commendable initiatives to combat air pollution, and the vital participation of citizens and civil society organizations is imperative to formulate localized, grassroots solutions. To achieve this, we must unite with a mission-driven approach, aligning our efforts with Sustainable Development Goals while ensuring the convergence of actions needed to ensure cleaner air and blue skies in the state.”

Shri Arun Kumar Singh (IAS)

Development Commissioner and Additional Chief Secretary-Department of Health, Family Welfare, and Medical Education, Jharkhand



"We need to strengthen climate governance in the state to meet the goals of the Nationally Determined Contributions. Implementing best practices to combat climate impacts is our shared responsibility, hence everyone's effort counts. We are actively implementing the state climate action plan, developing visionary roadmaps for climate resilience, and strengthening a bottom-up approach of planning and implementation to ensure a sustainable environment.”

Dr. Sanjay Srivastava (IFS)

Principal Chief Conservator of Forest and Head of Forest Force, Department of Forest, Environment and Climate Change, Jharkhand



“Active citizen engagement plays a paramount role in galvanizing the momentum required for science-based, solution-driven measures. Informed actions grounded in scientific understanding are key to achieving sustainable air quality improvements. It is important that government agencies, communities, and various stakeholders align with shared values so that we can ensure air quality for all.”

Dr. D.K. Saxena (IFS)

APCCF cum Chairman, Air Quality Monitoring Committee, Jharkhand



“The community-driven climate actions are key for achieving environmental sustainability. It is in our hands to safeguard the environment, and together, we can create a sustainable future where clean air and a healthy planet are secured for generations to come. We should envision a future for a healthier, more sustainable tomorrow.”

Shri N.K. Singh (IFS)

APCCF-Development, Department of Forest, Environment and Climate Change, Jharkhand



“Our relentless commitment to cleaner air is evident through formulation and implementation of the Clean Air Action Plan for nine cities under the National Clean Air Program. We have taken stringent control measures to combat air pollution, prioritizing public health. Our mission extends to promoting knowledge sharing, offering health advisories, and fostering a healthier, and more informed society.”

Shri Y.K. Das (IFS)

Member Secretary,
Jharkhand State Pollution Control Board



“The science-based planning, comprehensive emission inventories, and source apportionment studies are essential tools for designing effective air quality management. Effective data governance keeps the public informed and engaged, fostering a collective commitment for cleaner air. CEED is committed to support government agencies through data-driven research and raising public awareness on key environmental issues.”

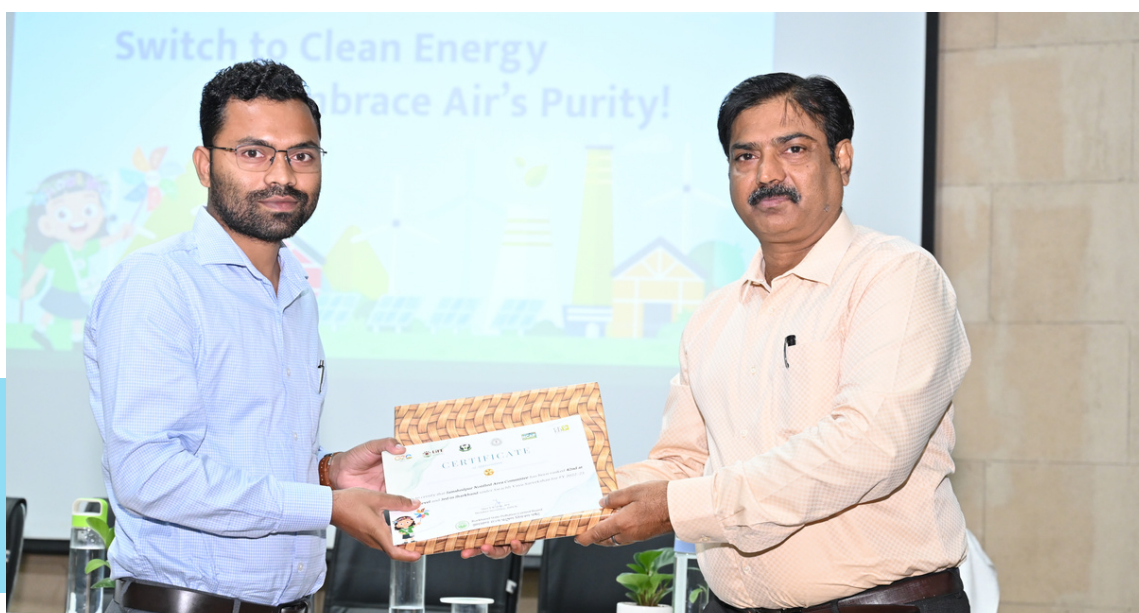
Dr. Manish Kumar

Director-Research and Development, Centre for Environment and Energy Development (CEED)

FELICITATIONS OF **ULB**



The conference also featured felicitation of commendable works undertaken by urban local bodies (ULBs), particularly **Dhanbad Municipal Corporation, Jamshedpur Notified Area Committee**, and other agencies on better air quality management.



TECHNICAL SESSION

HOLISTIC APPROACHES TO AIR QUALITY IMPROVEMENT: INNOVATIONS, CHALLENGES, AND COLLABORATIVE SOLUTIONS

Overview

The session focused on holistic approaches to air quality improvement in Jharkhand, with four experts discussing key initiatives and measures needed to ensure blue skies. The discussion was moderated by Dr. Manish Kumar, Director of the Research and Development Centre for Environment and Energy Development, and included industry and Chief Scientific Officer (CSO) led initiatives.

The key speakers included, Shri P.C. Jha, Chief Manager (Environment), Central Mine Planning and Development Institute Ltd (CMPDI), Shri Somen Mondal, Head-Environment, Bokaro Thermal Power Supply, Dr. Atri Gangopadhyay, Pulmonologist & Governor East Zone, Chest Council of India, and Dr. Brajesh Kumar, State NSS Officer, Jharkhand. The experts shared valuable insights and perspectives on ensuring blue skies efforts in Jharkhand and beyond.

Key Highlights

- India's coal production in Jharkhand is projected to peak by 2045, despite the country's 2070 net zero target. To reduce its environmental impact, India can use advanced technologies like satellite data and drones for air quality monitoring.
- The four pillars of air quality management include monitoring, modeling, mapping, and mitigation. Road transportation, particularly coal transportation, largely contributes to air pollution in mining areas.
- Thermal power plants in India are installing Limestone-Gypsum Dry Flue Gas Desulfurization (LGD) systems to reduce SO_x emissions. This technology involves injecting limestone slurry into the flue gas, which reacts with the SO_x present in the gas and converts them into gypsum. The gypsum is then collected and can be used in the construction industry, thereby reducing waste. The LGD system has proven to be an effective and efficient solution for reducing SO_x emissions from thermal power plants in India.
- Air pollution in Jharkhand is causing a rise in health issues like asthma, chemical pneumonitis, and hypersensitivity pneumonitis, leading to severe complications. Asthma is now a sporadic health concern, and COPD diagnoses are now 10-12 years earlier than in the general Indian population. Children under 5 years have seen a 30% increase in respiratory diseases.
- The National Service Scheme (NSS) in Jharkhand has 44,000 volunteers and operates in 126 schools. It follows the 6R principle to minimize single-use plastic use. NSS plans to follow initiatives like 'Meri Mati Mere Desh' and encourages youth involvement in preserving trees and planting new ones.

Key Recommendation

- Jharkhand's rapid urbanization has led to increased vehicular emissions and industrial pollutants. Implementing advanced technologies and green infrastructure requires significant financial resources and cultural changes.
- The challenges can be overcome through collaboration between government, grassroots movements, and the private sector, promoting sustainable practices and reducing carbon footprints.
- The National Emission Inventory for mining industry air pollutants needs to be established and a 2 to 5% reduction target set. Startups, MSMEs, and SSIs can lead in manufacturing windbreak panels and Vertical Greenery System structures.
- Handheld air monitors can provide immediate insights into pollution levels. Transporting coal directly to railway sidings could reduce road transportation emissions and introduce a 'green belt' in mining areas.
- Implementing Flue Gas Desulfurization systems, Selective Catalytic Reduction systems, and low NOx burners can significantly reduce SOx and NOx emissions from thermal power plants. Switching to cleaner fuels, regular equipment maintenance, and energy efficiency measures can contribute to a cleaner environment.
- The National Medical Council should reinstate respiratory medicine in the MBBS curriculum, introduce postgraduate courses in Jharkhand medical colleges, and foster collaboration between health professionals, environmental scientists, social workers, and media to raise awareness about air pollution's health impacts.
- Jharkhand's National School System (NSS) recommends establishing Eco-clubs in universities and schools, reducing plastic waste by using fabric or jute bags, and planning ahead for implementation.

NOTABLE SPEAKERS

AIR QUALITY MANAGEMENT IN JHARKHAND: NEW DIRECTIONS AND INNOVATIONS IN COAL SECTOR



"The four pillars of air quality management are monitoring, modelling, mapping, and mitigation. With robust monitoring data, we can model and map pollution hotspots, enabling targeted mitigation to enhance air quality."

Shri. P.C Jha

Chief Manager (Environment), Central Mine Planning and Development Institute Limited

CLEAN TECHNOLOGIES AND BEST PRACTICES FOR REDUCING EMISSIONS FROM THERMAL POWER PLANTS



"Air pollution is hampering socio-economic development. The Ministry of Environment and Climate Change has introduced specific environmental and technological norms to combat this issue. Electrostatic precipitator (ESP), DENOX Burner, Flue-gas desulfurization are the new technologies that have been adopted in thermal power plants, to prevent air pollution at a much faster rate."

Shri Somen Mondal

Head - Environment,
Bokaro Thermal Power Supply

HEALTH IMPLICATIONS OF POOR AIR QUALITY AND HOW THE HEALTHCARE SECTOR CAN RESPOND TO MITIGATE THE HEALTH RISKS



"In Jharkhand, air pollution is causing a significant rise in health issues, including conditions like asthma, chronic obstructive pulmonary disease (COPD), chemical pneumonitis, and hypersensitivity pneumonitis. These can lead to severe complications such as lung fibrosis, cor pulmonale, and even cancer. A compressive health impact study is urgently required to assess the causes and remedies for better public health management in the state."

Dr. Atri Gangopadhyay

Pulmonologist & Governor East Zone,
Chest Council of India

YOUTH'S ROLE IN FOSTERING PUBLIC AWARENESS AND ACTION FOR IMPROVED AIR QUALITY



“Preserving existing trees and planting new ones can help to reduce the levels of hazardous chemicals in the atmosphere, which can have a positive impact on the environment. To encourage youth contribution, plans are required to establish Eco-clubs in universities and schools in Jharkhand.”

Dr. Brajesh Kumar

State Head, NSS,
Jharkhand



“To maintain pristine skies over Jharkhand, a comprehensive approach to air quality Improvement is imperative. This entails proactive measures, including the adoption of cutting-edge technological solutions such as the deployment of sophisticated air quality monitoring systems and the integration of advanced pollution control technologies.”

Dr. Manish Kumar

Director, Research and Development, Centre for Environment and Energy Development (CEED)

CREATIVE ACTIVITIES AND PUBLIC ENAGAGEMENT



The volunteers of the National Service Scheme (Jharkhand) performed a skit to raise awareness of air pollution. The event drew the enthusiastic participation of key representatives from prominent civil society organizations, academic institutions, medical professionals, research think tanks, citizen groups, and students across the state. The act seems to have been a beautiful combination of dance and dialogue, conveying a meaningful message reflecting the negative impact of air pollution.

During the event College and University students were also felicitated for taking part in competitions and campaign-related activities.



GLIMPSE OF CAMPAIGN ACTIVITIES



During the weeklong campaign (01 -07 September), JSPCB and CEED successfully managed to run a digital awareness campaign across Ranchi, and through help of various departments, agencies and education institutions organised several outreach activities on the occasion of International Day of Clean Air for Blue Skies.



AWARENESS DRIVE IN PUBLIC SPACE



MEDIA COVERAGE

सन्मार्ग राजधानी

स्वच्छ हवा व स्वस्थ पर्यावरण से सुदृढ़ होगा झारखंड में सततशील विकास

स्वच्छ वायु एवं नीले आसमान के लिए वैज्ञानिक समन्वय, जलवायु एवं सतत विकास आयोग

राजधानी

श्री. इंटरनेशनल डे ऑफ क्लीन एयर फॉर ब्लू स्काइज (डिसेम्बर) के अवसर पर झारखंड राज्य प्रदूषण नियंत्रण (जेएसपीसीबी) और सेंटर फॉर एनवायरनमेंट एंड एनर्जी डेवलपमेंट (सीडी) द्वारा आयोजित कार्यक्रम में मुख्य अतिथि अरुण कुमार सिंह ने कहा कि स्वच्छ वायु और नीला आसमान ही सतत विकास का आधार है। उन्होंने कहा कि स्वच्छ वायु और स्वस्थ पर्यावरण ही सतत विकास का आधार है। उन्होंने कहा कि स्वच्छ वायु और स्वस्थ पर्यावरण ही सतत विकास का आधार है।



अध्यक्ष अरुण कुमार सिंह ने कहा कि स्वच्छ वायु और स्वस्थ पर्यावरण ही सतत विकास का आधार है। उन्होंने कहा कि स्वच्छ वायु और स्वस्थ पर्यावरण ही सतत विकास का आधार है। उन्होंने कहा कि स्वच्छ वायु और स्वस्थ पर्यावरण ही सतत विकास का आधार है।

सिटी

प्रभात खबर रांची, गुरुवार, 07.09.2023, 12

व्यवस्था में सुधार के लिए कड़ाई भी जरूरी : सिंह



कार्यशाला का उद्घाटन करते विकास आयुक्त

राजधानी

विकास आयुक्त अरुण कुमार सिंह ने कहा कि इस देश में व्यवस्था बिगाड़ने की जिम्मेदारी हम लोगों ने ले रखी है। प्रदूषण वाली गाड़ी चलानी हो या बिना सस्टेनिस खाता खाए, पेड काटने और नहीं लगाने में भी हम लोगों को अच्छा समझ है। दूसरे कई देशों में इसके लिए फहन का प्रावधान है। इस कारण व्यवस्था सुधारने के लिए कभी-कभी कड़ाई भी बरतना पड़ता है। ऐसा करना भी चाहिए, श्री सिंह राज्य प्रदूषण नियंत्रण पंषद (जेएसपीसीबी) और सेंटर फॉर एनवायरनमेंट एंड एनर्जी डेवलपमेंट के तत्वावधान में इंटरनेशनल डे ऑफ क्लीन एयर फॉर ब्लू स्काइज से संबंधित कार्यशाला में बोल रहे थे। इसका आयोजन पाला कम्युनिटी हॉल, खोरडा में किया गया। वन विभाग के पीसीसीएफ हॉक संजय श्रीवास्तव ने कहा कि वायु प्रदूषण के कारण हर साल करीब 65 लाख लोगों की मौत पुरे विश्व में होती है। जो भी वाइडी है, इंसान ने की : अरुण प्रधान मुख्य वन संरक्षक (विकास) एनके सिंह ने कहा कि आज पर्यावरण में जो भी गड़बड़ी दिख रही है, इंसान ने किया है। अभी भी कर रहे हैं। मौके पर मनीष कुमार, डीके सस्मिना, यादके दास ने विचार रखे।

स्वच्छ हवा व स्वस्थ पर्यावरण विकास का आधार : अरुण

रांची, संवाददाता। इंटरनेशनल-डे ऑफ क्लीन एयर फॉर ब्लू स्काइज के मौके पर झारखंड राज्य प्रदूषण नियंत्रण पंषद (जेएसपीसीबी) व सेंटर फॉर एनवायरनमेंट एंड एनर्जी डेवलपमेंट (सीडी) ने बुधवार को एक साथ राज्यस्तरीय 'टुगेदर फॉर क्लीन एयर' कार्यशाला का आयोजन किया।

वायु गुणवत्ता विषय पर वैज्ञानिक समाधान के अनुरूप सामूहिक प्रयासों को बढ़ावा देना इसका उद्देश्य था। मौके पर विकास आयुक्त अरुण कुमार सिंह ने कहा कि स्वच्छ हवा व स्वस्थ पर्यावरण सततशील विकास का आधार स्तंभ है। हमें मिशन-संचालित दृष्टिकोण के साथ अपने प्रयासों को विकास लक्ष्यों और जलवायु समाधानों के साथ सम्मिलित करना होगा, जिससे स्वच्छ हवा और नीले आसमान को हासिल करने में मदद मिलेगी।

बाॅटम-अप प्लानिंग व क्रियान्वयन की महत्वपूर्ण भूमिका; क्लाइमेट गवर्नेंस व स्टेकहोल्डर्स के बीच कंवर्जेस पर जोर देते हुए प्रधान मुख्य वन संरक्षक डॉ संजय श्रीवास्तव बोले, वन विभाग द्वारा जलवायु परिवर्तन के प्रभावों से निपटने के लिए बेस्ट प्रैक्टिसेज, सक्सेस स्टोरी का ठोस क्रियान्वयन किया जा रहा है। पर्यावरणीय चुनौतियों से निपटने के लिए समुदाय आधारित बाॅटम-अप प्लानिंग एवं क्रियान्वयन की महत्वपूर्ण भूमिका है।

- राज्यस्तरीय 'टुगेदर फॉर क्लीन एयर' पर कार्यशाला आयोजित
- विकास आयुक्त अरुण कार्यक्रम में हुए शामिल

पर्यावरण को बचाने के लिए पौधे लगाने के साथ उन्हें बचाना होगा: अरुण सिंह

इंटरनेशनल डे ऑफ क्लीन एयर फॉर ब्लू स्काइज पर कार्यशाला

राजधानी

राज्य प्रदूषण नियंत्रण पंषद (जेएसपीसीबी) और सेंटर फॉर एनवायरनमेंट एंड एनर्जी डेवलपमेंट (सीडी) के संयुक्त तत्वावधान में आयोजित कार्यशाला में बतौर मुख्य अतिथि बोल रहे थे। कार्यक्रम का विषय इंटरनेशनल डे ऑफ क्लीन एयर फॉर ब्लू स्काइज था। इस अवसर पर क्लाइमेट गवर्नेंस और स्टेकहोल्डर्स के बीच कंवर्जेस पर जोर देते हुए डॉ. संजय श्रीवास्तव (आरिफएम), प्रधान मुख्य वन संरक्षक और वन कल प्रमुख, वन, झारखंड ने कहा कि वन विभाग को और



से जलवायु परिवर्तन के प्रभावों से निपटने के लिए बेस्ट प्रैक्टिसेज, सक्सेस स्टोरी का ठोस क्रियान्वयन किया जा रहा है। कार्यक्रम के दौरान डॉ. डीके. सस्मिना (आरिफएम), एपीसीसीएफ सह अध्यक्ष, एयर क्वालिटी मॉनिटरिंग कमेटी, झारखंड ने कहा कि स्वच्छ वायु के लिए विज्ञान-आधारित, समाधान-केन्द्रित प्रयासों को लागू करने में आम नागरिकों की सहभागिता अनिवार्य है। एनके सिंह (आरिफएम), एपीसीसीएफ (डिसेम्बर) ने एक सामूहिक अभियान को भावना पर जोर दिया और कहा कि जनसामान्य एवं पर्यावरण के पारस्परिक संबंधों को प्राथमिकता देते हुए समुदायों को सशक्त करना चाहिए। वायु गुणवत्ता प्रबंधन के उपायों के बारे में वाईके दास (आरिफएम), सत्यन-सचिव, जेएसपीसीबी ने कहा कि इमारतीय स्वच्छ वायु कार्यक्रम के तहत राज्य के नौ शहरों के लिए स्वच्छ वायु कर्म योजना के निर्माण और कार्यान्वयन के लिए हम प्रोबिद्ध हैं। जेएसपीसीबी स्वच्छ वायु गुणवत्ता के लिए वैज्ञानिक अध्ययन, बेस्ट प्रैक्टिसेज का अनुपालन, डिवायस रेट्रिफाइटेशन एवं लोगों को इस मुहिम में सक्रियता से जोड़ने के लिए निरंतर प्रयासों को जारी रखेगा। पीसी ड्रा (सीएसपीडीआई), सोमन विद्याल (केएसपीसीसी) अदि ने इंस्ट्रुमेंटल फॉल्यूमन गैरकने से संबंधित फलन और तकनीकों पर बात रखी।

SPEAKER'S PROFILE



Shri Arun Kumar Singh, IAS

Development Commissioner & Additional Chief Secretary
Department of Health, GoJ

Shri Arun Kumar Singh is an eminent officer of Indian Administrative Service of the 1988 batch. He has vast experience serving in the Department of Mines, Industry Regulations and Safety, Forest, Environment and Climate Change Department, and Water Resource Department. His career in implementing several policy measures has been exemplary.

Sh. Singh is the recipient of numerous awards and accolades which include “Swachh Survekshan 2018” for achieving the best-performing state under Swachh Bharat Mission (Urban), “National Swachhata Awards 2018”, Ramachandran Award for urban decentralization in Jharkhand, AMRUT Award 2015-16 for urban reform and Krishi Karman Award 2011-12 and several others. An avid believer in sustainable development, Sh. Singh is widely celebrated for incorporating sustainable development approaches in policy planning.



Dr. Sanjay Srivastava, IFS

PCCF-HoFF
DoFECC, GoJ

Dr. Sanjay Srivastava is an officer of the Indian Forest Service of the 1989 batch and presently working as Principal Chief Conservation of Forest (PCCF) cum Executive Director of Wasteland Development Board in the Government of Jharkhand. Dr Srivastava has an illustrious career in natural resources conservation and he has made substantial contributions to the Climate Change work in the state of Jharkhand. He has presented many papers and participated in various international and national academic conferences. He is an avid believer in participatory approaches to forest protection and regeneration. An outstanding officer of the State, Dr Srivastava represented Govt. of Jharkhand in COP-24 and COP-14. His interests include analysis of institutional and policy issues and socioeconomic impacts of resource policies.



Dr. D.K. Saxena, IFS

APCCF cum Chairman Air Quality
Monitoring Committee (AQMC),
GoJ

Dr. D. K. Saxena is an officer of the Indian Forest Service of the 1992 batch. He has an illustrious career in the field of forest and biodiversity conservation and wildlife. He has been instrumental in taking farsighted steps in forest area policy and planning, climate adaptation, and mitigation measures in the state of Jharkhand. Dr. Saxena is currently the chairman of the Air Quality Monitoring Committee overseeing the overall air quality management of the state.



Nand Kishore Singh, IFS

APCCF-Development,
Jharkhand

Shri Nand Kishore Singh, an officer of the Indian Forest Service (IFS), currently serves as the Additional Principal Chief Conservator of Forest Development, in the state of Jharkhand. In this role, he holds a significant position responsible for overseeing and leading initiatives related to forest and biodiversity conservation, wildlife management, and sustainable development in Jharkhand's rich natural environment. Shri Singh's career exemplifies his dedication to environmental protection and sustainable resource management, making him a key figure in advancing the state's conservation and development efforts.



Shri Y.K. Das (IFS)

Member Secretary, Jharkhand
State Pollution Control Board

Shri Y. K. Das is an officer of the Indian Forest Service of the 1994 batch. Mr. Das has an illustrious career in the field of forest & biodiversity conservation and wildlife management of about three decades. Studied at premier institutes of India, including IIT-Delhi, he has been briefly active in academia by teaching at Delhi University. He has been instrumental in taking farsighted steps in forest area policy and planning, climate adaptation and mitigation measures in the state of Jharkhand.



Dr. Manish Kumar

Director-Research and
Development, Centre for
Environment and Energy
Development (CEED)

Dr. Manish Kumar leads the interdisciplinary research on ambient air quality, energy transition, and climate change issues in India and South Asia. He has been deeply instrumental in investigating the sources of air pollution over the Indo-Gangetic Plain (IGP) and understanding the contributions from the underlying value chain. He has more than 10 years of experience in environmental research over a wider set-up, including government, industry, and academia. Dr. Kumar has completed his post-doctoral research on air pollution in India and the potential for air quality improvement using science and sustainability applications jointly with the Stockholm Resilience Centre (SRC) and the Stockholm University, Sweden. Dr. Kumar has also served as a visiting scientist at the Max Plank Institute for Chemistry, Germany. He has published more than 30 peer-reviewed articles in various national and international journals.



Shri. P.C Jha

Chief Manager (Environment)
Central Mine Planning and
Development Institute Ltd (CMPDIL)

Shri. P.C. Jha is a seasoned environmental expert with extensive experience in air quality modeling, environmental monitoring, and clean energy promotion. As Chief Manager of Environment at CMPDI, his contributions are pivotal in enabling the development of the green hydrogen ecosystem in Jharkhand and leveraging its opportunities.



Shri Somen Mondal

Head - Environment
Bokaro Thermal Power Supply

Shri Somen Mondal is the Head of the Environment Department at Bokaro Thermal Power Supply. He oversees and manages environmental matters related to the power supply industry. In this role, he plays a crucial part in ensuring compliance with environmental regulations and implementing sustainable practices within the power generation sector. His expertise contributes to the company's efforts in maintaining a balance between power generation and environmental protection.



Dr. Atri Gangopadhyay

Pulmonologist & Governor East
Zone Chest
Council of India

Dr. Atri Gangopadhyay is a highly experienced pulmonologist and serves as the Governor of the East Zone Chest Council of India. With over 13 years of experience in the field of pulmonology, Dr. Gangopadhyay is a recognized expert in the diagnosis and treatment of respiratory diseases. His role as Governor of the East Zone Chest Council signifies his leadership and involvement in advancing respiratory healthcare and education in the eastern region of India. Dr. Gangopadhyay's expertise is invaluable in addressing a wide range of pulmonary conditions and promoting respiratory health in the community.



Dr. Brajesh Kumar

State Head, NSS,
Jharkhand

Dr. Brajesh Kumar is an esteemed professional known for his significant State NSS Officer contributions to the National Service Scheme (NSS) in India. Currently serving as the Programme Coordinator for NSS at Ranchi University, Ranchi, he also holds the pivotal position of State NSS Officer (In-Charge). Dr. Kumar's career is marked by his unwavering commitment to youth development, community engagement, and social service.



AGENDA



Together for Clean Air: Ensuring Blue Skies in Jharkhand

06 September 2023 | 11:00 AM - 02:45 PM

Palash Community Hall, Doranda, Ranchi

Draft Agenda	
10:30 AM - 11:00 AM	Registration of Delegates
Inaugural Session	
11:00 AM - 12:00 AM	Lighting of Lamp
	Welcome and Context Setting Shri Y.K Das, IFS Member Secretary Jharkhand State Pollution Control Board
	Need for cross-sectoral collaboration among various stakeholders to address air quality challenges Dr. Manish Kumar Director, Research & Development Centre for Environment and Energy Development (CEED)
	Special Guest Address Shri Satyendra Kumar Municipal Commissioner Dhanbad Municipal Corporation, GoJ
	Special Guest Address Shri Amit Kumar, IAS Director, SUDA, Jharkhand & CEO, Ranchi Smart City
	Special Guest Address Dr. D.K Saxena, IFS APCCF cum Chairman Air Quality Monitoring Committee (AQMC), GoJ

11:00 AM -12:00 AM	Special Guest Address Shri Shashikar Samanta, IFS Chairman Jharkhand State Pollution Control Board
	Special Guest Address Dr. Sanjay Srivastava, IFS PCCF - HoFF DoFECC, GoJ
	Guest of Honour Shri. L. Kiangte, IAS Additional Chief Secretary DoFECC, GoJ
	Chief Guest Shri Arun Kumar Singh, IAS Development Commissioner & Additional Chief Secretary Department of Health, GoJ
12:00 PM- 12:15 PM	Award distribution to: 1. ULBs under Swachh Vayu Survekshan 2. NSS Students
12:15 PM- 12:30 PM	Nukad Natak by NSS
12:30 PM- 12:45PM	Tea Break
Technical Session: Holistic Approaches to Air Quality Improvement: Innovations, Challenges, and Collaborative Solutions	
12:45 PM-01:45 PM	Moderator Dr. Manish Kumar Director, Research and Development Centre for Environment and Energy Development (CEED)
	Air Quality Management in Jharkhand: New Directions and Innovations in Coal Sector Shri. PC Jha Chief Manager (Environment) Central Mine Planning and Development Institute Limited (CMPDIL)
12:45 PM-01:45 PM	Clean Technologies and Best Practices for Reducing Emissions from Thermal Power Plants Shri Somen Mondal Head - Environment Bokaro Thermal Power Supply
	Health implications of poor air quality and how the healthcare sector can respond to mitigate the health risks Dr. Atri Gangopadhyay Pulmonologist & Governor East Zone Chest Council of India
	Youth Role in Fostering Public Awareness and Action for improved air quality Shri Brajesh Kumar Head, NSS, Jharkhand
01:45PM- 01:50 PM	Q & A Session
01:50 PM- 02:00 PM	Vote of thanks Shri Sanjay Srivastav Assistant Scientific Officer Jharkhand State Pollution Control Board
02:00 PM-02:45 PM	Lunch



**Jharkhand State Pollution
Control Board**

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