Laboratory	Strength of Materials Laboratory, VIT (Vellore Institute of Technology),
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Accreditation Standard	ISO/IEC 17025: 2005	
Certificate Number	TC-8015	Page 1 of 1
Validity	23.10.2018 to 22.10.2020	Last Amended on

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

MECHANICAL TESTING

Ι.	BUILDING MATERIALS			
1.	Hardened Concrete-Cube	Compressive Strength	IS 516:1959 (RA 2013)	10 N/mm ² to 80 N/mm ²
2.	Bricks (Burnt Clay/Fly Ash)	Compressive Strength	IS 3495 (Part 1):1992 (RA 2016)	1 N/mm ² to 40 N/mm ²
3.	Concrete Blocks (Solid/Hollow)	Compressive Strength	IS:2185 (Part 1) 2005 (RA 2015), Annex D	1 N/mm ² to 25 N/mm ²
II.	MECHANICAL PRO	PERTIES OF METALS		
1.	High Strength Deformed Steel	Tensile Strength	IS 1608 (Part 1):2018	100 N/mm ² to 2000 N/mm ²
	Bars	Yield Stress	IS 1608 (Part 1):2018	100 N/mm ² to 1800 N/mm ²
		Elongation	IS 1608 (Part 1):2018	2 % to 80 %
2.	Mild Steel Rod, Aluminium, Copper	Double Shear	IS 5242:1979 (RA 2006)	50 N/mm ² to 400 N/mm ²
3.	Springs Made from CircularSection	Compression Test	IS 7906 (Part 2):1975 (RA 2014)	5 N to 50 kN
	Wire and Bar	Tensile Test	IS 7907 (Part 2):1976 (RA 2014)	5 N to 50 kN
4.	Ferrous & non	Rockwell Hardness	IS 1586 (Part 1):2018	30 HRBW to 100 HRBW
	Ferrous Materials			20 HRC to 70 HRC
		Brinell Hardness	IS 1500 (Part 1):2013	100 HBVV to 550 HBVV
				100 HBW/ to 550 HBW/
				5/750kgf
				100 HBW to 550 HBW
				2.5/187.5kgf