

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.)	382.00
2	Residue		
	Residue by wet sieve on 45 μ (%)		4.20
3	Initial Setting Time (Min)	Not less than IST of OPC	180
4	Insoluble Residue (%)	1.5 (Max.)	0.20
5	Magnesia content (%)	14.0 (Max.)	8.14
6	Sulphide Sulphur (%)	2.00 (Max.)	0.54
7	Sulfate content (%) as SO ₃	2.50 (Max.)	0.21
8	Loss on Ignition (%)	3.00 (Max.)	0.39
9	Manganese content (%)	2.00 (Max.)	0.20
10	Chloride content (%)	0.10 (Max.)	0.001
11	Moisture content (%)	1.00 (Max.)	0.02
12	Glass content (%)	67 (Min.)	96.40
13	Compressive Strength (N/mm ²)		
	After 7 days	12.0 (Min.)	19.66
	28 days	32.5 (Min.)	37.22
14	Chemical Moduli		
(A)	CaO + MgO + SiO ₂	66.66 (Min.)	78.25
(B)	CaO + MgO/SiO ₂	>1.0	1.26
(C)	CaO/SiO ₂	<1.40	1.02

**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.:	38	Month:	9	Year:	2016
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Associate Vice President