



NABL

National Accreditation Board for Testing and Calibration Laboratories

Department of Science & Technology, India

CERTIFICATE OF ACCREDITATION

SHREE RADHEY 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

S -19 & 20, RIICO Industrial Area, Bindayaka, Jaipur, Rajasthan

in the discipline of

MECHANICAL CALIBRATION

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

Certificate Number C-0625

Issue Date 19/08/2014



Valid Until 18/08/2016

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

Signed for and on behalf of NABL

Avijit Das
Program Manager

Anil Rella
Director

Prof. K. VijayRaghavan
Chairman



रा.प्र.प्र.बो.

राष्ट्रीय परीक्षण और अंशशोधन
प्रयोगशाला प्रत्यायन बोर्ड
विज्ञान एवं प्रौद्योगिकी विभाग, भारत

प्रत्यायन प्रमाण-पत्र

श्री राधे टेक्नोलॉजी

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ./आई.ई.सी. 17025:2005

“परीक्षण एवं अंशशोधन प्रयोगशालाओं की सक्षमता की सामान्य अपेक्षाएँ”

जयपुर, राजस्थान

में स्थित इसकी सुविधाओं के लिए

यांत्रिक अंशशोधन

के विषय क्षेत्र में किया गया।

(इस प्रयोगशाला के प्रत्यायन के विषय क्षेत्र की जानकारी एन ए बी एल वेबसाइट www.nabl-india.org से भी प्राप्त कर सकते हैं)

प्रमाण-पत्र संख्या अ-0625

जारी करने की तिथि 19/08/2014



वैधता की तिथि 18/08/2016

यह प्रमाण-पत्र उपर्युक्त मानक तथा राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड की अतिरिक्त अपेक्षाओं का निरंतर संतोषप्रद अनुपालन किए जाने पर अनुबंध में निर्दिष्टानुसार प्रत्यायन के क्षेत्र के लिए वैध रहेगा।

रा.प्र.प्र.बो. की ओर से हस्ताक्षरित

अभिजित दास
अभिजित दास
कार्यक्रम प्रबन्धक

अनिल रेलिया
अनिल रेलिया
निदेशक

डॉ. के. विजयराघवन
डॉ. के. विजयराघवन
अध्यक्ष



राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड

NATIONAL ACCREDITATION BOARD FOR TESTING & CALIBRATION LABORATORIES

सचिवालय : प्लॉट नं. - 45, सेक्टर नं. - 44, गुडगांव - 122 002, हरियाणा, भारत
Secretariat : Plot No. - 45, Sector No. - 44, Gurgaon - 122 002, Haryana, India
दूरभाष / Telephone : +91-124-4679700 (30 Lines), फ़ैक्स / Fax : +91-124-4679799, वेबसाईट / Website: www.nabl-india.org

NABL /C/0492/AC/2014

December 29, 2014

Mr. Abhay Kumar, Proprietor
Shree Radhey Technology,
E-47, Shri Ram Vihar Colony,
Vaishali Marg, Meenawala,
Jaipur-302012; Telefax: 0141-2470107/ 09414932080
Email; abhay_jangid@yahoo.co.in

Sub: Issue of Accreditation Certificates

Dear Mr. Kumar,

NABL is pleased to issue you the accreditation certificates no. C-0625, C-0741 and C-0742 dated 19.08.2014 for Mechanical, Electro-Technical and Thermal Calibration Discipline. The validity of the certificate is till 18.08.2016 as per ISO/IEC 17025:2005. Kindly acknowledge the receipt of the same.

You have to follow NABL-133 for using NABL Symbol. You must fulfill all the terms and conditions as mentioned in NABL 131.

Thanking you and assuring of our best attention for all the time.

Yours Sincerely,

(Shally Sharma)
Accreditation Officer
shally@nabl-india.org

Enclosures:

Certificate No. C-0625 – Mechanical Calibration and Annexure (07 Pages)
Certificate No. C-0741 – Electro-Technical Calibration and Annexure (04 Pages)
Certificate No. C-0742 – Thermal Calibration and Annexure (03 Pages)




NABL

SCOPE OF ACCREDITATION

Laboratory	Shree Radhey Technology, S - 19 & 20, RIICO Industrial Area, Bindayaka, Jaipur, Rajasthan		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	19.08.2014
Certificate Number	C-0625	Valid Until	18.08.2016
Last Amended on	20.10.2014	Page	1 of 7

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks	
I. DIMENSION				
1. VERNIER CALIPER^S				
L.C. : 0.01mm ^Φ	0 to 150 mm	10.6 μ m	Using by Slip Gauge Sets Box By Comparison Method	
L.C. : 0.01mm ^Φ	0 to 300 mm	14.1 μ m		
L.C. : 0.02mm ^Φ	0 to 600 mm	42.4 μ m		
2. MICROMETER^S				
L.C. : 0.001mm ^Φ	0 to 25 mm	3 μ m	Using by Slip Gauge Sets Box & Optical Flat By Comparison Method	
L.C. : 0.01mm ^Φ	25mm to 50mm	10 μ m		
	50mm to 75mm	10 μ m		
	75mm to 100mm	10 μ m		
	100mm to 125mm	10 μ m		
	125mm to 150mm	10 μ m		
	150mm to 175mm	14 μ m		
	175mm to 200mm	14 μ m		
3. DIAL /DIGITAL GAUGE/ LVDT^S				
L.C. : 0.001mm	0 to 1mm	1 μ m	Using Slip Gauge Set Box Dial Comparator Stand By Comparison Method	
	0 to 10 mm	5 μ m		
	0 to 25 mm	5 μ m		
L.C. : 0.01mm	0 to 25 mm	5 μ m		
	0 to 50 mm	5 μ m		
	0 to 100 mm	12.3 μ m		
4. HEIGHT GAUGE^S				
L.C.: 0.01 mm	0 to 500 mm	20 μ m		Using Slip Gauge Set Box By Comparison Method


Avijit Das
Program Manager


Shally Sharma
Convenor




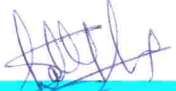
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
5. FEELER GAUGE ^S	Up to 1 mm	4 μ m	Using Digital Micrometer
6. DEPTH GAUGE ^S L.C. : 0.01 mm L.C. : 0.02 mm	0 to 300 mm 0 to 300 mm	11.3 μ m 11.3 μ m	Using Slip Gauge Set Box By Comparison Method
7. MEASURING TAPE/ PI-TAP ^S L.C. : 1mm	0 to 5000 mm	116 \sqrt{L} μ m L in mm	Using Digital Profile Projector
8. STEEL SCALE ^S L.C. : 0.5mm/1mm 150-	0 to 1000 mm	58 \sqrt{L} μ m L in mm	Using Digital Profile Projector
9. BEVEL PROTECTOR / COMBINATION SET ^S	0 to 180°	3.3 min	Using Angle Gauge Block
10. LENGTH BAR ^S	Up to 500 mm	11 μ m	Using Digital Dial gauge , Slip Gauge Set Box & Comparator Stand, By Comparison Method
11. TEST SIEVE ^S	32 μ m to 500 μ m 500 μ m to 1000 μ m 1 μ m to 50mm 50mm to 125mm	3.3 μ m 4 μ m 4 μ m 23 μ m	Using Digital Profile Projector & Digital Vernier caliper
12. FLOW CUP/ FORD CUP ^S (Orifices Dia. Only)	Up to 10mm	5 μ m	Using Digital Profile Projector


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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
13. RADIUS GAUGE ^s	Up to 50 mm	7 μ m	Using Digital Profile Projector
14. PLAIN RING GAUGE ^s	Up to 20 mm	5 μ m	Using Digital Profile Projector
15. PLAIN PLUG GAUGE ^s	Up to 50 mm	6 μ m	Using Digital Profile Projector
16. THREAD GAUGE ^s (Pitch & Angle)	Pitch : Up to 10 mm Angle : Up to 90°	5 μ m 1.1 min.	Using Digital Profile Projector
17. RIGHT ANGLE/ TRY SQUARE /ANGLE PLATE ^s	90°	1.3 min (150 sec.)	Using Digital Profile Projector
18. SNAP GAUGE WITH DIAL GAUGE ^s	Up to 100 mm	4 μ m	Using Slip gauges Set Box
19. PROFILE ROJECTOR ^s			Using Slip Gauge Set Box ,Angle Gauge, Digital, Vernier Caliper By Comparison Method
Linear Scale	Up to 100 mm	5 μ m	
Angular Scale	0 to 360°	20 sec.	
Magnification	10X, 20X, 50X, 100X	1.3 %	
II. ACCELERATION AND SPEED			
1. SPEED/ RP M/ TACHOMETER ^s (Centrifugal/ Vibrating Machine) (Non Contact Type)	10 rpm to 1000 rpm > 1000 rpm to 30000 rpm	1.3 % of rdg. 0.6 % of rdg.	Using Digital Tachometer & Tachometer with Source.

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
Weights of M2 class and coarser from 200g to 20kg,	20 g	0.6 mg	Using Standard Weights (E2 & M1 Class) As per OIML R -76 (2006)
	50 g	2 mg	
	100 g	2 mg	
	200 g	1.2 mg	
	500 g	0.6 g	
	1 kg	0.6 g	
	2 kg	0.6 g	
	5 kg	1.0 g	
	10 kg	1.0 g	
	20 kg	6.81 g	
2. WEIGHING MACHINE [#]			
Readability = 0.01 mg	0 to 200 g	0.06 mg	
Readability = 0.1 mg	0 to 200 g	0.20 mg	
Readability \leq 1 mg	0 to 600 g	2 mg	
Readability = 10 mg	0 to 600 g	11 mg	
Readability \leq 100 mg	0 to 5 kg	200 mg	
Readability \leq 1 g	0 to 5 kg	2.5 g	
Readability = 1 g	0 to 50 kg	2.6 g	
Readability = 10 g	0 to 50 kg	25 g	
Readability = 10 g	0 to 100 kg	25 g	
Readability = 100 g	0 to 100 kg	250 g	

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VI. HARDNESS			
1. ROCKWELL HARDNESS TESTER*	20 HRC to 70 HRC	0.60 HRC	Using Reference Block as per IS: 1586 (Part -2): 2012 (Indirect Method)
VII. VOLUME			
1. PIPETTE ^S	1 μ l to 10 μ l >10 μ l to 100 μ l >100 μ l to 1000 μ l	0.11 μ l 0.25 μ l 9.2 μ l	Used Standard weights Precision Balances Double Distilled Water of known density. By Gravimetric Method As per ISO 4787 (2010)
2. BURETTE ^S	0.1 to 10 ml 0.1 to 50 ml 0.1 to 100 ml	0.04 ml 0.05 ml 0.10 ml	Used Standard weights Precision Balances Double Distilled Water of known density. By Gravimetric Method As per ISO 4787 (2010)
3. VOLUMETRIC FLASKS/ BEAKER ^S	1 ml to 10 ml > 10 ml to 100 ml > 100 ml to 1000 ml > 1000 ml to 5000 ml > 5000 ml to 10000 ml	0.10 ml 0.20 ml 0.50 ml 1.00 ml 4.3 ml	

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
III. PRESSURE & VACUUM			
1. PRESSURE GAUGE [#] (Dial/Digital)	0.5 kg/cm ² to 25 kg/cm ² 20 kg/cm ² to 600 kg/cm ²	0.15 kg/cm ² 4.17 kg/cm ²	Using Digital Pressure Gauge As per DKD-R6-1
IV. FORCE			
1. UNIAXIAL TESTING MACHINE* -TENSION	10 N to 100 N 100 N to 50 kN	0.61 %** 0.50 %**	Using Force Proving Instrument in tension mode as per is 1828(Part-I):2005
-COMPRESSION	200 N to 2000 kN	0.60 %**	Using Force Proving Instrument in Compression Mode as per is 1828(Part-I):2005
V. MASS			
1. WEIGHTS ^s (Conventional Mass)			Using Standard Weights and Precision Balances By Substitution Method, ABBA Weighing Cycle As per OIML R-111
Weights of F2 class and coarser	1 mg 2 mg 5 mg 10 mg 20 mg	0.015 mg 0.015 mg 0.05 mg 0.05 mg 0.05 mg	
Weights of M1 class and coarser	50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g	0.1 mg 0.2 mg 0.2 mg 0.5 mg 0.6 mg 0.6 mg 0.6 mg 0.6 mg	


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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
4. MEASURING CYLINDER ^S	1 ml to 10 ml > 10 ml to 50 ml > 50 ml to 500 ml > 500 ml to 2000 ml > 2000 ml to 5000 ml	0.08 ml 0.10 ml 0.32 ml 0.53 ml 1.00 ml	

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

^S Only in Permanent Laboratory

^{*} Only for Site Calibration

[#] The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

^Q Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.

** Relative accuracy error has not been considered for CMC estimation.

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