

Organised by



**CSIR**  
**CSIR-INDIA**



**PHD CHAMBER**  
OF COMMERCE AND INDUSTRY  
VOICE OF INDUSTRY AND TRADE

Supported by



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

**Saturday 29th June 2024**

**Venue: The Oberoi, New Delhi**



**SUPPORTING PARTNERS**



**INDIAN  
ROADS  
CONGRESS**



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 CSIR-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 & Organizing Secretary  
CSIR-Central Road Research Institute

Ministry of Science and Technology, Govt. of India

## ABOUT PHDCCI

PHD Chamber of Commerce and Industry (PHDCCI) has been working as a catalyst for the promotion of Indian industry, trade and entrepreneurship for the past 119 years. It is a forward looking, proactive and dynamic pan-India apex organization. As a partner in progress with industry and government, PHD Chamber with a special focus on MSMEs works at the grass roots level, with strong national and international linkages for propelling progress, harmony and integrated development of the Indian economy.

"PHD Chamber of Commerce and Industry(PHDCCI) is one of the Premier Chambers in India to have been accredited with "Diamond Grade" by NABET(QC), at national and international level.

PHDCCI is a National Apex Chamber having its international office at Bahrain for 6 GCC countries, with 1,50,000 companies as its members base, as total focus on the development of small and medium businesses. PHDCCI has co-opted National and International Industry Associations and Organisations through over 100 MoUs signed between the parties."

## ABOUT THE OBEROI, NEW DELHI

The Oberoi, New Delhi has an enviable location; Overlooking Delhi Golf Course on one side and Humayun's Tomb, a UNESCO World Heritage Site, on the other. In addition, it is close to Delhi's top Historical and Tourist sites like India Gate, Delhi Zoo, Sunder Nursery and Lodhi Gardens a 15th Century old Monument which is home to the tombs of Several Rulers from the Lodhi Dynasty. The hotel's restaurants are in Collaboration with Internationally renowned Chef and offer impeccable Dining experiences. A Range of World Class Services including the SPA, Business Centre and Concierge are available round the Clock. The Hotel is also equipped with State of the Art Clean Air Technology which Promises Air Quality at Par with the Highest Global Standards.

## SPONSORSHIP

### OPPORTUNITIES

<b>Platinum Sponsor</b>	INR 10 Lakhs + 18% Tax
<b>Gold Sponsor</b>	INR 6 Lakhs + 18% Tax
<b>Silver Sponsor</b>	INR 4 Lakhs + 18% Tax
<b>Bronze Sponsor</b>	INR 1.5 Lakhs + 18% Tax
<b>Exhibition Opportunity also available</b>	

## 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

### PHDCCI Secretariat

For Sponsorship & Registration Queries

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# International Conference on STEEL SLAG ROAD

A Sustainable Green Infrastructure Transforming Waste to Wealth

Saturday 29th June 2024 | The Oberoi, New Delhi

## DELEGATE REGISTRATION FORM

Organization: .....

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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
Registration fee for students	INR 2500 + 18 % GST

### Note:

- \* Group discount of 20% on the participation of 4 delegates from the same company
- \* 10% Discount- to all PHDCCI 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 Ramesh Acharya & Mr Kabir Roy - PHDCCI

(+91- 9818289382 / +91- 7011027567) Email: ramesh.acharya@phdcci.in / kabir.roy@phdcci.in

Please note the bank details:

Bank Name	Bank of India
Branch	Panchsheel
Account Name	PHD Chamber of Commerce and Industry
Account No.	602220100010035
Account Type	Current Account
Bank Address	7, Panchsheel Shopping Centre, New Delhi-110016
NEFT/RTGS/IFSC	BKID0006022
Swift Code -Bank of India	BKIDINBBNPL