

## Summary

### Online National Training Programme on “Audit of Environmental issues with special focus on Transport and Energy sectors” from 18<sup>th</sup> to 22<sup>nd</sup> December, 2023

International Centre for Environment Audit & Sustainable Development (iCED) organized a 05 days’ National Training Programme on “Audit of Environmental issues with special focus on Transport and Energy sectors” from 18<sup>th</sup> to 22<sup>nd</sup> December 2023 through virtual mode. A total of 20 participants from 07 field offices including 06 group officers, participated in the training programme.



### **Inauguration of the Online National Training Programme on “Audit of Environmental issues with special focus on Transport and Energy sectors”**

Dr. Nanda Dulal Das, Director (Training and Research) extended a warm welcome to Additional Deputy Comptroller and Auditor General (ADAI) & Director General, Ms. Sayantani Jafa madam, Shri Mehul Grover, Director (Administration) and all the participants. He highlighted that the training programme would cover a wide range of topics relating to Environmental Issues in Transport and Energy Sectors. He requested ADAI Madam to deliver her welcome address.

Ms. Sayantani Jafa, Additional Deputy Comptroller and Auditor General & Director General, iCED inaugurated the training programme. She virtually welcomed all the participants and emphasized the importance of this training and its role in creating awareness and imparting knowledge about the highly critical and relevant areas in auditing of Environmental Issues, particularly in Transport and Energy Sectors.



**Ms. Sayantani Jafa, Additional Deputy Comptroller and Auditor General & Director General, iCED, Dr. Nanda Dulal Das, Director (T&R) and Shri Mehul Grover, Director (Admn.) during the inauguration**

ADAI madam informed the participants about iCED's significant role with the recent establishment of the Centre of Excellence on Audit of Blue Economy. iCED is now operationalizing the SAI India's vision of upscaling knowledge and addressing critical issues related to the audit of Blue Economy and proving to be an important instrumentality of global capacity building in the field of Environmental Auditing.

ADAI Madam emphasized India's status as a rapidly growing economy and the world's most populous country. India faces pressing environmental issues, particularly air pollution, with 35 of the world's 50 most polluted cities located in the country. She emphasized the need to reduce transport-related emissions for direct public health benefits, especially in urban areas where a large proportion of emissions occur. Road transport currently contributes to 20-30% of urban air pollution.

She emphasized India's significant commitment to environmental sustainability, as announced by Prime Minister Shri Narendra Modi at COP26 in November 2021. The ambitious goals include achieving net-zero carbon emissions by 2070 and setting new 2030 targets. She also highlighted India's updated Nationally Determined Contributions (NDC). India is committed to reducing the emissions intensity of its GDP by 45% by 2030 compared to the 2005 level. The NDC also aims to achieve approximately 50% cumulative electric power installed capacity from non-fossil fuel-based energy resources by 2030. This updated NDC serves as the guiding framework for India's transition to cleaner energy from 2021 to 2030 and represents a crucial step towards the long-term goal of reaching net-zero emissions by 2070.

ADAI Madam also stressed that as auditors, we have a critical role to play in supporting environmental preservation. By conducting audits that assess the effectiveness of environmental policies, programmes and projects, we can ensure that energy resources are utilized efficiently and environmental risks are properly managed. At the same time, we have to strive for a balanced economic development trajectory. Thus a ‘one size fits all’ approach may have to be discarded in favour of nuance in examining each issue.

She referred to Amitav Ghosh's book, "The Nutmeg's Curse," which links fossil fuels to the economic and industrial development of colonial powers in the Global North, suggesting that green finance should hold the Global North accountable.

With this introduction, ADAI Madam again welcomed all the participants virtually, expressing hope for a productive and engaging training programme.

During this five days’ training programme, 10 experts from the IA&AD and many other reputed organisations like Malviya National Institute of Technology (MNIT), Jaipur; Amity University, Jaipur; Central Pollution Control Board, New Delhi; National Power Training Institute, Ministry of Power, Govt. of India, New Delhi; Indian Society for Applied Research and Development; Indian Institute of Technology(IIT), Roorkee; The Energy and Resources Institute (TERI), New Delhi etc. were invited to deliver the sessions. Details of the trainers and the sessions delivered during this programme are as follows:

<b>Sl. No.</b>	<b>Sessions</b>	<b>Trainer/s</b>
<b>1.</b>	Environmental Issues associated with Transportation and Energy Sectors in India: An Overview	Dr Vivekanand, Assistant Professor, MNIT, Jaipur
<b>2.</b>	Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles (FAME) - Pros/Cons	Shri Pankaj Sharma, Professor, Amity University
<b>3.</b>	Overview of Framework and Implementation of Programme for Abatement and Control of Vehicular Pollution in India	Dr S K Tyagi, Retd. Additional Director, Central Pollution Control Board, New Delhi
<b>4.</b>	Renewable Energy-Best Practices	Shri S.N. Pandey, Dy. Director, National Power Training Institute, Ministry of Power, GoI, New Delhi
<b>5.</b>	Sustainable Transport Measures for Liveable Cities in India	Dr. Mahendra Sethi, Project leader, Indian Society for Applied Research and Development
<b>6.</b>	Air Quality, Clean Vehicles and Sustainable Mobility	Dr B. R. Gurjar, Professor, Indian Institute of Technology, Roorkee

7.	Energy Efficiency and Conservation	Dr Sanjay Mathur, Professor, Dept. of Civil Engineering, MNIT, Jaipur
8.	The road to net zero- An insight into Power Sector	Shri K. Ramanathan, Distinguished Fellow, TERI
9.	Overview of issues related to waste management with emphasis on Solid Waste Management	Dr Suneel Pandey, Director, Environment & Waste Management, TERI, New Delhi
10.	Air Quality Monitoring: Framework, Challenges and Audit Cases	Dr. Nanda Dulal Das, Director(T&R), iCED

**Team Wise Exercise:** Team Wise Exercise: - Team Wise Exercise was also given to the participants by dividing the participants in Three groups. **Dr. Nanda Dulal Das, Director (Training and Research), iCED** evaluated the presentations given by all the groups of the participants during pre-valedictory session.

**Feedback:-** Feedback on course designing, the time required, content, knowledge and its delivery by the resource persons was also collected from the participants through SAI Portal. The average feedback of the participants was 9.02 out of 10, which is very encouraging. Sessions on “**Air Quality Monitoring: Framework, Challenges and Audit Cases**” was rated as the best.

#### **Summing-up and valediction:**

Ms. Sayantani Jafa, ADAI & DG, iCED graced the valedictory session of the National Training Programme on “Audit of Environmental issues with special focus on Transport and Energy sectors” through virtual mode.



**Ms. Sayantani Jafa, Additional Deputy Comptroller and Auditor General & Director General, iCED, Dr. Nanda Dulal Das, Director (T&R) and Shri Mehul Grover, Director (Admn.) during Valedictory Session**

ADAI Madam invited participants to look into iCED's 45th and 46th Volumes of Green Files, which might provide important auditing goals in respective areas. She also invited participants to contribute articles for iCED's upcoming 47th volume of Green Files, highlighting auditing experiences relating to environment. Further, she invited the participants to peruse iCED's Occasional Research Paper (ORP) Series launched in May 2022 on various subjects relating to climate change, issues relating to urban flooding, transportation, air pollution, waste management, inter alia. Eleven such ORPs have been published at the website of iCED and more are in the offing.

ADAI Madam concluded the valedictory session by quoting Hon'ble PM of India when he said that "The more you know, the more you realise the magnitude of what you do not know. Our biodiversity too is a unique treasure for the entire humankind. We have to preserve it, conserve it and explore further". With this, she thanked all the experts and participants for their contributions in making this online event a success.

The training was concluded with thanks to the chair, all participants, faculties and all involved officials at iCED.