

NABL

National Accreditation Board for Testing and Calibration Laboratories

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

CERTIFICATE OF ACCREDITATION

THE SYNTHETIC AND ART SILK MILLS RESEARCH ASSOCIATION (SASMIRA)

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

Sasmira Marg, Worli, Mumbai, Maharashtra

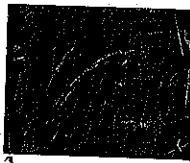
in the discipline of

MECHANICAL TESTING

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

Certificate Number T-0763

Issue Date 27/11/2015



Valid Until 26/11/2017

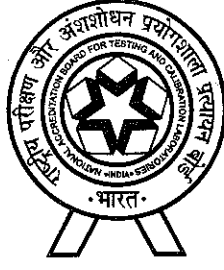
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Signed for and on behalf of NABL

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

दि सिथेंटिक एंड आर्ट सिल्क मिल्स रिसर्च एसोसिएशन (ससमीरा)

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”

मुम्बई, महाराष्ट्र

में स्थित इसकी सुविधाओं के लिए

यांत्रिक 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-0763

जारी करने की तिथि 27/11/2015

वैधता की तिथि 26/11/2017

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. वेंकटेश्वरन

एन. वेंकटेश्वरन
कार्यक्रम प्रबन्धक

अनिल रेलिया

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निदेशक

श्रीकृष्ण जोशी

प्रो. श्रीकृष्ण जोशी
अध्यक्ष



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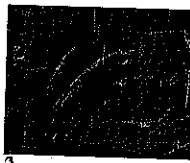
in the discipline of

CHEMICAL TESTING

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Certificate Number T-0762

Issue Date 27/11/2015



Valid Until 26/11/2017

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Signed for and on behalf of NABL

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Director

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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

दि सिथेंटिक एंड आर्ट सिल्क मिल्स रिसर्च एसोसिएशन (ससमीरा)

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

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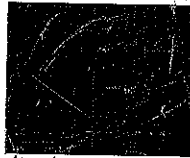
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प्रमाण-पत्र संख्या प-0762
जारी करने की तिथि 27/11/2015



वैधता की तिथि 26/11/2017

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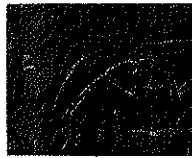
in the discipline of

BIOLOGICAL TESTING

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Certificate Number T-2123

Issue Date 27/11/2015



Valid Until 26/11/2017

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Signed for and on behalf of NABL

N. Venkateswaran
Program Manager

Anil Rella
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)

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प्रमाण-पत्र संख्या प्र-2123

जारी करने की तिथि 27/11/2015



वैधता की तिथि 26/11/2017

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अध्यक्ष



NABL

SCOPE OF ACCREDITATION

Laboratory	The Synthetic and Art Silk Mills Research Association (Sasmira), Sasmira Marg, Worli, Mumbai, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	27.11.2015
Certificate Number	T-0763	Valid Until	26.11.2017
Last Amended on	-	Page	1 of 5

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 MATERIALS				
1.	Fibers	Staple length for manmade fibres	IS 10014 (Part 1): 1984 (RA 2004) Method A	10 mm to 300 mm.
		Staple length of Fiber	ASTM D 5103: 2012	10 mm to 300 mm
		Linear density of single fibres	ASTM D 1577: 2012 Option C	0.27 D to 9 D
		Tensile strength of single fibre	ASTM D 3822/D3822M: 14 ISO 5079: 96	1 g to 500 g
		Tensile strength of fiber	IS 235: 1989 (RA 2000)	1 g to 500 g
		Crimp frequency of staple fibre	ASTM D 3937: 2012 Option 1	Upto 5 crimps/cm.
2.	Yarn	Linear density of yarns	IS 1315: 1977 (RA 1999) IS 7703 (Part 1) (RA2002) ASTM D 1907/D1907M: 12 ISO 2060: 95	50 D to 1000 D (10 Ne to 100 Ne)
		Count of yarn removed from fabrics	IS 3442: 1980 (RA 2004) ASTM D 1059-01/ ASTM ISO 7211-5: 84	5 Ne to 150 Ne 35 D to 1000 D
		Crimp of yarn removed from fabrics	IS 3442: 1980 (RA 2004) ISO 7211-3: 84	0.5 % to 100 %
		Twist in yarn	IS 832 (Part 1 & Part 2): 1985 (RA 2011) ASTM D 1423: 08	400 TPM to 4000 TPM 10 TPI to 100 TPI

Malancha Das
Convener

N. Venkateswaran
Program Manager



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	Yarn	Twist of yarn removed from the fabric	ASTM D 1422/ D1422M: 13 ISO 7211-4: 84	400 TPM to 4000 TPM 10 TPI to 100 TPI
		Single yarn- breaking load And elongation at break	IS 1670: 1991 (RA 2002) ASTM D 2256 / D2256M: 10	1 N to 100 N 1 % to 100 %
		Breaking strength of filament yarn (single yarn)	IS 7703 (Part 2): 1990 (RA 2002)	1 N to 100 N
		Lea strength of yarns spun on cotton system (CSP)	IS 1671: 1977 (RA 2004)	200 N to 1800 N (45 lbf to 400 lbf)
3.	Fabrics	Breaking load and elongation of woven textile fabrics	IS 1969 (Part 1): 1985 (RA 2009) ASTM D 5035-11 ISO 13934-1: 2013	0.1 KN to 50 KN 5 % to 100 %
		Puncture resistance Index CBR	ASTM D 4833: 07 ASTM D 6241: 09 ISO 12236: 06	10 N to 10 kN
		Pilling resistance of fabrics	IS 10971 (Part 1): 1984 (RA 2011)	Qualitative (Grade 1 to 5)
		Length and width of woven fabrics	IS 1954: 1990 (RA 2002) ASTM D 3774: 2012 ISO 22198: 06 ASTM D 1907/D1907M: 12 ISO 2060: 95	1 cm to 200 cm
		Thickness of woven and knitted fabrics	IS 7702: 1975 (RA 2012) ASTM D1777 (RA 2011)	0.1 mm to 4 mm.

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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
	Fabrics	Mass per unit length and mass per unit area in woven fabrics	IS 1964: 2006 Method A ASTM D 3776 D3776M: 2013 Option C ISO 7211-6: 84 Method A	20 gsm to 2000 gsm
		Threads per unit length in woven fabrics	IS 1963: 1981 (RA 2004) ASTM D 3775: 12 ISO 7211-2: 84	10 /cm to 250 /cm (25 /inch to 635 /inch)
		Recovery from creasing of textile fabrics	IS 4681: 1981 (RA 2004)	20° to 160°
		Stiffness (Bending Length)	ASTM D 1388: 14 Option A	0.1 cm to 8 cm
		Grab Strength	ASTM D 5034: 2013 ISO 13934-2: 14	100 N to 2000 N
		Tear Strength – Single Rip	ASTM D 2261: 13 ISO 13937-2: 2000 ASTM D 5733: 95	100 N to 1000 N
		Failure in Sewn Seams of Woven Fabrics	ASTM D 1683: 11a	10 N to 1000 N
		Seam Slippage and Seam Strength	ISO 13936-1: 2004 ISO 13935-2: 2014	10 N to 1000 N
		Bursting Strength and Bursting Distension of Fabrics: Diaphragm Method	IS 1966 (Part 1): 1975(2009) ASTM D 3786 /3786M: 13 ISO 13938-1: 1999	5 kg/cm ² to 60 kg/cm ²
		Drape Coefficient	IS 8357: 1977 (RA 2004)	Upto 100%

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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
4.	Nonwovens	Tensile Strength(Grab Method)	ISO 9073-18: 2007	100 N to 1000 N
5.	Fabric / Coated Fabric	Width of Coated Fabric	IS 7016 (Part 1): 1982 (RA 2008)	1 cm to 200 cm
		GSM of Coated Fabric	IS 7016 (Part 1): 1982 (RA 2008)	20 gsm to 2000 gsm
		Breaking Strength and Elongation of Coated Fabric in Newtons (N) (Strip Test)	IS 7016 (Part 2): 1981 (RA 2008)	10 N to 5000 N 1 % to 100 %
		Tearing Strength(Tongue Tear) of Coated Fabric in Newtons (N)	IS 7016 (Part 3): 1981 (RA 2008) Method A1	10 N to 2500 N
		Tearing Strength(Single Rip) of Coated Fabric in Newtons (N)	IS 7016 (Part 3): 1981 (RA 2008) Method A2	10 N to 2500 N
		Resistance to flexing	IS 7016 (Part 4): 1981 (RA 2008) Method B	Qualitative (Grading Scale 0 to 3)
6.	Fabric / Wovens	Air Permeability	ASTM D 737: 12 ISO 9237: 95	50 l/dm ² /min to 1500 l/dm ² /min
7.	Fabric / Non Woven	Air Permeability	ISO 9073-15: 07	
8.	Fabric / Technical Textile	Abrasion Resistance (Martindale)	ASTM D 4966: 12 ISO 12947 (Part 1 to 4): 2002	Upto1,00,000 Cycles
		Taber Abrasion Resistance	ASTM D 3884: 13	Qualitative (Grade 1 to 5) Cycles 50 to 9999

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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
	Fabric / Technical Textile	Apparent Opening Size	ASTM D 4751: 12	75 μ to 850 μ
		Thermal Resistance	ASTM D 1518: 14	1 Tog to 12 Tog
		Breaking Strength By Wide Width Method % Elongation	ASTM D 4595: 11 ISO 10319: 08	200 N to 1500 N 10 % to 100 %
		Tensile Strength (Grab Method) Elongation	ASTM D 4632: 08	100 N to 1000 N
		GSM of Geotextile	ASTM D 5261: 10	20gsm to 2000 gsm
		Trapezoid Tear Strength	ASTM D 4533: 11	100 N to 1000 N
9.	Rope	Breaking Strength of Rope	IS 7071 (Part 4): 1986 (RA 2004) (Method A & B)	500 N to 100 kN

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SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	27.11.2015
Certificate Number	T-0762	Valid Until	26.11.2017
Last Amended on	-	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 & TEXTILE AUXILIARIES				
1.	Fibre / Yarn / Fabric	Textile Fibers identification.	IS 667: 1981 (RA 2003) AATCC 20: 2013	Qualitative
		Composition of Binary Mixture of Protein Fibre With Certain Other Non-Protein Fibres (Method Based on Clean Dry Mass)	IS 2006: 1988 (RA 2004) AATCC 20 A: 2014 ISO 1833 (Part 4): 2006	3 % to 100 %
		Composition of Binary Mixture of Regenerated Cellulose and Cotton (Method Based on Clean Dry Mass)	IS 1889 (Part 4): 1979, Sulphuric acid method (RA 2005) AATCC 20 A: 2014	3 % to 100 %
		Composition of Binary Mixture of Polyester Fibre With Cotton and Regenerated Cellulose (Method Based on Clean Dry Mass)	IS 3416 (Part 1): 2008 AATCC 20 A: 2014 ISO 1833 (Part 11): 2006	3 % to 100 %
		pH Value of Aqueous Extract of Textile Materials	IS 1390: 1983 (RA 2004) AATCC 81: 2012 ISO 3071: 2005	1 to 14
		Colorfastness of Textile Materials to Artificial Light (Xenon Lamp) Rating on Blue Wool Scale	IS 2454: 1985 (RA 2006) ISO 105 BO2: 2014 AATCC -16: 3: 2012	Blue Wool Qualitative (Rating 1 to 8) Grey scale Qualitative (Rating 1 to 5)
		Colorfastness of Textile Materials to Perspiration (Acidic & Alkaline)	IS 971: 1983 ISO 105-E04: 2013 (RA 2004) AATCC 15: 2013(acidic only)	Qualitative (Rating 1 to 5)

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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
	Fibre / Yarn / Fabric	Color Fastness of textile materials to dry-Heat (Staining on Adjacent Fabric)	IS 4636: 1988 (RA 2004)	Qualitative (Rating 1 to 5)
		Moisture Content	ASTM D 2495: 2007 (RA 2012)	0.1 % to 20%
2.	Yarn / Fabric	Colorfastness to washing	AATCC 61:2013 (1A) IS/ISO 105 C10: 2006	Qualitative (Rating 1 to 5)
		Class of Dyes identification on textiles material (cotton and other cellulosic fibers)	IS 4472 (Part 1): 1967	Qualitative test
		Class of Dyes identification on Textiles Material Wool, Silk and Other Protein Fibers	IS 4472 (Part 2): 1968	Qualitative test
		Class of Dyes identification on Textiles Material Man Made Fibers	IS 4472 (Part 3): 1973	Qualitative test
		Moisture content, Total Size Or Finish, Ash and Fatty Matters on Grey and Finished Cotton Textiles Materials	IS 199: 1989 (RA 2005)	Moisture content 0.5 % to 20 % Ash content 0.1 % to 10 %
		Color Fastness to Saliva	DIN 53160-1: 2010	Qualitative (Rating 1 to 5)
		Color Fastness to Rubbing With Organic Solvent	IS 3426: 1982 (RA 2004)	Qualitative (Rating 1 to 5)

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SCOPE OF ACCREDITATION

Laboratory	The Synthetic and Art Silk Mills Research Association (Sasmira), Sasmira Marg, Worli, Mumbai, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	27.11.2015
Certificate Number	T-0762	Valid Until	26.11.2017
Last Amended on	-	Page	3 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
3.	Fabric	Water Repellency of Fabrics By Cone Test	IS 7941: 1976 (RA 2004)	i) Amount of water penetrated /water collected in ml 1 ml to 400 ml ii) Amount of wetting of the outer surface visual observation using standard photograph as guidelines
		Water Repellency of Fabrics By Water Spray Test	IS 390: 1975 (RA 2003) AATCC 22: 2014	Qualitative (Rating 0 to 100)
		Rubbing / Crocking Fastness of Textile Materials (Dry and Wet)	IS 766: 1988 (RA 2004) ISO 105 x-12: 2001 AATCC 8: 2013	Qualitative (Rating 1 to 5)
		Colorfastness to Water	IS 767: 1988 (RA 2004) ISO 105 :E01: 2013 AATCC 107: 2013	Qualitative (Rating 1 to 5)
		Colorfastness to Sea Water	IS 690: 1988 (RA 2004) ISO 105 EO2: 2013 AATCC 106: 2013	Qualitative (Rating 1 to 5)
		Colorfastness to Organic Solvent	IS 688: 1988 (RA 2004) ISO 105-X 05: 1994	Qualitative (Rating 1 to 5)
		Dimensional Changes on Soaking in Water	IS 2977: 1989 (RA 2005)	(-)20 % to 20 %
		Flammability	ASTM D 1230: 2010	1s to 60s
		Whiteness of Textiles	AATCC 110: 2011	80 to 200

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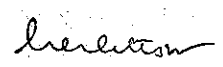
Certificate Number T-0762 Valid Until 26.11.2017

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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
	Fabric	Dimensional Changes in Washing and Drying	ISO 5077: 2007 ISO 6330: 2012 ISO 3759: 2011	(-20 % to 20 %
		Color Fastness to Dry-Cleaning	ISO 105 DOI: 2010	(Qualitative (Rating 1 to 5)
		Water Repellency of Fabric by Bundasmann Rain Shower Test.	ISO 9865: 1991 (RA 2011)	(Qualitative (Rating 1 to 5) 1 g to 150 g (For absorption)
		Soil Release : Oily Stain Release Method	AATCC 130 :2010	Qualitative (Grades 1 to 5)
		Flammability By Oxygen Index	IS 13501: 1992 (RA 2013)	6 % to 70 %
		Flammability and Flame Resistance of Textiles Fabric	IS 11871: 1986 RA 2004, Method A ASTM D 6413: 2015	After flame time 1 s to 50 s
		Flammability and Flame Resistance	IS 11871: 1986 (RA 2004) Method B	1 s to 10 s
		Burning Behavior –Ease of Ignition of Vertically Oriented Specimen	ISO 6940: 2004 IS 15589: 2005	Ignition time 1 s to 20 s
		Burning Behavior – Flame Spread Time of Vertically Oriented Specimen	ISO 6941: 2003 IS 15590: 2005	1 s to 60 s

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Accreditation Standard ISO/IEC 17025: 2005

Discipline Biological Testing Issue Date 27.11.2015

Certificate Number T-2123 Valid Until 26.11.2017

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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
I.	RESISTANCE TO MICROBIAL ATTACK			
1.	Fabric	Antibacterial Activity of Textile Materials: Parallel Streak Method	AATCC 147: 2011	Qualitative (Present/ Absent)
		Antifungal Activity, of Textile Material : (Part 3)	AATCC 30: 2013	Rating from 0 to 4
		Antibacterial Finishes on Textile Materials	AATCC 100: 2012	0 to 100 %
		Anti-Microbial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions	ASTM E 2149: 13a	0 to 100 %
		Antibacterial Activity And Efficacy on Textile Products	JIS 1902: 2008	Log value to the base 10
		Antibacterial Activity of Antibacterial Finished Products	ISO 20743: 2013	Log value to the base 10
		Textile Fabrics –Antibacterial Activity – Agar Diffusion Plate Test.	ISO 20645: (2004-12) (E)	Good effect to Insufficient effect
		Antimicrobial Activity Assessment of New Carpets	AATCC 174: 2011	0 to 100 %

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