

TEST CERTIFICATE

JSW

Ground Granulated Blast Furnace Slag

Sr. No.	Characteristic	Requirement as per BS:6699	Test Result
1	Fineness (M ² /KG)	275 (Min.)	385.00
2	Residue		
	Residue by wet sieve on 45 μ (%)		3.68
3	Initial Setting Time (Min)	Not less than IST of OPC	195
4	Insoluble Residue (%)	1.5 (Max.)	0.21
5	Magnesia content (%)	14.0 (Max.)	8.16
6	Sulphide Sulphur (%)	2.00 (Max.)	0.53
7	Sulfate content (%) as SO ₃	2.50 (Max.)	0.16
8	Loss on Ignition (%)	3.00 (Max.)	0.24
9	Manganese content (%)	2.00 (Max.)	0.24
10	Chloride content (%)	0.10 (Max.)	0.001
11	Moisture content (%)	1.00 (Max.)	0.02
12	Glass content (%)	67 (Min.)	98.20
13	Compressive Strength (N/mm ²)		
	After 7 days	12.0 (Min.)	24.46
	28 days	32.5 (Min.)	UT
14	Chemical Moduli		
(A)	CaO + MgO + SiO ₂	66.66 (Min.)	79.46
(B)	CaO + MgO/SiO ₂	>1.0	1.32
(C)	CaO/SiO ₂	<1.40	1.08

**Note :There is No Indian Standard on GGBS. For reference BS specification is given.
Granulated slag used for JSW Steel Ltd.,GBS conforms to IS 12089:1987.**

** COMPRESSIVE STRENGTH , SOUNDNESS AND INITIAL SETTING TIME ON BLEND OF 70% GGBS : 30% OPC.*

Week No.:	3	Month:	1	Year:	2017
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Unit Head