National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

MAN MADE TEXTILES RESEARCH ASSOCIATION (MANTRA)

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

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

for its facilities at

PLOT NO. 143, SURAT, GUJARAT, INDIA

in the field of

TESTING

Certificate Number: TC-10605

Issue Date: 05/05/2022 **Valid Until:** 04/05/2024

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)

Name of Legal Entity : MAN MADE TEXTILES RESEARCH ASSOCIATION

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	MAN MADE TEXTILES RESEARCH ASSOCIATION (MANTRA), PLOT NO. 143, SURAT, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-10605	**Page No**	1 of 4
Validity	05/05/2022 to 04/05/2024	**Last Amended on**	-

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Arsenic (As)	APHA Part 3114 B (23rd Addition)
2	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Biochemical oxygen Demand (BOD3@27 deg C)	IS : 3025 (Part 44)
3	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Cadmium(Cd)	APHA 3111B Direct Air-Acetylene Flame Method(AAS) (23rd Addition)
4	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Chemical oxygen Demand (COD)	IS : 3025 (Part 58)
5	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Copper (Cu)	APHA 3111 B Direct Air-Acetylene Flame Method(AAS) (23rd Addition)
6	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Dissolved Oxygen (DO)	IS : 3025 (Part 38)
7	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Iron (Fe)	APHA 3111B Direct Air-Acetylene Flame Method(AAS) (23rd Addition)
8	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Lead (Pb)	APHA 3111B Direct Air-Acetylene Flame Method(AAS) (23rd Addition)
9	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Mercury(Hg)	APHA Part 3112 B (23rd Addition)
10	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Nickel (Ni)	APHA 3111 B Direct Air-Acetylene Flame Method(AAS) (23rd Addition)
11	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	pH	APHA 4500-H+ (23rd Addition)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Total Dissolved Solids (TDS)	APHA Part 2540 - C (23rd Addition)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Total Suspended Solids (TSS)	APHA Part 2540 - D (23rd Addition)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent	Zinc (Zn)	APHA 3111B Direct Air-Acetylene Flame Method(AAS) (23rd Addition)
15	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibres, Yarns & Fabric	Determination of pH value of Aqueous Extracts of textile materials (Hot and Cold method)	IS 1390

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-10605	**Page No**	2 of 4
Validity	05/05/2022 to 04/05/2024	**Last Amended on**	-

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16	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibres, Yarns & Fabric	Identification of textile fibre	AATCC-20
17	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibres, Yarns & Fabric	Identification of Textile Fibres	IS 667
18	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibres, Yarns & Fabric	Percent composition of Binary Mixtures of Polyester Fibre with Cotton or Regenerated Cellulose (P+C and P+V)	IS 3416
19	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibres, Yarns & Fabric	Quantitative Analysis of fibre mixture by physical separation	AATCC 20A
20	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Fibres, Yarns & Fabric	Quantitative analysis of fibre mixture poly/viscose	AATCC 20A
21	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric	Colour fastness to washing with soap or soap & soda	IS/ISO 105-10
22	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric	Colour fastness to washing with soap or soap & soda	IS/ISO 105-C10 [A1]
23	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished Fabric	Rubbing fastness	AATCC 8
24	CHEMICAL- TEXTILE (WOVEN & NON WOVEN)	Finished fabric	Rubbing fastness	IS 766
25	CHEMICAL- WATER	Surface and Ground water	Filterable Residue (Total Dissolved Solids) in water	IS 3025 (Part-16)
26	CHEMICAL- WATER	Surface and Ground water	Non-filterable Residue (Total Suspended Solids) in water	IS 3025 (Part-17)
27	CHEMICAL- WATER	Surface and Ground water	pH	IS 3025 (Part- 11)
28	CHEMICAL- WATER	Surface and Ground water	Total Chloride in water	IS 3025 (Part-32)
29	CHEMICAL- WATER	Surface and Ground water	Total Hardness in water	IS 3025 (Part-21)
30	CHEMICAL- WATER	Surface and Ground water	Total Residue (Total Solids – Dissolved and Suspended) in water	IS 3025 (Part-15)
31	MECHANICAL- TEXTILE MATERIALS	Fabric	Breaking Force and Elongation of Textile Fabrics (Strip Method)	ASTM D5035 - 11
32	MECHANICAL- TEXTILE MATERIALS	Fabric	Breaking Force and Elongation of Textile Fabrics (Strip Method)	ASTM D5035 - 11
33	MECHANICAL- TEXTILE MATERIALS	Fabric	Determination of Maximum Force of fabric	IS 1969 : (Part 1)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-10605	**Page No**	3 of 4
Validity	05/05/2022 to 04/05/2024	**Last Amended on**	-

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34	MECHANICAL- TEXTILE MATERIALS	Fabric	Determination of Maximum Force of fabric	ISO 13934-1
35	MECHANICAL- TEXTILE MATERIALS	Fabric	Elongation of fabric	IS 1969 : (Part 1)
36	MECHANICAL- TEXTILE MATERIALS	Fabric	Elongation of fabric	ISO 13934-1
37	MECHANICAL- TEXTILE MATERIALS	Fabric	Fabric propensity to surface fuzzing and to pilling -- Part 2: Modified Martindale method	ISO 12945-2
38	MECHANICAL- TEXTILE MATERIALS	Fabric	Length of Woven Fabric	ASTM D3773 / D3773M - 10
39	MECHANICAL- TEXTILE MATERIALS	Fabric	Mass Per Unit Area (Weight) of Fabric	ASTM D3776 / D3776M - 20
40	MECHANICAL- TEXTILE MATERIALS	Fabric	Mass per unit area of fabric (Method 5)	ISO 3801
41	MECHANICAL- TEXTILE MATERIALS	Fabric	Mass per unit area of fabric (Method A)	IS 1964
42	MECHANICAL- TEXTILE MATERIALS	Fabric	Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Martindale Tester	ASTM D4970 / D4970M - 16e3
43	MECHANICAL- TEXTILE MATERIALS	Fabric	Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf - Type)	ISO 13937-1
44	MECHANICAL- TEXTILE MATERIALS	Fabric	Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type)	ASTM D1424 - 21
45	MECHANICAL- TEXTILE MATERIALS	Fabric	Twist of Yarn removed from fabric	ASTM D1423 / D1423M - 16
46	MECHANICAL- TEXTILE MATERIALS	Fabric	Warp End Count and Filling Pick Count of Woven Fabric	ASTM D3775 - 17e1
47	MECHANICAL- TEXTILE MATERIALS	Fabric	Width of Woven Fabric	ASTM D3774 - 18
48	MECHANICAL- TEXTILE MATERIALS	Spun & Filament Yarn	Linear Density of Yarn (Yarn Number) by the Skein Method	ASTM D1907 / D1907M - 12
49	MECHANICAL- TEXTILE MATERIALS	Spun & Filament Yarn	Tensile Properties of Yarn by the Single-Strand Method	ASTM D2256 / D2256M
50	MECHANICAL- TEXTILE MATERIALS	Spun & Filament Yarn	Tensile Properties of Yarn by the Single-Strand Method	ASTM D2256 / D2256M

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-10605	**Page No**	4 of 4
Validity	05/05/2022 to 04/05/2024	**Last Amended on**	-

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51	MECHANICAL- TEXTILE MATERIALS	Spun & Filament Yarn	Twist in Yarn by Direct Counting	ASTM D1423 / D1423M - 16
52	MECHANICAL- TEXTILE MATERIALS	Yarn & Fabric	Number of Filaments in Yarn	MANTRA/M/LAB TM-01 (In-House Test Method)
53	MECHANICAL- TEXTILE MATERIALS	Yarn & fabric	Yarn Number Based on Short-Length Specimens	MANTRA/M /LAB TM-02 (In-House Test Method)