



WORKSHOP ON CARING 2026

Challenges And oppoRtunities IN Gasification

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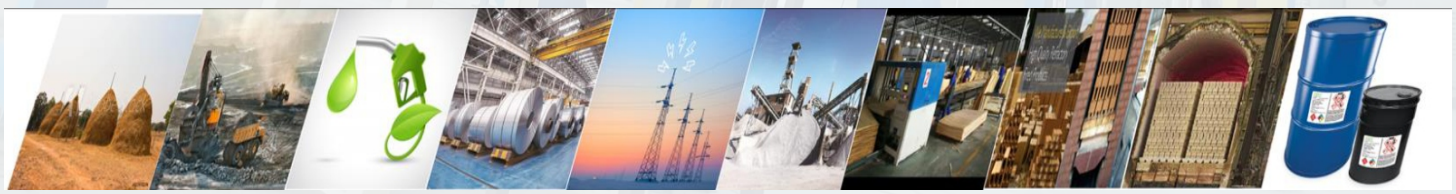
Key Areas

- ☆ Coal Gasification
- ☆ Understanding Feedstock & Gasifier Selection
- ☆ Feedstock Pre-processing
- ☆ Indigenization of Commercial Gasifier for Indian Coal Resources
- ☆ Gasifier Operational Challenges & their Remedies
- ☆ Syngas Cleaning, Conditioning and Utilization
- ☆ Carbon Capture & Utilization
- ☆ Gaps in Implementation of Gasifier in Indian context
- ☆ Techno-economic Feasibility
- ☆ Industry Experience & Case Study
- ☆ Keynote Address
- ☆ Pilot Plant Visit
- ☆ Brain storming



10-11 December 2026 at CSIR-CIMFR, DHANBAD-828108



About the workshop

CSIR-CIMFR has served the nation across the entire energy spectrum for eight decades. The institute has achieved significant milestones in the area of mining and fuel during its glorious journey. India's goal of 100 MT coal gasification by 2030, the Govt. of India has provided substantial financial impetus, including an Rs.8,500/- crore incentive scheme in 2024 and a recent Rs.37,500/- crore push in May 2026 to promote surface gasification across PSUs, private players, and demonstration projects. In this context, the Coal Gasification and Catalysis & Advanced Material Research Groups, along with HRD, CSIR-CIMFR, are organizing a Workshop on **Challenges And oppoRtunities IN Gasification CARING (2026).**

CARING 2026 will serve as an interactive national forum to brainstorm among Researchers, Engineers, and Academia. To advance India's energy security and industrial self reliance, the workshop will critically deliberate on the requirements and technical gaps in gasifying domestic high-ash coal resources. Deliberations will focus on strategic pathways to channel syngas into the nation's clean energy and chemical economy, supported by comparative economic analyses against conventional imports, and subsequently establish a road map for making Indian coal gasification commercially viable.

Agenda of the Workshop

Keynote Lectures, industry experience, R&D achievements & Brainstorming on Challenges & Opportunities in

- ☆ Understanding and mapping of Indian Energy Resources
- ☆ Identification/selection of Gasifier
- ☆ Pre-processing of Coal
- ☆ Gasification Potential Analysis of Coal
- ☆ Operational Performance and Challenges w.r.t. Indian Coal
- ☆ Technological Limitation & Failures
- ☆ Techno-economic Feasibility Analysis
- ☆ Optimization of feed through Coal Beneficiation
- ☆ Gasification Ash Utilization
- ☆ Underground Coal Gasification in India
- ☆ Syngas Cleaning, Conditioning, and Utilization Pathways.
- ☆ Syngas to Poly-generation & Comparative Techno-economic Analysis.
- ☆ Carbon Capture & Utilization.
- ☆ Safety and Environmental concerns.
- ☆ Gaps in Implementation Strategies of Gasifiers in Indian context.
- ☆ Industry concerns in the area of Gasification and Confidence building.

Plant Facility Visit:

- ❖ 1.5 TPD Oxy-blown Pressurized Fluidized Bed Gasification (PFBG) Pilot Plant.
- ❖ Indirectly Heated Pyro-cracking Gasifier Pilot Plant.
- ❖ Syngas to Methanol Pilot Plant.
- ❖ Thermo-gravimetric Reactor (TGR).
- ❖ Combustion Pilot Plant Facility.
- ❖ Coal Preparation/Washing Facilities.
- ❖ Resource Quality Assessment Facilities.
- ❖ Coal-to-Liquid (CTL) Pilot Plant.
- ❖ Carbonization Pilot Plant Facility.
- ❖ Physico-chemical Characterization Hub.

Sponsorship and Delegation Details:

Diamond Sponsor	**: ₹2,00,000 + GST @ 18% (06 Delegates)**
Platinum Sponsor	**: ₹1,50,000 + GST @ 18% (04 Delegates)**
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Delegation Fee	**: ₹20,000 + GST @ 18%**
Delegation Fee Students	**: ₹5,000 + GST @ 18%**
CSIR Delegation Fee	**: ₹10,000 + GST @ 18%**

CSIR-CIMFR account details for Payment:-

Beneficiary Name	**:**	**Central Institute of Mining & Fuel Research**
Bank Name	**:**	**State Bank of India**
A/C No.	**:**	**30256736794**
IFSC Code/NEFT Code	**:**	**SBIN0001670**
MICR Code	**:**	**826002007**

Core Organizing Team:

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Mr. Rupesh Kr. Singh, Scientist-D, Co-Convener

Patron

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