



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



NABL/C1073/M

01.06. 2018

To,

Mr. S.M Shroff
Krutam Techno Solutions Pvt. Ltd.
64 B, GIDC, Makarpura, Vadodara-390010, Gujarat
Phone No: - 265- 2640767, Mob. No. 08238244222
Fax No:- 265- 2651828
Email Mail: - krutam@krutam.com

Sub: Issue of NABL Certificate

Dear Sir,

NABL is pleased to issue the Accreditation certificate for **Mechanical calibration** Certificate No.**CC-2671** with validity from **18.05.2018 to 17.05.2020**.

The accreditation is subject to continued compliance of NABL norms during the accreditation period. You are required to contact us after 10 months for Onsite surveillance audit.

Apart from above, being an accredited laboratory of NABL you must fulfill all the Terms and Conditions laid down in our document NABL-131 and agreed by you.

Sincerely,

Ashish

Ashish kakran
Assistant Director
• ashish@nabl.qcin.org

Enclosures: Accreditation Certificate for Mechanical Calibration.



**National Accreditation Board for
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CERTIFICATE OF ACCREDITATION

KRUTAM TECHNOSOLUTIONS PVT. LTD.

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

64 B, GIDC, Makarpura, Vadodara, Gujarat

in the field of

CALIBRATION

Certificate Number CC-2671

Issue Date 18/05/2018

Valid Until 17/05/2020

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)

Signed for and on behalf of NABL



89076970200020000404

Anil Relia

Anil Relia
Chief Executive Officer



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SCOPE OF ACCREDITATION

Laboratory Krutam Technosolutions Pvt. Ltd., 64 B, GIDC, Makarpura, Vadodara, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2671 **Page** 1 of 2

Validity 18.05.2018 to 17.05.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
MECHANICAL CALIBRATION				
I. UTM, TENSION CREEP AND TORSION TESTING MACHINE				
1.	Uniaxial Testing Machine (Compression)*	1 kN to 1000 kN	0.53 %	Using Force Proving Instrument of Class 1 or better as per IS 1828 (Part 1) : 2015
2.	Uniaxial Testing Machine (Tension)*	20 kN to 1000 kN	0.53 %	Using Force Proving Instrument of Class 1 or better as per ASTM E4-16
		0.5 kN to 50 kN	0.80 %	Using Force Proving Instrument of Class 1 or better as per IS 1828 (Part 1) : 2015
II. HARDNESS TESTING MACHINES				
1.	Rockwell Hardness Testing Machine*	Total Force at 588.4 N to 1471 N (60 kgf to 150 kgf)	0.61 %	Using Force Proving Instruments of Class 1/ Class A or better (Load Cells with Indicator) as per Based on IS 1586-2:2012
2.	Brinell Hardness Testing Machine*	612.9 N to 30 kN (62.5 kgf to 3000 kgf)	0.50 %	Using Force Proving Instruments of Class 1/ Class A or better (Load Cells with Indicator) as per Based on IS 1500-2:2013

Ashish

Ashish Kakran
Convenor

Avijit Das

Avijit Das
Program Director



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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
3.	Rockwell Hardness Testing Machine (Indirect Verification) *	HRA HRBW HRC	1.56 HRA 2.49 HRBW 2.05 HRC	Using Standard Hardness Block as per IS 1586-2:2012
4.	Superficial Rockwell Hardness Testing Machine (Indirect Verification) *	HR15N HR30N HR45N HR15TW HR30TW HR45TW	1.52 HR15N 1.43 HR30N 1.47 HR45N 1.85 HR15TW 1.72 HR30TW 2.41 HR45TW	Using Standard Hardness Block as per IS 1586-2:2012
5.	Brinell Hardness Testing Machine *	HBW 2.5 / 62.5 HBW 2.5 / 187.5 HRW 5/750 HBW 10/3000	9.04 % 6.27 % 2.86 % 2.08 %	Using Standard Hardness Block as per IS 1500-2:2013
6.	Vickers Hardness Testing Machine (Indirect Verification) *	HV 5 HV 10 HV 30	2.40 % 2.40 % 2.40 %	Using Standard Hardness Block as per IS 1501-2:2013

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

* Only for Site Calibration

Ashish.

Ashish Kakran
Convenor

Avijit Das

Avijit Das
Program Director