



**National Accreditation Board for  
Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



## **CERTIFICATE OF ACCREDITATION**

### **STRENGTH OF MATERIALS LABORATORY, VIT (VELLORE INSTITUTE OF TECHNOLOGY)**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2005**

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

G10-A, GDN Block, VIT (Vellore Institute of Technology),  
Vellore Campus, Thiruvallam Road, Vellore, Tamil Nadu

in the field of

**TESTING**

**Certificate Number** TC-8015

**Issue Date** 23/10/2018

**Valid Until** 22/10/2020

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Signed for and on behalf of NABL



89076970100030002195

*Anil Relia*

Anil Relia  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

**Laboratory** Strength of Materials Laboratory, VIT (Vellore Institute of Technology), G10-A, GDN Block, VIT (Vellore Institute of Technology), Vellore Campus, Thiruvallam Road, Vellore, Tamil Nadu

**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 --

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

### MECHANICAL TESTING

I. BUILDING MATERIALS				
1.	Hardened Concrete-Cube	Compressive Strength	IS 516:1959 (RA 2013)	10 N/mm <sup>2</sup> to 80 N/mm <sup>2</sup>
2.	Bricks (Burnt Clay/Fly Ash)	Compressive Strength	IS 3495 (Part 1):1992 (RA 2016)	1 N/mm <sup>2</sup> to 40 N/mm <sup>2</sup>
3.	Concrete Blocks (Solid/Hollow)	Compressive Strength	IS:2185 (Part 1) 2005 (RA 2015), Annex D	1 N/mm <sup>2</sup> to 25 N/mm <sup>2</sup>
II. MECHANICAL PROPERTIES OF METALS				
1.	High Strength Deformed Steel Bars	Tensile Strength	IS 1608 (Part 1):2018	100 N/mm <sup>2</sup> to 2000 N/mm <sup>2</sup>
		Yield Stress	IS 1608 (Part 1):2018	100 N/mm <sup>2</sup> to 1800 N/mm <sup>2</sup>
		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 <sup>2</sup> to 400 N/mm <sup>2</sup>
3.	Springs Made from Circular Section Wire and Bar	Compression Test	IS 7906 (Part 2):1975 (RA 2014)	5 N to 50 kN
		Tensile Test	IS 7907 (Part 2):1976 (RA 2014)	5 N to 50 kN
4.	Ferrous & non Ferrous Materials	Rockwell Hardness	IS 1586 (Part 1):2018	30 HRBW to 100 HRBW 20 HRC to 70 HRC
		Brinell Hardness	IS 1500 (Part 1):2013	100 HBW to 550 HBW 10/3000kgf 100 HBW to 550 HBW 5/750kgf 100 HBW to 550 HBW 2.5/187.5kgf

*Gourav Saini*

Gourav Saini  
Convenor

*Anuja Anand*

Anuja Anand  
Program Manager