



NABL

National Accreditation Board for Testing and Calibration Laboratories

(An Autonomous Body under Department of Science & Technology, Govt. of India)

CERTIFICATE OF ACCREDITATION

MAN MADE TEXTILES RESEARCH ASSOCIATION (MANTRA)

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

Ring Road, Surat, Gujarat

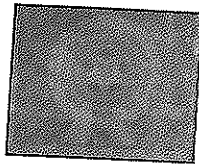
in the discipline of

CHEMICAL TESTING

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

Certificate Number T-2305

Issue Date 31/10/2016



Valid Until 30/10/2018

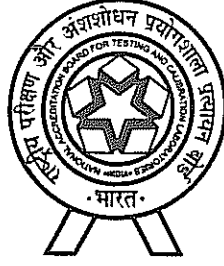
This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

N. Venkateswaran
Program Manager

Anil Relia
Director

Prof. S. K. Joshi
Chairman



रा.प्र.प्र.बो.

राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड

(विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अधीन स्वायत्तशासी निकाय)

प्रत्यायन प्रमाण-पत्र

मानव निर्मित वस्त्र अनुसंधान संघ

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”

सूरत, गुजरात

में स्थित इसकी सुविधाओं के लिए

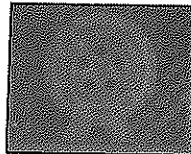
रासायनिक परीक्षण

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 प-2305

जारी करने की तिथि 31/10/2016



वैधता की तिथि 30/10/2018

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

एन. वैकटेश्वरन
एन. वैकटेश्वरन
कार्यक्रम प्रबन्धक

अनिल रेलिया
अनिल रेलिया
निदेशक

प्रो. श्रीकृष्ण जोशी
प्रो. श्रीकृष्ण जोशी
अध्यक्ष



NABL

SCOPE OF ACCREDITATION

Laboratory	Man Made Textiles Research Association (Mantra), Ring Road, Surat, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	31.10.2016
Certificate Number	T-2305	Valid Until	30.10.2018
Last Amended on	07.11.2016	Page	1 of 4

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	TEXTILE (WOVEN & NON WOVEN)			
1.	Fibres, Yarns & Fabric	Identification Of Textile Fibres (Polyester, Nylon, Acrylic, Polypropylene, Spandex, Polyethylene, Viscose Rayon, Cotton, Silk, Wool)	IS 667: 1981 (2003)	Qualitative
		Identification Of Textile Fibre (Polyester, Nylon, Acrylic, Polypropylene, Spandex, Polyethylene, Viscose Rayon, Cotton, Silk, Wool)	AATCC-20	Qualitative
		Percent Composition Of Binary Mixtures Of Polyester Fibre With Cotton Or Regenerated Cellulose (P+C And P+V)	IS 3416: 1988 (1997) (RA 2013)	2 % to 100 %
		Quantitative Analysis Of Fibre Mixture Poly/Viscose	AATCC 20A 12: 2013	2 % to 100 %
		Quantitative Analysis Of Fibre Mixture By Physical Separation	AATCC 20A 10: (2013)	2 % to 100 %
		Quantitative Analysis Of Fibre Mixture Poly/Wool	AATCC 20A 12: 2013	2 % to 100 %
		pH Value Of Aqueous Extracts Of Textile Materials (Hot And Cold Method)	IS 1390: (2004)	1 to 14
2.	Finished Fabric	Colour Fastness To Washing With Soap Or Soap & Soda	IS/ISO 105-C10: 2006 [A1] 40 °C	Qualitative (Grade 1 to Grade 5)

Malancha Das
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N. Venkateswaran
Program Manager



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	Finished Fabric	Colour Fastness To Washing With Soap Or Soap & Soda	IS/ISO 105-10: 2006 [C3] 60 °C	Qualitative (Grade 1 to Grade 5)
		Rubbing Fastness	IS 766: 1988 (2004), AATCC C8: 2007	Qualitative (Grade 1 to Grade 5)
II.	INDUSTRIAL & FINE CHEMICALS			
1.	Chemical used in Textile Industry	Oxalic Acid Percentage By Mass	IS 501: (2005)	2 % to 100 %
III.	WATER			
1.	Water	pH	IS 3025 (Part 11): 2002	1 to 14
		Total Residue (Total Solids – Dissolved And Suspended) In Water	IS 3025 (Part 15): 2003 (RA 2009)	1 mg/l to 12000 mg/l
		Filterable Residue (Total Dissolved Solids) In Water	IS 3025 (Part 16): 2006	1 mg/l to 12000 mg/l
		Non-Filterable Residue (Total Suspended Solids) In Water	IS 3025 (Part 17): 2012	0.5 mg/l to 500 mg/l
		Total Hardness In Water	IS 3025 (Part 21): 2009	5 mg/l to 5000 mg/l
		Total Chloride In Water	IS 3025 (Part 32): 2003	0.5 mg/l to 7500 mg/l
IV.	POLLUTION & ENVIRONMENT			
1.	Effluent	Dissolved Oxygen (DO)	APHA (22 nd Edition) 4500-O B: 2012 IS 3025 (Part 38): 1989, (RA 2003)	1 mg/l to 10 mg/l

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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
	Effluent	Biochemical Oxygen Demand (BOD)	APHA (22 nd Edition) 5210 B: 2012 IS 3025 (Part 44): 1993 (RA 2009)	20 mg/l to 25,000 mg/l
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006 (RA 2012)	20 mg/l to 50,000 mg/l
		Oil & Grease (Liquid –Liquid Partition Gravimetric Method)	APHA (22 nd Edition) 5520.B: 2012	1 mg/l to 100 mg/l
		Ammonical Nitrogen :- (Priliminary Distillaton Step And Titrimetric Method)	APHA (22 nd Edition) 4500 NH ₃ B & 4500 NH ₃ C: 2012	1 mg/l to 1400 mg/l
		Phenol & Phenolic Compounds (Direct Photometric Method)	APHA (22 nd Edition) 5530 D: 2012	0.01 mg/l to 100 mg/l
		Colour (Visual Comparison Method)	APHA (22 nd Edition) 2120.B: 2012	1 CU to 500 CU
		Copper	IS 3025 (Part 42): 1992 (RA 2003) and APHA (22 nd Edition) 3111 B: 2012 Direct Air-Acetylene Flame Method(AAS)	0.02 mg/l to 5 mg/l
		Nickel	IS 3025 (Part 54): 2003 and APHA (22 nd Edition) 3111 B: 2012 Direct Air-Acetylene Flame Method(AAS)	0.3 mg/l to 10 mg/l
2.	Soil & Solid Waste	pH Value	IS 2720 (Part 26): 1987 (RA 2007)	1 to 14

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	Soil & Solid Waste	Loss In Drying (At 105 °C)	APHA (22 nd Edition) 2540 B & E: 2012	0.1 % to 100 %
		Loss On Ignition (At 550 °C)	APHA (22 nd Edition) 2540 E: 2012	0.1 % to 100 %
		Ash (At 900 °C)	ASTM D 5142- 02a: 1998 (RA 2003)	0.1 % to 100 %

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