Laboratory	Quality Control Laboratories, Chanderia Cement Works, P.O. Cement Factory, Madhav Nagar, Chittorgarh, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are	Range of Testing / Limits of Detection
			performed	

CHEMICAL TESTING

I.	BUILDING MATERIA	ALS		
1.	Ordinary Portland	LOI	IS:4032:1985 (RA 2005)	0.1% to 8.0%
	Cement 43 Grade	IR	IS:4032:1985 (RA 2005)	0.1% to 8.0%
		SO ₃	IS:4032:1985 (RA 2005)	0.1% to 6.0%
		SiO ₂	IS:4032:1985 (RA 2005)	15.0% to 28.0%
		Al ₂ O ₃	IS:4032:1985 (RA 2005)	0.2% to 10.0%
		Fe ₂ O ₃	IS:4032:1985 (RA 2005)	0.1% to 6.0%
		CaO	IS:4032:1985 (RA 2005)	55.0% to 68.0%
		MgO	IS:4032:1985 (RA 2005)	0.1% to 10.0%
		Chloride	IS:4032:1985 (RA 2005)	0.005% to 1.0%
2.	Ordinary Portland	LOI	IS:4032:1985 (RA 2005)	0.1% to 8.0%
	Cement 53 Grade	IR	IS:4032:1985 (RA 2005)	0.1% to 8.0%
		SO₃	IS:4032:1985 (RA 2005)	0.1% to 6.0%
		SiO ₂	IS:4032:1985 (RA 2005)	15.0% to 28.0%
		Al ₂ O ₃	IS:4032:1985 (RA 2005)	0.2% to 10.0%
		Fe ₂ O ₃	IS:4032:1985 (RA 2005)	0.1% to 6.0%
		CaO	IS:4032:1985 (RA 2005)	55.0% to 68.0%
		MgO	IS:4032:1985 (RA 2005)	0.1% to 10.0%
		Chloride	IS:4032:1985 (RA 2005)	0.005% to 1.0%
3.	Portland	LOI	IS:4032:1985 (RA 2005)	0.1% to 10%
	Pozzolana	IR	IS:4032:1985 (RA 2005)	15.0% to 40.0%
	Cement	SO ₃	IS:4032:1985 (RA 2005)	0.1% to 6.0%
	(Flyash based)	MgO	IS:4032:1985 (RA 2005)	0.1% to 10.0%
		Chloride	IS:4032:1985 (RA 2005)	0.005% to 1.0%

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SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

MECHANICAL TESTING

Ι.		ALS		
1.	Ordinary Portland Cement 43 Grade	Fineness	IS: 4031 (Part 2):1999 (RA 2013)	(100 to 800) m ² /kg
		Standard Consistency	IS: 4031 (Part 4):1988 (RA. 2014)	(10 to 35)%
		Soundness by Le- chatelier expansion	IS: 4031 (Part 3) :1988 (RA 2014)	(0.5 to 30) mm
		Autoclave expansion	IS: 4031 (Part 3) :1988 (RA 2014)	(0.01 to 2.00)%
		Initial Setting Time	IS: 4031 (Part 5) :1988 (RA. 2014)	(15 to 250) minutes
		Final Setting Time	IS: 4031 (Part 5) :1988 (RA. 2014)	(30 to 600) minutes
		Compressive Strength	IS: 4031 (Part 6) :1988 (RA. 2014)	(14 to 80) MPa
2.	Ordinary Portland Cement 53 Grade	Fineness	IS: 4031 (Part 2):1999 (RA 2013)	(100 to 800) m ² /kg
		Standard Consistency	IS: 4031 (Part 4):1988 (RA. 2014)	(10 to 35)%
		Soundness by Le- chatelier expansion	IS: 4031 (Part 3):1988 (RA 2014)	(0.5 to 30) mm
		Autoclave expansion	IS: 4031 (Part 3) :1988 (RA 2014)	(0.01 to 2.00)%
		Initial Setting Time	IS: 4031 (Part 5) :1988 (RA. 2014),	(15 to 250) minutes
		Final Setting Time	IS: 4031 (Part 5) :1988 (RA. 2014)	(30 to 600) minutes
		Compressive Strength	IS: 4031 (Part 6) :1988 (RA 2014)	(14 to 80) MPa
3.	Portland Pozzolana Cement (Flyash based)	Fineness	IS: 4031 (Part 2):1999 (RA 2013)	(100 to 800) m ² /kg

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Standard Consistency	IS: 4031 (Part 4):1988 (RA 2014)	(10 to 35)%
		Soundness by Le- chatelier expansion	IS: 4031 (Part 3) :1988 (RA 2014)	(0.5 to 30) mm
		Autoclave expansion	IS: 4031 (Part 3) :1988 (RA 2014)	(0.01 to 2.00)%
		Initial Setting Time	IS: 4031 (Part 5) :1988 (RA. 2014)	(15 to 250) minutes
		Final Setting Time	IS: 4031 (Part 5) :1988 (RA. 2014)	(30 to 600) minutes
		Compressive Strength	IS: 4031 (Part 6) :1988 (RA. 2014)	(14 to 80) MPa