

VASAVADATTA CEMENT UNIT, SEDAM

An ISO 9001 / ISO 14001 / IS 18001 Certified Company

Test Certificate

BIRLA SHAKTI CEMENT

53 GRADE ORDINARY PORTLAND CEMENT

Test & Compliance

Week No. 3

Date : 30/01/2017

PARTICULARS OF TEST CARRIED OUT

TEST RESULTS OBTAINED

REQUIREMENTS OF IS 269:2015

CHEMICAL ANALYSIS

1. LIME SATURATION FACTOR CaO - 0.7 SO ₃	0.90	0.80	1.02
2.8 SiO ₂ + 1.2 Al ₂ O ₃ + 0.65 Fe ₂ O ₃			
2. Ratio of % Alumina to that of Iron Oxide Al ₂ O ₃ / Fe ₂ O ₃	1.39	0.66	Min.
3. Insoluble Residue (% by mass)	1.78	5.0	Max.
4. Magnesia (% by mass)	1.19	6.0	Max.
5. Sulphuric Anhydride (% by mass)	1.78	3.5	Max.
6. Total Loss on Ignition (%)	1.09	4.0	Max.
7. Chloride (%)	0.02	0.10	Max.

PHYSICAL ANALYSIS

1. Fineness (m ² /Kg)	292	225	Min.
2. Setting Time (Minutes)			
a) Initial	160	30	Min.
b) Final	255	600	Max.
3. Soundness			
a) Le-Chat Expansion (mm)	0.50	10	Max.
b) Auto Clave (%)	0.13	0.8	Max.
4. Compressive Strength (M Pa)			
a) 72 ± 1 h (3 Days)	37.60	27	Min.
b) 168 ± 2 h (7 Days)	47.10	37	Min.
c) 672 ± 4 h (28 Days)	Awaited	53	Min.

THE ABOVE CEMENT COMPLIES WITH IS 269:2015 FOR 53 GRADE ORDINARY PORTLAND CEMENT


HOD (Production & Quality Control)

