



GUJARAT SIDHEE CEMENT LIMITED
 UNIT : SIDHEEGRAM
 At Sidheegram, Tal- Sutrapada, Dist- Gir Somnath,
 Gujarat- 362 275 INDIA.
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TEST CERTIFICATE				
53 - GRADE ORDINARY PORTLAND CEMENT				
TEST AND COMPLIANCE		Week No. : 10		Date: 08-03-2022
PARTICULARS		UNIT	TEST RESULTS	IS SPECIFICATION IS 269 : 2015 (OPC-53)
CHEMICAL REQUIREMENTS : (Clause 6.1)				
1	Ratio of Percentage of Lime to Percentage of Silica, Alumina, & Iron oxide $\frac{\text{CaO} - 0.7\text{SO}_3}{2.8 \text{ SiO}_2 + 1.2\text{Al}_2\text{O}_3 + 0.65 \text{ Fe}_2\text{O}_3}$	-	0.88	0.80 - 1.02
2	Ratio of Percentage of Alumina to that of Iron Oxide	-	1.32	0.66 Min
3	Insoluble Residue (percent by mass)	%	1.68	5.00 Max
4	Magnesia (percent by mass)	%	1.02	6.00 Max
5	Total Sulphur content calculated as Sulphuric Anhydride (SO ₃). (Percent by mass)	%	2.93	3.50 Max
6	Loss On Ignition (Percent by mass)	%	1.95	4.00 Max
7	Chloride (percent by mass)	%	0.053	0.10 Max
PHYSICAL REQUIREMENTS : (Clause 7)				
1	Fineness	m ² / Kg	354	225 Min
2	Soundness			
	a). Le.Chatelier Expansion	mm	1.0	10.00 Max
	b). Autoclave Expansion	%	0.15	00.80 Max
3	Setting Time			
	a). Initial	Minutes	130	30 Min
	b). Final	Minutes	180	600 Max
4	Compressive Strength			
	a). 72±1 hours (3 days)	MPa	35.60	27 Min
	b). 168±2 hours (7 days)	MPa	46.00	37 Min
	c). 672±4 hours (28 days)	MPa	63.90	53 Min
5	Standard Consistency	%	27.0	

The above cement complies with the requirement of IS 269 : 2015 (OPC-53) in respect of test carried out.

Central Marketing Office:

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Authorised Signatory