

Ref : GIL/TC/23-24

Report No : 05

TEST CERTIFICATE
Ordinary Portland Cement 43 Grade
Test and Compliance

SI.NO	PARTICULARS	TEST RESULT	REQUIREMENT AS PER IS: 269-2015
1.0	CHEMICAL REQUIREMENTS		
1.1	Lime Saturation Factor	0.91	0.66 -1.02
1.2	Alumina Modules Ratio	1.09	0.66 Min
1.3	Insoluble Residue (% by mass)	1.84	5.00 Max
1.4	Magnesia (% by mass)	2.85	6.00 Max.
1.5	Sulphuric Anhydride (% by mass)	2.32	3.50 Max.
1.6	Loss on Ignition (% by mass)	1.64	5.00 Max.
1.7	Chloride Content (% by mass)	0.18	0.1 Max.
2.0	PHYSICAL REQUIREMENTS		
2.1	Fineness (M2/Kg.)	302	225 min.
2.2	Setting time (Minutes)		
	a. - Initial	140	30 Min.
	b. -Final	230	600 Max.
2.3	Soundness		
	a. - By Le Chatelier (mm)	1.00	10 Max.
	b. - Autoclave (%)	0.050	0.8 Max.
2.4	Compressive Strength (MPa)		
	a. 72 ± 1h (3 days)	31.2	23 Min.
	b. 168 ± 2 h (7 days)	40.00	33 Min.
	c. 672 ± 4h (28 days)	51.00	43 Min , 58 Max
	Temperature during the test (°C)	28	27 ± 2

The above cement complies with the requirement of IS: 269-2015 for Ordinary Portland Cement 43 Grade Date of Dispatch 26.12.2023 .

Remarks:- Ok for all construction activities with standard application.

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HOB (QC)

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