

Laboratory	Field Quality Assurance Laboratory, NTPC Ltd., P.O. Vikas Bhawan, Jamnipali, Distt. Korba, Chhattisgarh		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	22.09.2016
Certificate Number	T-3092	Valid Until	21.09.2018
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. BUILDINGS MATERIALS				
1.	Cement	Cement Testing Consistency	IS 4031 (Part 4): 1988 (RA 2013)	20 % to 50 %
		Setting Time (Initial, Final)	IS 4031 (Part 5): 1988 (RA 2013)	10 min to 300 min 30 min to 800 min
		Compressive Strength	IS 4031 (Part 6): 1988 (RA 2013)	12 N/mm ² to 30 N/mm ² 18 N/mm ² to 40 N/mm ²
		Fly Ash Bricks Compressive Strength Water Absorption	IS 3495 (Part 1): 1992 (RA 2002)	4 N/mm ² to 22 N/mm ²
		Concrete Compressive Strength	IS 456: 2000 (RA 2007)	10 N/mm ² to 50 N/mm ²
II. MECHANICAL PROPERTIES OF METALS				
1.	TMT Bar - HSDS	Tensile Strength	IS 1608: 2005	250 N/mm ² to 750 N/mm ²
		% Elongation	IS 1608: 2005	8 % to 35 %
		Yield Strength	IS 1608: 2005	250 N/mm ² to 750 N/mm ²
		Bend Test	IS 1599: 1985 (RA 2006)	Qualitative Mandrel Size R-12.5, R-16, R-22, R-25, R-50 mm

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