

VASAVADATTA CEMENT UNIT, SEDAM

An ISO 9001 / ISO 14001 / IS 18001 Certified Company

Test Certificate

BIRLA SHAKTI CEMENT

43 GRADE ORDINARY PORTLAND CEMENT

Test & Compliance

Week No.

3

Date :
23/01/2015

PARTICULARS OF TEST CARRIED OUT

TEST RESULTS OBTAINED

REQUIREMENTS OF IS 8112 : 2013

CHEMICAL ANALYSIS

1. LIME SATURATION FACTOR CaO - 0.7 SO ₃	0.89	0.66 -- 1.02
2.8 SiO ₂ + 1.2 Al ₂ O ₃ + 0.65 Fe ₂ O ₃	1.41	
2. Ratio of % Alumina to that of Iron Oxide Al ₂ O ₃ / Fe ₂ O ₃	1.71	0.66 -- Min.
3. Insoluble Residue (% by mass)	1.18	4.0 Max.
4. Magnesia (% by mass)	1.76	6.0 Max.
5. Sulphuric Anhydride (% by mass)		3.5 Max.
6. Total Loss on Ignition (%)	1.26	5.0 Max.
7. Chloride (%)	0.02	0.10 Max.

PHYSICAL ANALYSIS

1. Fineness (m ² / Kg)	275	225 Min.
2. Setting Time (Minutes)		
a) Initial	170	30 Min.
b) Final	260	600 Max.
3. Soundness		
a) Le-Chat Expansion (mm)	1.00	10 Max.
b) Auto Clave (%)	0.13	0.8 Max.
4. Compressive Strength (M Pa)		
a) 72 ± 1 h (3 Days)	34.40	23 Min.
b) 168 ± 2 h (7 Days)	Awaited	33 Min.
c) 672 ± 4 h (28 Days)	Awaited	43 Min.
		58 Max.

THE ABOVE CEMENT COMPLIES WITH IS 8112 : 2013 FOR 43 GRADE ORDINARY PORTLAND CEMENT

HOD (Production & Quality Control)

