

Laboratory **Birla White Quality Control Laboratory, Ultra Tech Cement Ltd.
(Unit: Birla White), Rajshree Nagar, Kharia Khangar, Jodhpur,
Rajasthan**

Accreditation Standard **ISO/IEC 17025: 2017**

Certificate Number **TC-7225**

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Validity **27.05.2019 to 03.05.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method / Specification against which tests are performed	Range of Testing / Limit of Detection
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CHEMICAL TESTING

I.	BUILDING MATERIALS			
1.	White Cement	Loss on Ignition	IS 4032 EN 196-2	1.0 % to 6.0 %
		Insoluble Residue	IS 4032 EN 196-2	0.15 % to 6.00 %
		Silica as SiO ₂	IS 4032, IS 12803	18.0 % to 24.0 %
		Alumina as Al ₂ O ₃	IS 4032, IS 12803	2.0 % to 6.0 %
		Iron as Fe ₂ O ₃	IS 4032, IS 12803	0.10 % to 0.65 %
		Calcium Oxide as CaO	IS 4032, IS 12803	55.5 % to 67.5 %
		Magnesium Oxide as MgO	IS 4032, IS 12803 EN 196-2	0.40 % to 5.0 %
		Sulphur Trioxide as SO ₃	IS 4032, IS 12803 EN 196-2	0.5 % to 5.0 %
		Potassium Oxide as K ₂ O	IS 12803	0.05 % to 1.0 %
		Sodium Oxide as NaO	IS 12803	0.05 % to 1.0 %
		Chloride as Cl	IS 12803 EN 196-2	0.001 % to 0.50 %

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MECHANICAL TESTING

I.	BUILDING MATERIAL			
1.	White Cement	Consistency	IS 4031 (Part 4) EN 196-3	20 % to 50 %
		Initial Setting Time	IS 4031 (Part 5)	10 min to 300 min
		Final Setting Time	IS 4031 (Part 5)	30 min to 600 min
		Soundness by Le-chatelier	IS 4031 (Part 3)	0.50 mm to 10 mm
		Expansion (Exp. LC)	EN 196-3	0.50 mm to 20 mm
		Soundness by Autoclave	IS 4031 (Part 3)	0.01 % to 1.0 %
		Compressive Strength 2 Days 28 Days	IS 4031 (Part 6) EN 196-3	10 N/mm ² to 90 N/mm ²
		Fineness by Blaine Apparatus	IS 4031 (Part 2)	200 M ² /kg to 600 M ² /kg
		Whiteness %	IS 8042	50 % to 95 %