



ISO 9001, ISO 14001, ISO 50001 & OHSAS 18001 Certified by IRQS

JSW CEMENT LTD.,
Vijayanagar works

IS-16714



CM/L-6200131683

TEST CERTIFICATE FOR GROUND GRANULATED BLAST FURNACE SLAG

SL NO	Characteristics	Reference to Requirement as Per IS 16714:2018	Test Result
CHEMICAL REQUIREMENTS			
1	Manganese Oxide (MnO) %	5.5 % (Max)	0.10
2	Magnesium Oxide (MgO) %	17.0 % (Max)	7.50
3	Sulphide Sulphur (S) %	2.0 % (Max)	0.48
4	Sulphate (as SO ₃) %	3.0 % (Max)	0.22
5	Insoluble Residue (I.R) %	3.0 % (Max)	0.31
6	Chloride Content (Cl) %	0.1 % (Max)	0.006
7	Glass Content %	85 % (Min)	92
8	Loss On Ignition (L.O.I) %	3.0 % (max)	0.16
9	Moistur Content %	1.0 % (max)	0.01
10	$\frac{\text{CaO}+\text{MgO}+1/3 \text{ Al}_2\text{O}_3}{\text{SiO}_2+2/3 \text{ Al}_2\text{O}_3}$	1.0 % (Min)	1.09
11	$\frac{\text{CaO}+\text{MgO}+ \text{Al}_2\text{O}_3}{\text{SiO}_2}$	1.0 % (Min)	1.91
PHYSICAL REQUIREMENTS			
		Reference to Requirement as Per IS 16714:2018	Test Result
1	Specific Gravity		2.91
2	Fineness, M2/Kg	320 (Min)	365
3	Slag Activity Index		
	a) 7 Days	60 % (Min)*	71.29
	b) 28 Days	75 % (Min)**	81.93

Week No -49

(03.12.2021-09.12.2021)

For the production of GGBS granulated blast furnace slag confirming to the IS 12089:1987 has been used.

Note:- *

Not Less than 60 % of control OPC 43 Grade Cement Mortar Cube

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Not Less than 75 % of control OPC 43 Grade Cement Mortar Cube

Slag Activity index (SAI) shall be determined using blend of 50 % GGBS & 50 % Control OPC 43 Conforming to IS 269.


Authorized Signatory