

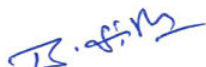
TEST CERTIFICATE



53 GRADE ORDINARY PORTLAND CEMENT

Despatched from: **24-Jun-16** To **30-Jun-16** Week No: **26**

A. PHYSICAL REQUIREMENTS	RESULTS	As per IS 12269 – 2013
Fineness:		
a. Specific Surface (m ² /kg)	308	Not less than 225
b. Normal Consistency (%)	30.00	-----
Soundness:		
a. By Le-Chatelier Method (mm)	0.50	Not more than 10 mm
b. By Autoclave (%)	0.046	Not more than 0.8 %
Setting Time:		
a. Initial Setting Time (minutes)	145	Not less than 30
b. Final Setting Time (minutes)	250	Not more than 600
Compressive Strength (MPa)		
a. 3 days	37	Not less than 27
b. 7 days	46	Not less than 37
c. 28 days	Awaited	Not less than 53
B. CHEMICAL REQUIREMENTS		
a. Lime Saturation Factor	0.93	0.80 – 1.02
b. Aluminum Modules	1.07	Not less than 0.66
c. Insoluble Residue (%)	2.28	Not more than 4.0
d. Magnesia (%)	0.68	Not more than 6.0
e. Sulphuric Anhydride (%)	2.38	Not more than 3.5
f. Loss on Ignition (%)	2.30	Not more than 4.0
g. Chlorides (%)	0.01	Not more than 0.1
h. Temperature During Testing °C	27.00	27 ± 2


Analyst (Q.C)


DGM (Q.C)