



GOVERNMENT OF INDIA  
MINISTRY OF POWER



# NATIONAL POWER TRAINING INSTITUTE

Ministry of Power, Government of India

in association with

# CENTRAL ELECTRICITY AUTHORITY

Ministry of Power, Government of India

Organises

# AshCon

One-Day National Conference on

# Sustainable Fly Ash Utilisation:

Challenges and Opportunities in Thermal Power Plants

20<sup>th</sup> March, 2026 | New Delhi

Venue: Tamarind Hall, India Habitat Centre, New Delhi - 110003

## About NPTI

**National Power Training Institute (NPTI)**, under Ministry of Power, Government of India is a National Apex body for Training and Human Resources Development in the Power Sector and the world's leading integrated Power Training Institute, with its Corporate Office at Faridabad, Haryana. NPTI operates on a Pan-India basis through its Eleven institutes in different power zones of the country and has trained more than 5 Lakh power professionals in various training programs over the last 6 decades. NPTI is the only institute of its kind covering a wide gamut of academic and training programs in the Power Sector.

## About CEA

The **Central Electricity Authority (CEA)**, with decades of expertise, is responsible for advising the government on matters related to generation, transmission, distribution and overall development of the electricity system. It plays a key role in ensuring reliable, economic and sustainable power supply through technical standards, data management and strategic planning. Headquartered in New Delhi, CEA works closely with state utilities, regulatory bodies and other stakeholders to address emerging challenges and support the nation's growing energy needs.

## Background & Rationale

Coal-based thermal power plants generate significant quantities of fly ash, posing environmental, operational, and regulatory challenges. While fly ash has immense potential for utilisation in construction, infrastructure, agriculture, and advanced industrial applications, its effective and sustainable use remains constrained by technical, policy, logistical, and market-related barriers. In the context of evolving MoEF&CC notifications, stricter environmental compliance, and India's commitment to a circular economy, there is an urgent need to bring together stakeholders from power plants, industry, academia, regulators, and policymakers to deliberate on practical solutions, best practices, and emerging opportunities in fly ash utilisation.



This one-day conference aims to serve as a focused platform for knowledge sharing, policy clarity, and industry networking.

## Objectives of the Conference

The one day conference on **Sustainable Fly Ash Utilisation: Challenges and Opportunities in Thermal Power Plants** aims to discuss current challenges in fly ash management and utilisation at thermal power plants Share best practices and successful case studies of fly ash utilisation explore industrial and commercial applications of fly ash provide clarity on policies, guidelines and statutory notifications related to fly ash promote collaboration between power plants, industries, regulators and researchers Identify opportunities for value addition and revenue generation from fly ash.

## Target Participants

- Executives and Engineers from Coal-Based Thermal Power Plants
- Environment, O&M and Ash Management Professionals
- Cement, Construction and Fly Ash Product Manufacturers
- Policy Makers and Regulatory Officials Consultants
- Researchers and Academicians
- Equipment Suppliers and Technology Providers

## Conference Structure & Technical Sessions

Following is the proposed One-Day Programme Schedule:

09:30 AM - 10:00 AM	Registration & Welcome Tea
10:00 AM - 10:30 AM	Inaugural Session Welcome Address Conference Overview & Objectives Inaugural Remarks by Chief Guest / Senior Official
10:30 AM - 11:15 AM	<b>Session I: Fly Ash Generation &amp; Management in Thermal Power Plants</b> <b>Key Topics:</b> <ul style="list-style-type: none"> <li>Fly ash generation trends and characteristics</li> <li>Challenges in handling, storage, and disposal</li> <li>Environmental and operational issues</li> <li>Lessons learned from operational power plants</li> </ul>
11:15 AM - 12:00 PM	<b>Session II: Industrial Utilisation of Fly Ash</b> <b>Key Topics:</b> <ul style="list-style-type: none"> <li>Fly ash use in: Cement and concrete</li> <li>Fly ash bricks and blocks</li> <li>Roads, embankments, and mine filling</li> <li>Quality control and standards</li> <li>Market demand and supply challenges</li> </ul>
12:00 PM - 12:15 PM	Tea / Coffee Break
12:15 PM - 13:00 PM	<b>Session III: Advanced &amp; Emerging Applications of Fly Ash</b> <b>Key Topics:</b> <ul style="list-style-type: none"> <li>Geopolymer and value-added products</li> <li>Fly ash beneficiation technologies</li> <li>High-end industrial applications</li> <li>Innovation and R&amp;D opportunities</li> </ul>
01:00 PM - 02:00 PM	Lunch Break
02:00 PM - 02:45 PM	<b>Session IV: Policy Framework, Guidelines &amp; Statutory Notifications</b> <b>Key Topics:</b> <ul style="list-style-type: none"> <li>Overview of MoEF&amp;CC Fly Ash Notifications</li> <li>Compliance requirements for thermal power plants</li> <li>Role of CPCB / SPCBs</li> <li>Incentives, penalties, and enforcement mechanisms</li> </ul>
02:45 PM - 03:30 PM	<b>Session V: Business Models &amp; Revenue Opportunities</b> <b>Key Topics:</b> <ul style="list-style-type: none"> <li>Commercial models for fly ash utilisation</li> <li>PPP and industry partnerships</li> <li>Cost-benefit analysis</li> <li>Logistics and transportation challenges</li> </ul>
03:30 PM - 03:45 PM	Tea / Coffee Break
03:45 PM - 04:30 PM	<b>Session VI: Panel Discussion – Way Forward</b> <b>Theme:</b> <ul style="list-style-type: none"> <li>Achieving 100% Fly Ash Utilisation: Practical Roadmap</li> <li>Power plant representatives</li> <li>Industry experts</li> <li>Regulators / policy experts</li> </ul>
04:30 PM - 05:00 PM	Valedictory Session

\*Followed by summary of key deliberations, recommendations and action points and distribution of participation certificates

## Expected Outcomes

- Enhanced understanding of technical and policy aspects of fly ash utilisation
- Improved compliance and operational strategies for power plants
- Identification of new utilisation pathways and partnerships
- Practical recommendations for achieving sustainable fly ash management

## Conclusion

The proposed one-day conference will provide a comprehensive and practical platform for addressing the challenges and unlocking the opportunities associated with sustainable fly ash utilisation. By engaging key stakeholders, the conference will contribute to environmental protection, regulatory compliance and economic value creation in the thermal power sector.

## Mode of Payment

All payment should be made through ECS/Online as details given below. Payments can also be made through Demand Draft drawn in favour of "National Power Training Institute" payable at Faridabad, Haryana.

**Name of the Bank:** State Bank of India

**Branch:** Sarai Khwaja, Faridabad, Haryana

**Account Holder Name:** National Power Training Institute

**Account No.:** 10724879119

**IFSC Code:** SBIN0003245

**GST No.:** 06AACAN2698A1ZR

## Participation Fee

Registration Fee: ₹5,000/- per Delegate + GST

Fee includes:

- Conference Kit and Materials
- Lunch and Refreshments
- Participation Certificate

## Venue

Venue: Tamarind Hall, Lodhi Road, India Habitat Centre, New Delhi - 110003

Click to Register: <https://forms.gle/hgC5rpLgX89bUB2W8>

Scan to Register



## Steering Committee

**Dr. S. Selvam**  
Principal Director

**Dr. Indu Maheshwari**  
Principal Director

## Organizing Committee

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## Convenor

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