

## GROUND GRANULATED BLAST FURNACE SLAG

Slag is a by-product from steel plants, which is obtained from blast furnaces, during the separation of iron from iron ore. The process involves cooling of the slag through high-pressure water jets, this leads to the formation of granular particles. The granulated slag is further processed by drying and then grinding in a vertical roller mill or roller press to a very fine powder, which is called GGBS.

*(Conforming to IS 16714:2018)*

### Super 6 advantages to your concrete



*Green product*



*Durability*



*Resistance to chemical attacks such as chlorides and sulphates*



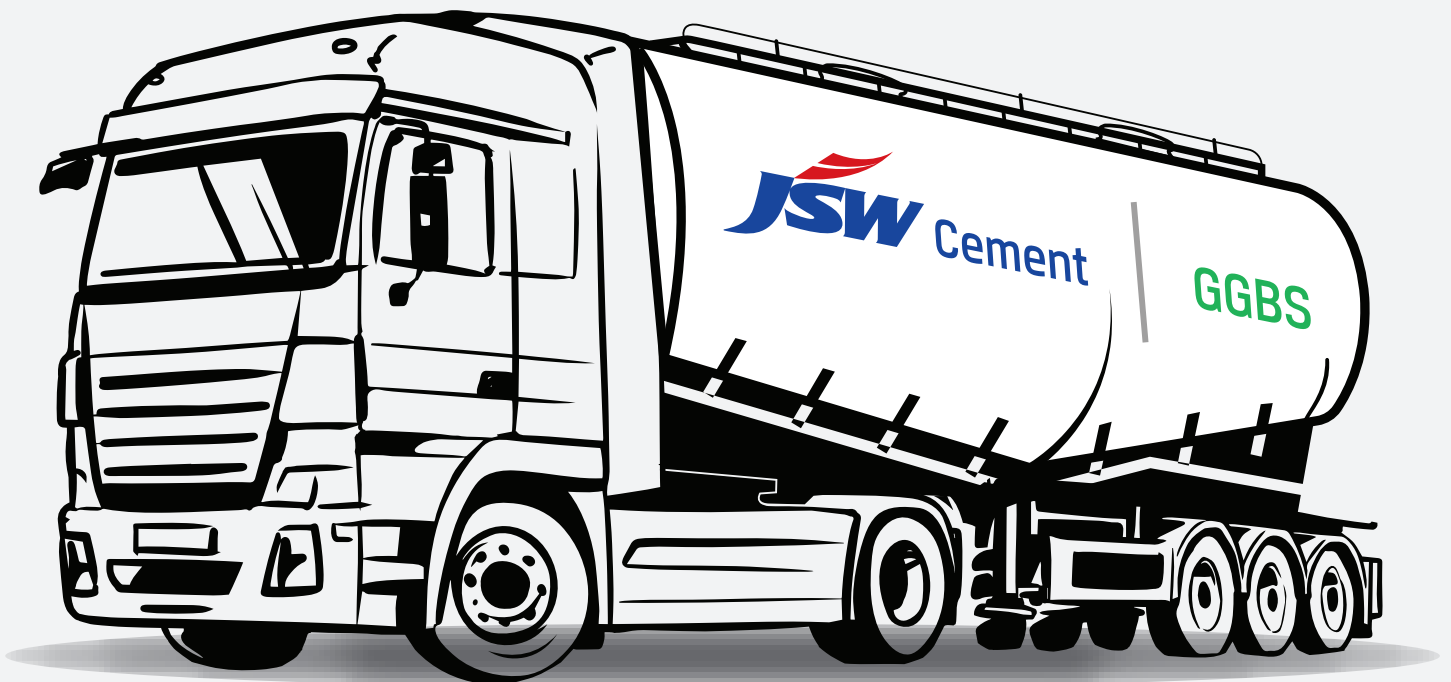
*Consistent availability & quality being a manufactured product.*



*Incomparable Ultimate Compressive and Flexural strengths*



*Less heat of hydration and reduced thermal cracks*



**A. GGBS CODEL PROVISIONS & SPECIFICATIONS IN VARIOUS GOVERNMENT, SEMI GOVT. & PRIVATE PROJECTS**

- IS 16714-2018 Ground Granulated Blast Furnace Slag for Use in Cement, Mortar & Concrete
- IS 456-2000 Plain & Reinforced Concrete
- IS 10262-2019 Concrete Mix Proportioning Guidelines
- IRC 15-2017 Code of Practice for Construction of Jointed Plain Concrete Pavements
- Ministry of Road Transport and Highway, 5th Revision
- IRC 44-2008 Guidelines for Cement Concrete Mix Design for Pavements
- IRC: SP 49-2014 Guidelines for the Use of Dry Lean Concrete as Sub Base
- IRC 112-2011 Code of Practice for Concrete Road Bridges
- IRC 78-2014 Standard Specifications and Code of Practice for Road Bridges
- IRC: SP 70-2005 Guidelines for the use of High Performance Concrete in Bridges
- IRC: SP 46-2013 Guidelines for Design & Construction of Fiber Reinforced Concrete Pavements
- IRC: SP 109-2015 Guidelines for Design & Const. of Small Diameter Piles for Road Bridges
- Indian Railway Standard - Concrete Bridge Code 2017: Code of Practice for Plain, Reinforced & Restressed Concrete for General Bridge Construction
- RDSO Ministry of Railways: Guidelines for use of High Performance Concrete in Bridges
- Municipal Corporation of Greater Mumbai Specifications
- CPWD Specifications (Volume 1) 2009
- Public Works Department (PWD Maharashtra)
- Department of Atomic Energy, Civil Works Specifications
- Atomic Energy Regulatory Board - Materials of Construction for Civil Engineering Structures important to Safety of Nuclear Facilities
- Municipal Corporation of Greater Mumbai
- Water Resources Department, KA - Approval for use of JSW GGBS
- CIDCO
- CII IGBC Green Products and Services Council Certifications
- Airport Authority of India specification for Rigid Airfield Pavements
- MHADA - Maharashtra Housing and Area Development Authority

**B. JSW GGBS APPROVALS IN VARIOUS GOVERNMENT PROJECTS**

- Ahmedabad Metro Rail Corporation Limited
- Bangalore Metro Rail Corporation Ltd
- Delhi Metro Rail Corporation Ltd
- Pune Metro Rail MAHA Metro
- Mumbai Metro Rail Corporation Line #3
- National Highway Authority of India
  - Proposed NH66 – Indapur to Zarap (Mumbai GA Highway)
  - Proposed NH17 - Panjim to Manglore
  - NH75 - Addahole to Bantawal
  - NH4B - JNPT Phase #2 to Kalamboli - Ashoka Buildcon Limited
  - NH4B - Gavan Phata Interchange - J Kumar JM Mhatre JV
  - NH65/NH50/NH52/NH52K – Latur, Nilanga
  - NH211 - Solapur to Yedshi
  - NH266 - Tasgaon to Shirdhon
  - NH75 - Hassan to Maranahally
  - NH166 & NH166E - Nagaj to Jath to Mulchandi
- Maharashtra State Road Development Corporation Limited
  - Nagpur Mumbai Samruddhi Expressway
  - Mangaon to Dighi Port
  - Tala to Agardanda
- NH548C - Satara to Mhaswad
- APTIDCO & APCRDA- Andhra Pradesh
- Bengaluru International Airport
- PWD Goa- Zuari River Bridge Project, Goa
- GSIDC Goa- Mandovi River Cable Stayed Bridge Project, Goa
- Dedicated Freight Corridor Corporation of India Ltd
- Konkan Railway Corporation Ltd
- Mumbai Costal Road (South)
- Vizhinjan International Multipurpose Seaport
- Missing Link Project for Capacity Augmentation of Mumbai Pune Expressway
- Bharat Ratna Babasaheb Ambedkar Memorial, Mumbai
- Director General of Naval Ports (Naval Dockyard)
- Shree Ram Janmabhoomi Tirth Kshetra, Ayodhya
- 3rd Vashi Creek bridge - Thane Creek Bridge (TCB3)
- Mumbai Elevated Metro Line 2B
- CIDCO Mass Housing at Navi Mumbai
- NH 361 - Four Laning of Chakur Loha Section, of Latur-Nanded Road
- NH 6 - Four Laning Work of Package 4, Section Amravati-Chikhli Section
- Surat Metro Rail Corporation