

Steel Slag

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Steel Slag Latest News

Recently, the union Minister of State (Independent Charge) for Science and Technology advocated wider adoption of steel slag-based road construction and repair technology, particularly in hilly and Himalayan regions.

About Steel Slag

- Steel slag is an **industrial byproduct** obtained from the **steel manufacturing** industry.
- It is produced in large quantities during steel-making operations that **use electric arc furnaces**.
- It can also be produced by **smelting iron ore in a basic oxygen furnace**.
- **Composition:** Primarily, slag consists of calcium, magnesium, manganese and aluminium silicates and oxides in various combinations.
- The cooling process of slag is responsible mainly for generating **different types of slags** required for various end-use consumers

Applications of Steel Slag

- **Environmental Remediation:** It has found **use as a barrier material remedy for waste sites** where heavy metals tend to leach into the surrounding environment.
 - Steel slag forces the heavy metals to drop out of solution in water run off because of its high oxide mineral content.
 - It has been used **successfully to treat acidic water discharges** from abandoned mines.
- It can replace coarse aggregate due to a higher impact and crushing strength, and better anti-skid capacity.

Source: DD news

Source: <https://vajiramandravi.com/current-affairs/steel-slag/>

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