



IS 16415:2015



CM/L-6200134386

9001, ISO 14001, ISO 50001 & OHSAS 18001

Certified by IRQS

**JSW CEMENT LTD.,
VIJAYANAGAR WORKS****CERTIFICATE FOR COMPOSITE CEMENT**

S.No.	Characteristics	Requirement as Per IS 16415:2015	Test Result
CHEMICAL REQUIREMENTS		% Max.	
1	Insoluble Residue (%) a) Max. b) Min. Where X is the declared % of pozzolana in composite cement	$X+4(100-X)/100$ 0.6X	18.06
2	Magnesium Oxide (% MgO) Max.	8.0	3.61
3	Sulphur Trioxide (% SO ₃)	3.5	1.91
4	Sulphide Sulphur (% S)	0.75	0.18
5	Loss Of Ignition (%)	5.0	2.16
6	Chlorides (%)	0.1	0.005
7	Alkali Content (%) as Na ₂ O max.(%)	0.6	0.37
PHYSICAL REQUIREMENTS			
1	Fineness (M ² /Kg)(Min)	300	400
2	Setting Time (minutes) a) Initial(Min) b) Final(Max)	30 600	120 220
3	Soundness a) Le-chatelier (mm)(Max) b) Auto Clave (%) (Max)	10 0.8	1.00 0.006
4	Compressive Strength (MPa) a) 72 ± 1h (3 days)(Min) b) 168 ± 2h(7 days)(Min) c) 672 ± 4h (28 days)(Min)	16 22 33	23.99 35.04 56.13
5	Drying shrinkage (%) Max.	0.15	0.01

Week No. 29**15.07.2020– 21.07.2020**
Authorized signatory