

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 : 30/01/2017

PARTICULARS OF TEST CARRIED OUT	TEST RESULTS OBTAINED	REQUIREMENTS OF IS 269:2015
CHEMICAL ANALYSIS		
1. LIME SATURATION FACTOR $\frac{\text{CaO} - 0.7 \text{SO}_3}{2.8 \text{SiO}_2 + 1.2 \text{Al}_2\text{O}_3 + 0.65 \text{Fe}_2\text{O}_3}$	0.89	0.66 -- 1.02
2. Ratio of % Alumina to that of Iron Oxide $\text{Al}_2\text{O}_3 / \text{Fe}_2\text{O}_3$	1.39	0.66 -- Min.
3. Insoluble Residue (% by mass)	1.67	5.0 Max.
4. Magnesia (% by mass)	1.18	6.0 Max.
5. Sulphuric Anhydride (% by mass)	1.75	3.5 Max.
6. Total Loss on Ignition (%)	1.14	5.0 Max.
7. Chloride (%)	0.02	0.10 Max.
PHYSICAL ANALYSIS		
1. Fineness (m^2 / Kg)	272	225 Min.
2. Setting Time (Minutes)		
a) Initial	160	30 Min.
b) Final	255	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)	32.37	23 Min.
b) 168 ± 2 h (7 Days)	43.50	33 Min.
c) 672 ± 4 h (28 Days)	Awaited	43 Min. 58 Max.

THE ABOVE CEMENT COMPLIES WITH IS 269:2015 FOR 43 GRADE ORDINARY PORTLAND CEMENT


HOD (Production & Quality Control)

