



**CSIR**  
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सत्यमेव जयते

Ministry of Steel  
Government of India



सत्यमेव जयते

नीति आयोग  
National Institution for Transforming India



International Conference on

# STEEL SLAG ROAD

A Sustainable Green Infrastructure  
Transforming Waste to Wealth

Wednesday, 10th April 2024

Venue: Hotel Lalit, Barakhamba Road, New Delhi



SUPPORTING PARTNERS



INDIA CHAPTER



**IndianSteel**  
ASSOCIATION

**CW** CONSTRUCTION  
WORLD.in

MEDIA PARTNERS

**NBM&CW**  
Infra Development & Const. Equipment Magazine



## ABOUT THE EVENT

**S**teel Slag is one of the major solid wastes generated during steel making process. For every ton of steel production around 200 to 300 kg steel slag is generated as solid waste in an integrated steel plant. Around 19 million tons of solid steel slag is generated annually in India from various integrated steel plants and this quantity is expected to reach to 60 million tons by the end 2030. CSIR-CRRI under a major research project sponsored by Ministry of Steel has developed the potential utilization of steel slag as substitute of natural aggregates in the form of Steel Slag Road to facilitate large scale utilization of steel slag in road construction. This techno-economic conversion of steel slag as processed steel slag aggregates with CSIR-CRRI technological intervention rendered the processed steel slag aggregates as superior cost effective alternative of natural aggregates for road construction. Further under CSIR-CRRI technological guidance processed steel slag aggregates developed at India's leading steel plants are successfully utilized for construction of Steel Slag Roads in various parts of the country

The conference focuses on the innovative uses of steel slag in road construction as a means of promoting sustainable development and addressing waste management challenges. Steel slag, a byproduct of steel production, has traditionally been viewed as a waste material requiring disposal. This conference serves as an ideal forum for industry leaders, policymakers, and government officials to convene, exchange ideas, share experiences, and explore the potential of steel slag as a sustainable green infrastructure solution for transforming waste into wealth.



## WHO SHOULD ATTEND

- Senior Officials from Ministries of Roads Transport and Highways, Ministry of Steel and Ministry of Environment
- Central pollution control board and state pollution control board
- Government Officials in Infrastructure Departments
- Civil Engineers & Transportation Engineers
- Road Construction Professionals
- Aggregate producer and Suppliers
- Representatives from the Steel Industry
- IoT-enabled Technology Providers
- Highway Operators
- Road Development Agencies
- Construction Firms and Contractors
- Product and Service Providers (Steel, Bitumen, etc.)
- Environmental Engineers & Technology Companies
- Construction Equipment Companies
- Waste Management and Recycling
- Consulting and Engineering Firms
- Researchers and Academics in Materials Science and Engineering
- Sustainability Experts, Environmental Services and Consulting
- Finance and Investment

# KEY BENEFITS OF STEEL SLAG ROAD TECHNOLOGY

## Technical Benefits

- Improved durability of road with better service life
- Higher load resistance capacity
- Reduced Road Thickness
- Improved skid resistance
- Economical than conventional bituminous and cement concrete roads

## Environmental Benefits

- Eco-friendly sustainable utilization of 19 million tons of steel slag waste, generated annually through various steel plants in the country which will be increased to 45 million tons by 2030.
- Saving of Natural Aggregates by utilisation of steel slag aggregates in road utilisation thereby reducing unsustainable quarrying and mining.
- Reduction of Green House Gas emissions & carbon footprint in road construction.
- Prevention of potential land, air and water pollution due to unscientific disposal of steel slag as solid waste



## KEY DISCUSSION AREAS



- Introduction to Steel Slag and its Properties
- Utilization of Steel Slag in Road Construction: Benefits and Challenges
- Case Studies of Successful Steel Slag Road Projects
- Innovative Technologies for Processing and Incorporating Steel Slag in Road Pavements
- Environmental Impacts and Sustainability of Steel Slag Roads
- Performance Evaluation and Durability of Steel Slag Pavements
- Regulatory Framework and Standards for Using Steel Slag in Road Construction
- Economic Considerations and Cost-Benefit Analysis of Steel Slag Roads
- Future Trends and Research Directions in Steel Slag Road Construction
- Collaborative Approaches for Promoting Steel Slag Roads in India



## ATTENDEE PROFILE

- Central & State Government Officials
- Senior Officials from BRO
- Road Construction Professionals
- Aggregate producer and Suppliers
- Environmental Engineers & Technology Companies
- Construction Equipment Companies
- Consulting and Engineering Firms
- Researchers and Academics
- Sustainability Experts
- Infrastructure Developers
- Policy Makers & Associations
- Industry Consultants & Academicians

## BENEFITS OF PARTICIPATION

- Deliberation and Analysis of Global and Indian Steel Industries
- Meet Industry Experts
- Networking with Decision Makers
- Stay Updated & Explore Collaborative Opportunities
- Access to Industry Insights
- Contribute to Sustainable Development
- Professional Development
- Visibility and Branding

# GLIMPSES

## GLIMPSES OF MAJOR STEEL SLAG ROAD PROJECTS ACROSS INDIA



## ABOUT CRRI

CSIR-Central Road Research Institute (CRRI), a premier national laboratory established in 1952, a constituent of Council of Scientific and Industrial Research (CSIR)(link is external) is engaged in carrying out research and development projects on design, construction and maintenance of roads and runways, traffic and transportation planning of mega and medium cities, management of roads in different terrains, improvement of marginal materials, utilization of industrial waste in road construction, landslide control, ground improvements environmental pollution, road traffic safety and analysis & design, wind, fatigue, corrosion studies, performance monitoring/evaluation, service life assessment and rehabilitation of highway & railway bridges. The institute provides technical and consultancy services to various user organizations in India and abroad. For capacity building of human resources in the area of highway Engineering to undertake and execute roads and runway projects, Institute has the competence to organize National & International Training Programmes continuing education courses since 1962 to disseminate the R&D finding to the masses.

### Dr Manoranjan Parida

Director

CSIR-Central Road Research Institute,  
Ministry of Science and Technology, Govt. of India

### Mr Satish Pandey

Principal Scientist & Project Leader  
CSIR-Central Road Research Institute  
Ministry of Science and Technology, Govt. of India

## ABOUT FICCI

Established in 1927, FICCI is the largest and oldest apex business organisation in India. Its history is closely interwoven with India's struggle for independence, its industrialization, and its emergence as one of the most rapidly growing global economies.

A non-government, not-for-profit organisation, FICCI is the voice of India's business and industry. From influencing policy to encouraging debate, engaging with policy makers and civil society, FICCI articulates the views and concerns of industry. It serves its members from the Indian private and public corporate sectors and multinational companies, drawing its strength from diverse regional chambers of commerce and industry across states, reaching out to over 2,50,000 companies.

FICCI provides a platform for networking and consensus building within and across sectors and is the first port of call for Indian industry, policy makers and the international business community.

### Ms Neerja Singh

Assistant Secretary General – Logistics, Infrastructure (Transport and Urban)  
Federation of Indian Chambers of Commerce and Industry

## SPONSORSHIP OPPORTUNITIES

**Gold Partner**      INR 6 Lakhs + 18% Tax

**Silver Partner**      INR 4 lakhs + 18% Tax

**Exhibition Opportunity also available**

## REGISTRATION FEE

Registration fee per delegate      :    INR 5000/-\*

Registration fee for students      :    INR 2500/-\*

Registration fee for International Delegate : USD 100/-

\*Plus 18% GST

## FOR ONLINE REGISTRATION

[Click here to register](#)

## FOR MORE DETAILS ; PLEASE CONTACT

### FICCI Secretariat

For Sponsorship & Registration Queries

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# International Conference on STEEL SLAG ROAD

A Sustainable Green Infrastructure Transforming Waste to Wealth

Wednesday, 10th April 2024 | Hotel Lalit, Barakhamba Road, New Delhi

## DELEGATE REGISTRATION FORM

Organization: .....

Company's GST number with address (Mandatory)

### DELEGATE DETAILS:

Name	Designation	E-mail	Mobile	Passport details			
				Passport No.	Valid till	Place of Issue	Date of Birth

### DELEGATE FEE:

FEES	AMOUNT
Registration fee per Indian delegate	INR 5000 + 18 % GST
Registration fee for International Delegate	USD 100 + Taxes

### Note:

- \* Group discount of 20% on the participation of 4 delegates from the same company
- \* 10% Discount- to all FICCI Members only
- \* Note that the delegate fee(s) is non-refundable. However, changes in the nomination can be made.

### Payment/Registration Mode

Please send filled registration form along with fees to:

For More details, please contact:

Mr Tushar Sharma & Mr Ashutosh Singh - Infrastructure  
(+91- 89501 87828 / +91- 96509 03299) Email: [infra@ficci.com](mailto:infra@ficci.com)

Please note the bank details:

Bank Name	Yes Bank Ltd.
Account Name	Federation of Indian Chambers of Commerce and Industry (FICCI)
Account No.	013694600000041
Account Type	Saving
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NEFT/RTGS/IFSC	YESB0000136
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