



International Conference on Steel Slag Road

[Source: PIB](#)

Recently, the 1st **International Conference on Steel Slag Road** was organised by [CSIR](#) in New Delhi.

- [NITI Aayog](#) released the **guidelines for the utilisation of steel slag in road construction**.

Steel Slag Road Technology:

- It uses **steel slag (metal waste)** from steel production, to create stronger and more durable roads.
- The process involves **removing impurities and metal content** from the slag and using it as an aggregate for road construction.
- This processed steel slag has **high strength, hardness, abrasion resistance, skid resistance, and drainage capacity**, making it ideal for road building. It is **eco-friendly, cost-effective** and **durable**.
- Every year in India, approximately **1.8 billion tonnes** of natural aggregates are needed for construction and maintenance projects. This demand can be partially met by using processed steel slag aggregates as a substitute.
- India's First Steel Slag Road was built at **Surat**.

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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

Read more: [Steel Slag Road Technology, Council of Scientific & Industrial Research \(CSIR\)](#)

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