



ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

TÜV Rheinland Bangladesh Pvt. Ltd.

Plot#17, Road#113/A, Alauddin Tower (5th-8th Floor)

Gulshan-2, Dhaka-1212, Bangladesh

This is to certify that this

Testing Laboratory

is accredited in accordance with the international standard

ISO/IEC 17025:2017

in respect of the associated scope, subject to the terms and
conditions governing the relevant conformity assessment
body (CAB) accreditation.

Certificate Number : 01.035.16
Accreditation Date : 27 June 2016
Date of Issuance : 07 September 2026 (3rd Renewal)
Date of Expiration : 26 June 2029



A. Z. Islam
Mohd. Aminul Islam
Director General

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific
scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.

SCOPE OF ACCREDITATION

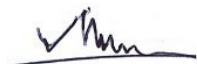
(For Testing Laboratory)

CAB Name & Address: TÜV Rheinland Bangladesh Pvt. Ltd.,
Plot 17, Road 113/A, Alauddin Tower (2nd, 5th – 8th Floors), Gulshan-2,
Dhaka-1212, Bangladesh

Accreditation Standard: ISO/IEC 17025:2017
Certificate Number: 01.035.16
Last Amended on:
Amendment no:

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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Mechanical Testing				
1	Textile Fabric & Garment	Breaking Strength & Elongation (Grab Method)	ASTM D5034:2025	20 N to 4500 N (4.5 lb – 1011 lb) 5% to 30%
		Maximum Force & Elongation (Strip Method)	ASTM D5035:2024 ISO 13934-1:2013 SASO 2139:2003	20 N to 4500 N (4.5 lb – 1011 lb) 5% to 30%
		Maximum Force (Grab Method)	ISO 13934- 2:2014	20 N to 4500 N (4.5 lb – 1011 lb)
2	Textile Fabric & Garment	Tear Strength (Elmendorf type) Tear Force (Elmendorf type)	ASTM D1424:2025 ISO 13937-1:2000	2 N to 62 N (0.4 lb to 14 lb)
3	Textile Fabric & Garment	Dimensional Change in washing and drying	ISO 3759:2011 ISO 6330:2021 ISO 5077:2007 GB/T 8628:2013 GB/T 8629:2017 GB/T 8630:2013 SASO ISO 3759:2011 SASO 2140:2003	-30.0% to +30.0%
		Dimensional Change after Home Laundering (Fabric / Garment)	AATCC 135:2025 AATCC 150:2025	
4	Textile Fabric & Garment	Skewness Change After Home Laundering Spirality after Laundering: Knitted Garments Woven and Knitted Fabrics Woven and Knitted Garments	AATCC 179:2025 ISO 16322-1:2005 ISO 16322-2:2021 ISO 16322-3:2021	- 30.0% to +30.0%
5	Textile Fabric & Garment	Appearance after Repeated Home Laundering Appearance after Domestic Washing & Drying	AATCC 143:2018 AATCC 124:2018 ISO 15487:2018	Grade 1 to 5
6	Textile Fabric & Garment	Mass per unit Area	ISO 3801:1977 EN 12127:1997 ASTM D3776:2025	(20 to 600) GSM


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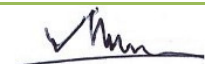
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			SASO 1938:2019	
7	Textile Fabric & Garment	Maximum Force to Seam Rupture (Grab Method) Seam Strength of Woven Apparel Fabric	ISO 13935-2:2026 ASTM D1683M:2022	20 N to 4500 N (5 lb – 900 lb)
8	Textile Fabric & Garment	Slippage Resistance of Yarns at a Seam in Woven Fabrics: Fixed Seam Opening Method Fixed Load method Seam Method Seam Slippage in Woven Apparel Fabrics Slippage Resistance of Yarns in Woven Fabrics using a Standard Seam	ISO 13936-1:2004 ISO 13936-2:2004 BS 3320:1988 ASTM D1683M:2022 ASTM D434:1995	20N to 4500N
9	Textile Fabric & Garment	Bursting Strength (Diaphragm/ Hydraulic Method) Pneumatic method	ISO 13938-1:2019 ASTM D 3786M:2023 ISO 13938-2:2019	(100 to 2000) kPa (14.5 to 290 psi)
10	Textile Fabric & Garment	Fabric Propensity to Surface fuzzing and to Pilling: Pilling Box Method Modified Martindale method Random Tumble Pilling Tester Assessment by Visual analysis	BS EN ISO 12945-1: 2020 ISO 12945-1: 2020 BS EN ISO 12945-2: 2020 ISO 12945-2: 2020 ASTM D3512:2022 ISO 12945-4:2020	Qualitative Grade 1 to 5
11	Textile Fabric & Garment	Abrasion Resistance of Fabric (Martindale method) Specimen Break down Mass loss Appearance	ISO 12947 (Part 2):2016 ASTM D 4966:2022 Option 1 ISO12947 Part 3:1998 ASTM D 4966:2022 Option 3 ISO12947 Part 4:1998 ASTM D 4966:2022 Option 2	16 to 99999 cycles Qualitative Weight loss (0 – 1) g
12	Textile Fabric & Garment	Mace Snagging Test	ASTM D3939:2026 GB/T 11047:2008 JIS L 1058:2021	Qualitative
13	Textile Fabric & Garment	Determination of fabric propensity to surface fuzzing and to Pilling, Part 1: Circular locus method	GB/T 4802.1:2008	Qualitative
14	Textile Fabric & Garment	Stretch & Recovery: Strip test	BS EN 14704-1:2005 EN ISO 20932-1:2020	Up to 200%


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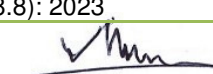
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		Stretch Properties of Woven fabrics	+A1:2021 BS EN 14704-3:2006 EN ISO 20932-3:2020+ A1:2025 ASTM D 4964: 2020 ASTM D 3107: 2019 ASTM D 2594:2021	
		Stretch properties of Knitted fabric		
15	Textile Fabric & Garment	Thread Per Unit Length (Fabric Count) Woven fabric Knitted Fabric	ISO 7211-2:2024 ASTM D3775:2023 SASO 183/ GS 1269:2002 BS 5441:1988+A1:2019 ASTM D3887:2008	10 to 150 thread/cm (25 to 380 threads per inch)
16	Textile Fabric & Garment	Linear Density of Yarn Removed from Fabric	ISO 7211-5:2020 ASTM D1059:2022	5 tex to 100 tex (6 Ne to 118 Ne)
17	Textile Fabric & Garment	Water Repellency (Resistance to surface wetting– Spray Test	ISO 4920:2012 AATCC 22:2024	Rating: 0 to 5 Rating: 0-100
18	Textile Fabric & Garment	Flammability of Clothing Textiles	16 CFR Part 1610:2026 ASTM D 1230:2025 CAN/CGSB 4.2 no 27.5:2023 SOR/2016-169	Qualitative Class 1 to 3
19	Textile Fabric & Garment	Flammability of Children's Sleepwear: Sizes 0 through 6X (FF 3–71)	16 CFR Part 1615:2026	Char Length: 0 cm to 25 cm (0 inch to 10 inch)
20	Textile Fabric & Garment	Flammability of Children's Sleepwear: Sizes 7 through 14 (FF 5–74)	16 CFR Part 1616:2026	Char Length: 0 cm to 25 cm (0 inch to 10 inch)
21	Textile Fabric & Garment	Burning Behavior on Children Nightwear	BS EN ISO 6941:2026 BS EN 14878:2007 BS EN 1103:2005	0.1 - 90 second
22	Textile Fabric & Garment	Flammability Performance of fabrics used in Sleepwear Specification	BS 5722:1991 BS 5438:1989	0.1 - 90 second
23	Textile Fur Fabrics & Garment	Ignitability (surface flash) of Pile Fabrics	BS 4569:1983	Qualitative
24	Textile Garment Accessories	Tension Test	16 CFR 1500.51-53:2026 ASTM F 963 (Cl. 8.9): 2023	Qualitative
25	Textile Garment Accessories	Torque Test	16 CFR 1500.51-53:2026 ASTM F 963 (Cl. 8.8): 2023	Qualitative


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26	Textile Garment Accessories	Sharp Point Test Accessible Points	16 CFR 1500.48:2026 ASTM F 963 (Cl. 4.9): 2023	Qualitative
27	Textile Garment Accessories	Sharp Edge Test Accessible Edges	16 CFR 1500.49:2026 ASTM F 963 (Cl. 4.7): 2023	Qualitative
28	Textile Garment Accessories	Small Parts Test (Chocking Hazard) Small Objects (Chocking Hazard)	16 CFR Part 1501:2026 ASTM F 963 (Cl. 4.6):2023	Qualitative
29	Textile Garment Accessories	Cords and drawstrings on children's clothing	ASTM F1816:2024 BS EN 14682:2014	Qualitative
30	Textile Garment Accessories	Safety of toys - Part 1: Mechanical and physical properties	EN 71-1:2026 (section: 8.2, 8.3, 8.4, 8.11, 8.12)	Qualitative
31	Textile Garment Accessories	Impact Resistance of Plastic Sew-Through Flange Buttons	ASTM D 5171:2025	Qualitative
32	Textile Garment Accessories	Zipper Performance Test	ASTM D2061:2021 ASTM D2062:2021 BS 3084:2006 DIN 3419-1:1998 BS EN 16732:2025	20 N to 4500N
33	Textile Fabric & Garment	Safety of children's clothing	CEN/TR 16792:2014 BS 7907:2007	20N to 4500N
34	Textile Garment Accessories	Safety of children's clothing Specifications	CEN/TS 17394-1:2021	Qualitative
		Security of attachment of buttons	EN 17394-2:2020	20N to 4500N
		Attachment strength of other metallic components other than fasteners	CEN/TS 17394-3:2021	20N to 4500N
		Security of attachment of components except buttons and metal mechanically applied press fasteners	CEN/TS 17394-4:2021	Qualitative
35	Textile Fabric	Fabric width	ASTM D3774 :2024 ISO 22198:2006	10cm to 500 cm
36	Textile Fabric	Fabric thickness	BS EN ISO 5084:1997 ASTM D1777:2026	0.1mm to 12 mm
37	Textile- Printed fabric / Garment	Print durability	In-house method (MS-0045605)	Qualitative Grade 1 to 5
38	Textile Fabric &	Soil Release: Oily Stain	AATCC 130:2025	Qualitative


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	Garment	Release		Grade 1 to 5
39	Textile Fabric & Garment	Hydrostatic Pressure Test	ISO 811:2018 EN 20811:1992 AATCC 127: 2018	(1 to 10000) mbar
40	Textile Fabric & Garment	Solar UV Protection Properties	EN 13758-1:2001+A1:2006 EN 13758-2:2003+A1:2006 AATCC 183: 2020 AS/NZS 4399:2020	280nm-400nm
41	Textile Fabric & Garment	Water Vapor Transmission of Materials	ASTM E96/E96M:24 BS 7209:1990	1-∞
42	Textile Fabric & Garment	Jerking Test	In-house method (MS-0053968)	1-5000 cycle
43	Footwear products (Heel)	Heel Fatigue	SATRA TM21: 2017 ISO 19956: 2004	1 to 9,99,99,999 Blows
44	Footwear products (Heel)	Heel Impact	SATRA TM20: 2017 BS 5131: 1990 (4.8)	0.5 J to 19 J, 0.68 J to 18.3 J
45	Footwear products (Leather, Coated Leather & Textiles)	Martindale Abrasion Resistance	SATRA TM31: 2021 ISO 17704: 2004 BS EN 13520: 2004	1-99,99,999 Rev.
46	Footwear products (Outsole)	Bennewart Flexing	SATRA TM161:2004, BS EN ISO 17707: 2005	0.1- 20 mm
47	Footwear products (Leather, Coated Leather)	Bally Flexing	SATRA TM55: 1999, ISO 5402-1: 2022, EN ISO 17694: 2016	1-99,99,99,999 Flex
48	Footwear products (Outsole)	Ross Flexing	SATRA TM60:2020	0.1- 20 mm
49	Footwear accessories (Shoelace)	Shoelace to Shoelace Abrasion	SATRA TM154: 2018 ISO 22774: 2004	1-99,99,99,999 cycle
50	Footwear products (Leather, Coated Leather)	Maeser Water Penetration	SATRA TM34: 2019	1-99,99,99,999 cycle
51	Footwear products	Thickness	SATRA TM1: 2021 ISO 2589: 2016	0.01-10 mm


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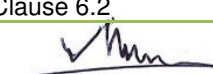
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	(Leather, Coated Leather & Textiles)			
52	Footwear products (Outsole)	Compression Set	ISO 815-1: 2019	1-100 mm
53	Footwear of all types	Whole Shoe Flexing	SATRA TM92: 2016	1-99,99,99,999 cycle
54	Footwear products (Outsole)	Hardness	SATRA TM205: 2017 EN ISO 868: 2003	1-100 Shore A, C, D, 00
55	Footwear products (Outsole)	Density	SATRA TM134: 2024 ISO 2781: 2018	0.001-9.999 gm/cm3
56	Footwear products (Outsole)	Abrasion Resistance of Outsole	SATRA TM174: 2016 ISO 20871: 2018, EN 12770: 2000	1-1000 mm3
57	Footwear products (Leather)	Ball Burst Test	SATRA TM24: 2017	100 Kgf (980.7 N) 250 Kgf (2451.7 N)
58	Footwear of all types	Sole Bond Strength	ISO 17708:2018 SATRA TM411: 2025 SATRA TM281:2002	100 Kgf (980.7 N) 250 Kgf (2451.7 N)
59	Footwear products (Leather)	Tear strength	SATRA TM30: 2017 SATRA TM162: 2017 ISO 3377-1: 2011 ISO 3377-2:2025 ISO 17696:2004	100 Kgf (980.7 N) 250 Kgf (2451.7 N)
60	Footwear products (Heel)	Heel Measurement	SATRA TM19: 2001	0.5-300 mm
61	Footwear products (Leather)	Tensile Strength	SATRA TM43: 2021, ISO 3376:2020, ISO 17706:2003	100 Kgf (980.7 N) 250 Kgf (2451.7 N)
62	Safety Footwear all types	Toe Impact Resistance (I)	ASTM F2412: 2024 Clause 5 ASTM F2413: 2024 Clause 5.2 ISO 20344: 2024 Clause 5.4 ISO 20345: 2024 Clause 5.3.2.6, CSA Z195: 2014 Clause 6.2	1-30 mm


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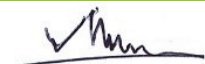
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63	Safety Footwear all types	Metatarsal Impact Resistance (Mt)	ASTM F2412: 2024 Clause 7 ASTM F2413: 2024 Clause 5.4 ISO 20344: 2024 Clause 5.20 ISO 20345: 2024 Clause 6.2.6 CSA Z195: 2014 Clause 6.4	1-30 mm
64	Safety Footwear all types	Toe Compression Resistance (C)	ASTM F2412: 2024 Clause 6 ASTM F2413: 2024 Clause 5.3 ISO 20344: 2024 Clause 5.5 ISO 20345: 2024 Clause 5.3.2.7	1-30 mm
65	Safety Footwear all types	Puncture Resistance (PR)	ASTM F2412: 2024 Clause 11 ASTM F2413: 2024 Clause 5.8, ISO 20344: 2024 Clause 5.9 & 5.10, ISO 20345: 2024 Clause 6.2.1 CSA Z195: 2014 Clause 6.3.1	0.1N- 25,000N
66	Safety Footwear all types	Conductive Protective Footwear (Cd)	ASTM F2412: 2024 Clause 8 ASTM F2413: 2024 Clause 5.5 ISO 20344: 2024 Clause 5.13 ISO 20345: 2024 Clause 6.2.2 CSA Z195: 2014 Clause 6.7	0.1 MΩ- 99.9 MΩ
67	Safety Footwear all types	Static Dissipative Footwear (SD)	ASTM F2412: 2024 Clause 10 ASTM F2413: 2024 Clause 5.7 CSA Z195: 2014 Clause 6.6	0.1 MΩ- 99.9 MΩ
68	Safety Footwear all types	Electric Hazard Resistance (EH)	ASTM F2412: 2024 Clause 9 ASTM F2413: 2024 Clause 5.6 CSA Z195: 2014 Clause 6.5	0.01mA- 1.00 mA
69	Safety Footwear	Flex Resistance	ASTM F2412: 2024 Clause	1-10,00,000 cycle


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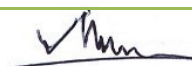
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	all types		11.7 ASTM F2413: 2024 Clause 5.8.8 ISO 20344: 2024 Clause 5.12 ISO 20345: 2024 Clause 6.2.1.4.1 CSA Z195: 2014 Clause 6.3.2	
70	Footwear & Outsole all types	Slip Resistance	SATRA TM144: 2021 ASTM F2913: 2024 ISO 20344: 2024 Clause 5.14 ISO 20345: 2024 Clause 5.3.5 & 6.2.10 CSA Z195: 2014 Clause 6.9	400N – 980N
71	Waterproof Footwear	Flexing machine – Water penetration test	SATRA TM77: 2017	1-1,00,000 cycle
72	Footwear with Straps	Strap attachment Strength	SATRA TM120: 2021	100 Kgf (980.7 N) 250 Kgf (2451.7 N)
73	Footwear accessories (Shoelace)	Shoelace breaking strength	SATRA TM94: 2018	100 Kgf (980.7 N) 250 Kgf (2451.7 N)
74	Footwear of all types	Hydrolysis	SATRA TM344: 2022	Temp: (35-100) °C RH: (50-100) %
75	Footwear of all types	Ageing	EN ISO 17228:2015 ISO 20870:2017	Temp: (35-100) °C RH: (50-100) %
76	Footwear with toe post	Toe post attachment	SATRA TM 118: 2025	100 Kgf (980.7 N) 250 Kgf (2451.7 N)
77	Footwear with high heel	Heel attachment	BS EN 12785: 2000 ISO 22650: 2018	(100 to 250) Kgf (980.7 N) 250 Kgf (2451.7 N)


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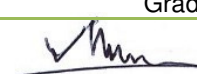
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Field: Chemical Testing				
1	Textile Fabric & Garment	Colorfastness to Light	AATCC 16.3:2020 ISO 105 B02:2014 GB/T 8427:2019	Grade 1 to 5 BWS Rating 1-8
2	Textile Fabric, Garment & accessories	Colorfastness to Saliva	DIN 53160-1:2023 DIN 53160-2:2023 GB/T 18886:2019	Qualitative Grade 1 to 5
3	Textile Fabric, Garment & accessories	Colorfastness to Washing	ISO 105 C06 :2010 ISO 105 C10 :2006 ISO 105 C08:2010 AATCC 61:2020 GB/T 12490:2014 GB/T 3921:2008 SASO 2329:2005	Qualitative Grade 1 to 5
4	Textile Fabric & Garment	Colorfastness to Rubbing	ISO 105 X12 :2016 BSEN ISO 105 X12 :2016 AATCC 8 :2022 GB/T 3920:2024 SASO 2330:2005	Qualitative Grade 1 to 5
5	Textile Fabric & Garment	Colorfastness to Rubbing (Rotary Vertical Crockmeter Method)	ISO 105X16:2016 AATCC 116:2022	Qualitative Grade 1 to 5
6	Textile Fabric, Garment & accessories	Colorfastness to Perspiration	ISO 105 E04:2013 BS EN ISO 105 E04:2013 AATCC 15:2021 GB/T 3922:2013 SASO 171/GS 1268:2002	Qualitative Grade 1 to 5
7	Textile Fabric, Garment & accessories	Colorfastness to Water	AATCC 107:2022 ISO 105 E01: 2013 GB/T 5713:2013	Qualitative Grade 1 to 5
8	Textile Fabric, Garment & accessories	Colorfastness to Sea Water	AATCC 106: 2025 ISO 105 E02: 2013	Qualitative Grade 1 to 5
9	Textile Fabric & Garment	Colorfastness to Light & Perspiration	ISO 105 B07:2009 AATCC 125:2020	BWS Rating 1 to 8 Grade 1 to 5
10	Textile Fabric & Garment	Colorfastness to Dry Cleaning	ISO 105 D01:2010 AATCC 132:2013	Qualitative Grade 1 to 5


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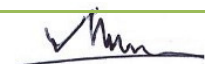
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11	Textile Fabric & Garment	Fiber Analysis	GB/T 5711:2015 SASO 2324:2024 ISO 1833-1:2020 ISO 1833-2:2020 ISO 1833-3:2020 ISO 1833-4:2023 ISO 1833-6:2018 ISO 1833-7:2017 ISO 1833-11:2017 ISO 1833-12:2020 ISO 1833-20:2018 AATCC20:2021 AATCC20A:2025 GB/T 2910.1:2009 GB/T 2910.5:2009 GB/T 2910.7:2025 GB/T 2910.11:2024 GB/T 2910.20:2009 SASO 781/GS 431:1994	Quantitative 0.1 to 100%
12	Textile Fabric & Garment	Colorfastness to Phenolic Yellowing	ISO 105 X18:2007	Qualitative Grade 1 to 5
13	Textile Fabric & Garment	Colorfastness to Dye Transfer	AATCC 163:2020	Qualitative Grade 1 to 5
14	Textile Fabric & Garment	Colorfastness to Chlorinated water	ISO 105 E03:2010 AATCC 162:2011	Qualitative Grade 1 to 5
15	Textile fabric, Garment & accessories	Colorfastness to Assessment of migration of textile colours into PVC coatings	BS EN ISO105-X10:1995 ISO 105-X10:1993	Qualitative Grade 1 to 5
16	Textile Fabric & Garment	Colorfastness to Hot Pressing	BS EN ISO105X11:2026 ISO 105-X11:2026	Qualitative Grade 1 to 5
17	Textile Fabric & Garment	Colorfastness to Chlorine and Non chlorine	AATCC/ASTM TS001	Qualitative Grade 1 to 5
18	Textile Fabric & Garment	Odor Test	GB 18401-6.7:2010 SNR 195651:2015	Qualitative Grade 1 to 5
19	Textile Fabric & Garment	Colorfastness to Ozone	AATCC 109:2016 ISO 105 G03:1993	Qualitative Grade 1 to 5
20	Textile Fabric & Garment	Absorbency of Textiles	AATCC 79:2025	1 to 60 sec
21	Textile Fabric & Garment	Vertical Wicking of Textiles (Specified Distance)	AATCC 197:2022 AATCC 213:2022	0 to 200 mm


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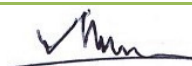
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22	Leather, Textile & Coated fabric	Colorfastness to rubbing- crock meter test	SATRA TM 167: 2017	Qualitative Grade 1 to 5
23	Footwear products (Leather, Coated Leather & Textiles)	Color Fastness to Rubbing	SATRA TM173: 2021 EN ISO 11640: 2018 ISO 17700: 2019	1 to 9,99,999 cycles
24	Leather, Textile & Coated fabric	Colorfastness to light from a xenon arc	SATRA TM 160: 2025	Qualitative Grade 1 to 5
25	Leather, Textile & Coated fabric	Colorfastness to water spotting	SATRA TM 185:2021 BS EN ISO 15700: 1999	Qualitative Grade 1 to 5
26	Leather, Textile & Coated fabric	Colorfastness to water	BS EN ISO 11642: 2025	Qualitative Grade 1 to 5
27	Leather, Textile & Coated fabric	Colorfastness to water or perspiration	SATRA TM 335: 2018	Qualitative Grade 1 to 5
28	Leather, Textile & Coated fabric	Colorfastness to perspiration	BS EN ISO 11641: 2025	Qualitative Grade 1 to 5
29	Textile, Textile Accessories and Chemicals	Azo Dyes (Banned Amines) 1) 4-Aminobiphenyl 2) Benzidine 3) 4-Chloro-O-Toluidine 4) 2-Naphthylamine 5) O-Aminoazotoluene 6) 5-Nitro-o-toluidine. 7) 4-Chloroaniline 8) 2,4'-Diaminoanisole. 9) 4,4'-Diaminodiphenyl methane. 10) 3,3'- Dichlorobenzidine 11) 3,3'-Dimethoxybenzidine 12) 3,3'-Dimethylbenzidine 13) 3,3'-Dimethyl-4,4'- Diaminodiphenylmethane. 14) p-Cresidine 15) 4,4' Methylene -bis- 2 Chloroaniline 16) 4,4'-Oxydianiline 17) 4,4'-Thiodianiline 18) o-Toluidine 19) 2,4 – Toluyldiamine.	EN ISO 14362-1:2017 EN ISO 14362-3:2017 GB/T 17592:2024 GB/T 23344:2009 In House Method (MS-0044613-Spec11)	5 - 1000 mg/kg


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		20) 2, 4,5 Trimethylaniline. 21) o-Anisidine 22) 4-Aminoazobenzene 23) 2, 4 Xylidine 24) 2,6 Xylidine 25) Aniline 26) 1,4 Phenylenediamine 27) 4-Chloro-o-toluidinium chloride 28) 2,4,5-Trimethylaniline hydrochloride 29) 2- Naphthylammoniumacetat 30) 2,4-Diaminoanisole sulphate		
30	Textile, Textile Accessories and Chemicals	Phthalates 1) DBP: Dibutyl Phthalate 2) DIBP: Di-Isobutyl Phthalat 3) BBP: Benzylbutyl Phthalate 4) DEHP: Bis(2-Ethylhexyl) Phthalate 5) DNOP: Di-n-octyl hthalate 6) DINP: Di-isononyl Phthalate 7) DIDP: Di-isodecyl Phthalate 8) DMEP: Di Methoxy ethyl Phthalate 9) DIPP: Di-iso pentyl Phthalate 10) DIHP: 1,2 Dicarboxylic Acid 11) DHP: Dihexyl Phthalate 12) DEP: Diethyl Phthalate 13) DCHP: Di-cyclohexyl Phthalate 14) DPP: Dipentyl Phthalat 15) DnHP: Di-n-hexyl Phthalate 16) PiPP-N-pentyl- isopentylphthlate 17) DNP: Dinonyl Phthalate 18) DIOP: Di-iso-octyl Phthalate 19) DMP: Dimethyl Phthalate 20) NPIP: Pentyl-iso-pentyl	CPSC-CH-C1001-09.4:2018 EN ISO 14389:2022 GB/T 20388:2016 EN 14372:2004 In House Method (MS-0045464-Spec03) 16 CFR Part 1307:2026	10 - 20000 mg/kg

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		phthalate 21) DPHP: Bis-(2-ethylhexyl) phthalate 22) DNPP: Di-n-pentyl phthalate 23) DMPP Bis(4-methylpentyl) Phthalate 24) DUDP/DUNP: Di-n-undecyl Phthalate/ Bis-n-undecyl ester 25) DiHexP(1,2-benzene dicarboxylic acid, dihexyl ester) 26) DINCH (1,2- Cyclohexanedicarboxylic acid, 1,2-diisononyl ester 27) DAP (Diallyl phthalate 28) EPEG (Ethyl Phthalyl Ethyl Glycolate) 29) BPBG (Butyl Phthalyl Butyl Glycolate) 30) DHNuP(Dialkyl Phthalate) 31) TBPH(Bis(2-ethylhexyl) tetrabromophthalate) 32) Di-n-propyl phthalate (DPRP)		
31	Textile Accessories	Nickel Release in Metal/Alloy	EN 1811:2023 EN 12472:2020 EN 16128:2025 In House Method (MS-0045474, MS-0041017-Spec04)	0.02 - 1000 µg/cm ² /week
32	Textile Accessories	Nickel Spot	CEN/TR 12471:2022	Qualitative
33	Textile, Textile Accessories and Chemicals	Lead in Surface Coating	CPSC-CH-E1003-09.1: 2011 16 CFR Part 1303:2026 4.3.5.1(2) (ASTM F963): Paint and Similar Surface Coating Materials EN 16711-1:2015 EN 16711-3:2019 In House Method	5 - 10000 mg/kg


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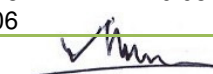
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			(MS-0045476)	
34	Textile, Textile Accessories and Chemicals	Lead in Nonmetal Children product	CPSC-CH-E1002-8.3: 2012 EN 16711-1:2015 EN 16711-3:2019 In House Method (MS-0045475) 16 CFR Part 1303:2026 4.3.5.2 (ASTM F963): Toy Substrate Materials 15 USC 1278a: Total Lead Content for Children's Products	5 - 10000 mg/kg
35	Textile, Textile Accessories and Chemicals	Total Lead in children metal products and children metal jewelry	CPSC-CH-E1001-08.3: 2012 EN 16711-1 :2015, EN 16711-3:2019 In House Method (MS-0045477) 16 CFR Part 1303:2026 4.3.5.2 (ASTM F963): Toy Substrate Materials 15 USC 1278a: Total Lead Content for Children's Products	5 - 10000 mg/kg
36	Textile, Textile Accessories and Chemicals	Cadmium in Plastic & Metal accessories	DIN EN-1122:2002 EN 16711-1 :2015 CPSC-CH-E1004-11:2011 In House Method (MS-0045478)	2 - 10000 mg/kg
37	Textile, Textile Accessories and Chemicals	Alkylphenol (AP) & Alkylphenol Ethoxylates (APEO) 1) 4-n-Nonylphenol 2) NP Technical 3) 4-n-OP 4) 4-tert-OP 5) NPEO 6) OPEO 7) 4-Pentylphenol (PeP) 8) Heptylphenol (HpP) 9) 4-tert-butylphenol	ISO 18254-1:2016 ISO 21084:2019 In House Method (MS-0045487, MS-0045488, MS-0041974-Spec16)	2 -10000 mg/kg
38	Textile, Textile Accessories and	Chlorinated Phenols and Orthophenyl phenol	BVL B 82.02-8:2025 GB/T 18414-1:2006	0.05 -10000 mg/kg


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	Chemicals	1) 2,4,6 – Trichlorophenol 2) 2,3,5 – Trichlorophenol 3) 2,3,6 – Trichlorophenol 4) 2,4,5 – Trichlorophenol 5) 3,4,5 – Trichlorophenol 6) 2,3,4 – Trichlorophenol 7) 2,3,5,6 – Tetrachlorophenol 8) 2,3,4,6 – Tetrachlorophenol 9) 2,3,4,5 – Tetrachlorophenol 10) Pentachlorophenol [PCP] 11) 2-CP-2 Chlorophenol 12) 3-CP-3 Chlorophenol 13) 4-CP- 4 Chlorophenol 14) 2,6-DCP 15) 2,5-DCP 16) 3,5-DCP 17) 2,4-DCP 18) 2,3-DCP 19) 3,4-DCP 20) 2,4,6-TBP 21) Ortho-Phenylphenol [OPP] 22) 2,6-DMP 23) Tetrachlorophenol (TeCP) 24) Trichlorophenol (TriCP)	EN 17134-2:2023 In House Method (MS-0045486)	
39	Textile, Textile Accessories and Chemicals	Organotin 1) Dimethyltin chloride (DMeTCL) 2) Trimethyltin chloride (TMeTCL) 3) Methyltin trichloride (MeTCL) 4) Dipropyltin chloride (DProTCL) 5) Monobutyltin chloride (MBTCL) 6) Dibutyltin chloride (DBTCL) 7) Tri-n-Propyl tin (TnPT) 8) Tributyltin chloride (TBTC) 9) Monooctyltin (MOT) 10) Tetraoctyltin (TeBT) 11) Diphenyltin dichloride	EN ISO 16179:2025 EN ISO 22744-1:2020 In House Method (MS-0045489)	0.01 - 1000 mg/kg


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		(DPhTCL) 12) Dioctyltin dichloride (DOT) 13) Triphenyltin chloride (TriphTCL) 14) Tricyclohexyltin chloride (TricycloTCL) 15) Trioctyltin (TOT) 16) N-Heptyltin-Trichloride 17) Tetra-n-Octyltin (TEOT)		
40	Textile, Textile Accessories and Chemicals	Migration of certain element 1) Aluminium 2) Antimony 3) Arsenic 4) Barium 5) Boron 6) Cadmium 7) Chromium 8) Cobalt 9) Copper 10) Lead 11) Manganese 12) Mercury 13) Nickel 14) Selenium 15) Strontium 16) Tin 17) Zinc 18) Cr-VI	EN 71-3:2019 + A2:2024 ASTM F963:2023 EN 1388-1 & 2:1997 DIN 51032:2017 ISO 8124-3:2020 In House Method (MS-0045481)	0.05-10000 mg/kg
41	Textile, Textile Accessories and Chemicals	Extractable Heavy metals 1) Antimony 2) Arsenic 3) Cadmium 4) Chromium 5) Cobalt 6) Copper 7) Lead 8) Manganese 9) Mercury 10) Nickel 11) Selenium 12) Barium	EN 16711-2:2015 ISO 105-E05:2010 In House Method (MS-0045479)	0.01-1000 mg/kg


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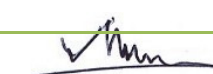
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		13) Zinc 14) Manganese 15) Tin		
42	Textile, Textile Accessories and Chemicals	Dimethyl fumarate (DMFu)	EN 17130:2019 EN ISO 16186:2021 In House Method (MS-0045494)	0.05-1000 mg/kg
43	Textile, Textile Accessories and Chemicals	Determination of formaldehyde. Free and hydrolyzed formaldehyde (water extraction method)	BS EN ISO 14184-1:2011 GB/T/ 2912.1:2009 SASO 2146:2003 JIS-L1041:2011 In House Method (MS-0054164)	5 - 2000 mg/kg
44	Textile, Textile Accessories and Chemicals	Determination of formaldehyde. Released formaldehyde (vapors absorption method)	BS EN ISO 14184-2:2011 AATCC TM 112:2020 GB/T/ 2912.2:2009 SASO 2143:2003 In House Method (MS-0054164)	5 - 2000 mg/kg
45	Textile, Textile Accessories and Chemicals	Allergenic and Carcinogenic dyes 1) Disperse Blue 102 2) Disperse Blue 106 3) Disperse Blue 124 4) Disperse Blue 1 5) Disperse Blue 26 6) Disperse Blue 7 7) Disperse Blue 3 8) Disperse Orange 1 9) Disperse Blue 35 10) Disperse Orange 3 11) Disperse Orange 11 12) Disperse Orange 149 13) Disperse Red 1 14) Disperse Red 11 15) Disperse Red 17 16) Disperse Yellow 1 17) Disperse Yellow 3 18) Disperse Yellow 9 19) Disperse Yellow 23 20) Disperse Yellow 49	DIN 54231:2022 ISO 16373-2:2014 EN ISO 16373-3:2014 In House Method (MS-0045483)	15-2000 mg/kg


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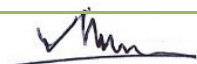
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		21) Disperse Brown 1 22) Disperse Yellow 7 23) Acid Red 26 24) Basic Violet 14 HCL 25) Direct Red 28 26) Basic Red 9 27) Direct Blue 2b/6 28) Direct Brown 95 29) Basic Violet 1 30) Disperse Yellow 39 31) Disperse Orange 37/76 32) Basic violet 3 33) Navy Blue 34) Acid red 14 35) Naphthol AS 36) Basic Red 46 37) Solvent Yellow 1 38) Solvent Yellow 2 39) Direct Black 38 40) Direct Red 28 41) Basic Blue 26 42) Basic Green 4 43) Disperse Red-151 44) Disperse Yellow 56 45) Solvent Yellow 3 46) Acid Red 114 47) Acid Violet 49 48) Direct Blue 15 49) Direct Blue 218 50) α, α -Bis [4-(dimethylamino) phenyl]-4-(methylamino)- benzenemethanol 51) Solvent Yellow 14 52) Michler's base 53) Michler's ketone 54) Quinoline 55) Pigment yellow 34 56) Pigment red 104 57) Acid orange 24 58) Disperse orange 61 59) 4,4-Methylene bis		


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		60) Solvent blue 4 61) Basic Green 1 62) Solvent yellow 34 63) Basic violet 10 64) Direct blue 53 65) Acid black 194 66) Acid red 73 67) Acid blue 113		
46	Textile, Textile Accessories and Chemicals	Determination of Polynuclear Aromatic Hydrocarbons (PAHs) 1) Napthalene 2) Acenaphthylene 3) Acenaphthene 4) Fluorene 5) Phenanthrene. 6) Anthracene 7) Fluoranthene. 8) Pyrene 9) 1-Methylpyrene 10) Cyclopenta (c,d) pyrene 11) Benzo(a)anthracene 12) Chrysene 13) Benzo(b)Flurenthene 14) Benzo(j)flurenthene 15) Benzo(k)Flurenthene 16) Benzo(e)pyrene 17) Benzo(a)pyrene. 18) Indeno(1,2,3-cd)pyrene. 19) Dibenzo(ah)anthracene. 20) Benzo(ghi) perylene. 21) Dibenzo(a 1) pyrene . 22) Dibenzo(a e) pyrene. 23) Dibenzo(a i) pyrene 24) Dibenzo(a h) pyrene	AfPS GS 2019:01 PAK In House Method (MS-0045493)	0.1-1000 mg/kg
47	Textile, Textile Accessories and Chemicals	Determination of Chlorinated Organic Carrier (COCs) 1) 2-Chlorotoluene 2) 3-Chlorotoluene 3) 4-Chlorotoluene 4) 1,2-Dichlorobenzene 5) 1,3-Dichlorobenzene	EN 17137:2024 In House Method (MS-0045484)	0.1 - 1000 mg/kg


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		6) 1,4-Dichlorobenzene 7) 2,3-Dichlorotoluene 8) 2,4-Dichlorotoluene 9) 2,5-Dichlorotoluene 10) 2,6-Dichlorotoluene 11) 3,4-Dichlorotoluene 12) 3,5-Dichlorotoluene 13) 1,2,3-Trichlorobenzene 14) 1,2,4-Trichlorobenzene 15) 1,3,5-Trichlorobenzene 16) 2,4,5-Trichlorotoluene 17) 2,3,6-Trichlorotoluene 18) 2,3,4-Trichlorotoluene 19) 1,2,3,4- Tetrachlorobenzene 20) 1,2,3,5- Tetrachlorobenzene 21) 1,2,4,5- Tetrachlorobenzene 22) Pentachlorobenzene 23) 2,3,4,5,6- Pentachlorotoluene 24) Hexachlorobenzene 25) a,a,a,4-Tetrachlorotoluene 26) Chlorobenzene 27) Benzyl chloride 28) α, α, α Trichlorotoluene 29) α 2,4 Trichlorotoluene 30) α 2,6 Trichlorotoluene 31) α 3,4 Trichlorotoluene 32) 2,3,4,5 Tetrachlorotoluene 33) 2,3,5,6 Tetrachlorotoluene 34) 2,3,4,6 Tetrachlorotoluene 35) 1,3,5 Trichloro-2- methylbenzene		
48	Textile, Textile Accessories and Chemicals	Dimethyl formamide (DMFa)	EN ISO 16189:2021 In House Method (MS-0039999-Spec10, MS-0045495)	2.5-2000 mg/kg
49	Textile, Textile Accessories and	Polyvinyl chloride Identification (PVC)	In House Method (MS-0045496)	Qualitative


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Chemicals				
50	Textile, Textile Accessories and Chemicals	Per- and polyfluoroalkyl substances (PFAS): 1) PFOA and Salts 2) PFNA and Salts 3) PFBS 4) PFOS and Salts 5) PFHxS and Salts 6) PFHxA and Salts 7) PFPeA 8) PFHpA 9) PFDA and Salts 10) PFUnA 11) PFDaA 12) PFTTrA(PFTTrDA) 13) PFTTeA(PFTTeDA) 14) PFHpS 15) PFDS 16) PF-3,7-DMOA 17) HPFHpA(7HPFHpA) 18) 4HPFUnA 19) 1H, 1H, 2H, 2H-PFOS 20) POSF 21) PFOSA(FOSA) 22) N-Me-FOSA 23) N-Et-FOSA 24) N-Me-FOSE 25) N-Et-FOSE 26) 4:2 FTOH 27) 6:2 FTOH 28) 8:2 FTOH 29) 10:2 FTOH 30) 12:2 FTOH 31) 6:2 FTA 32) 8:2 FTA 33) 10:2 FTA 34) NaPFN/APFN 35) PFBA 36) 6:2 FTMA 37) 8:2 FTMA 38) 10:2 FTMA	EN 17681-1:2025 EN 17681-2:2022 EN ISO 23702-1:2023 In House Method (MS-0045492)	0.1-100 µg/m ² and 0.01-10000 mg/kg


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		39) 4:2 FTS 40) 6:2 FTS 41) 8:2 FTS 42) 10:2 FTS 43) 10:2 FTI 44) 12:2 FTI 45) F-PFO(PFOA-F) 46) Me-PFOA 47) Et-PFOA 48) PFOSF 49) HPFO-DA and Salts 50) H2PFDA (8:2-FTCA) 51) PFHxSA 52) N-Me-FHxSA		
51	Textile, Textile Accessories and Chemicals	Toxic elements 1) Lead (Pb), 2) Cadmium (Cd) 3) Mercury (Hg) 4) Hexavalent Chromium (Cr VI)	CEN/TR 13695-2:2019 EN 62321-1:2013 EN 62321-4:2014 EN 62321-5:2014 EN 62321-7-1:2015 & EN 62321-7-2:2017 EN 16711-1:2015 In House Method (MS-0045480)	0.1-10000 mg/kg
52	Textile, Textile Accessories and Chemicals	Short chain & Medium Chain Chloroparaffins (SCCP/MCCP) 1) SCCP- 51.5% 2) SCCP- 55.5% 3) SCCP- 63% 4) MCCP- 42% 5) MCCP- 57% 6) MCCP- 52%	ISO 22818:2021 In House Method (MS-0045491)	20 - 10000 mg/kg
53	Textile, Textile Accessories and Chemicals	Determination of pH of aqueous extract	ISO 3071:2020 AATCC TM 81:2022 GB/T/ 7573:2025 SASO 2144:2003	2-12
54	Textile, Textile Accessories and Chemicals	VOC and Solvents 1) Methyl-ethyl ketone 2) Ethylbenzene 3) (m+p) Xylene 4) Cyclohexanone 5) 1,2,3-trichloropropane	EPA 8260D:2018 EPA 8270 E:2018 ISO 11423-1:1997 ISO 11423-2:1997 EN 17131-1:2025 EN 17131-2:2025	1 - 10000 mg/kg


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		6) Acetophenone 7) Naphthalene 8) 2-phenyl-2-propanole 9) O-Cresol (2-Methylphenol) 10) m-Cresol (3-Methylphenol) 11) P-Cresol (4-Methylphenol) 12) Styrene 13) Benzene 14) Toluene 15) 1-methyl-2-pyrrolidone (NMP) 16) N,N-dimethylacetamide (DMAC) 17) N-N Dimethyl Fomamide 18) Formamide 19) o- Xylene 20) Phenol 21) Ethyl Acetate 22) 1-Butanol 23) N-Butylacetate 24) 1,3-Butadiene 25) Benzyl Alcohol 26) 2-Propanol 27) 1-Methoxy-2-Propanol 28) 4-Methyl-2-Pentanone 29) 2-Methoxy propnol 30) Acetone 31) Methanol 32) Diacetone	In House Method (MS-0045633)	
55	Textile, Textile Accessories and Chemicals	Flame Retardants (OPC & Others) 1) Bis-(2,3-dibromopropyl) phosphate (BIS) 2) Tris(2,3-Dibromopropyl)- Phosphate (TRIS) 3) Tris-azirdinyl phosphine oxide (TEPA) 4) Tris(2- Chloroethyl)Phosphate (TCEP) 5) Tris(1,3-dichloro-2-	ISO 17881-1:2016 ISO 17881-2:2016 EN 71-16:2025 In House Method (MS-0045497)	0.5-10000 mg/kg


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		propyl)phosphate(TDCPP)		
6)		Tri-o-cresyl phosphate(TOCP)		
7)		Tris(2-chloroisopropyl) phosphate (TCPP)		
8)		Trixylyl phosphate (TXP)		
9)		2,2-Bis(bromomethyl)-1,3- propanediol(BBMPD)		
10)		Bisphenol A		
11)		Tetrabromo-bisphenol A (TBBPA)		
12)		Hexabromocyclododecane (HBCDD) Polybrominated biphenyls (PBBs):		
13)		Monobromo biphenyls (MonoBB)		
14)		Dibromo biphenyls (DiBB)		
15)		Tribromo biphenyls (TriBB)		
16)		Tetrabromo biphenyls (TetraBB)		
17)		Pentabromo biphenyls (PentaBB)		
18)		Hexabromo biphenyls (HexaBB)		
19)		Heptabromo biphenyls (HeptaBB)		
20)		Octabromo biphenyls (OctaBB)		
21)		Nonabromo biphenyls (NonaBB)		
22)		Decabromo biphenyl (DecaBB)		
		Polybrominated diphenyl ethers (PBDEs):		
23)		Monobromo diphenyl ethers (MonoBDE)		
24)		Dibromo diphenyl ethers (DiBDE)		
25)		Tribromo diphenyl ethers (TriBDE)		

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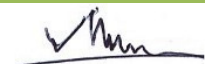
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		26) Tetrabromo diphenyl ethers (TetraBDE) 27) Pentabromo diphenyl ethers (PentaBDE) 28) Hexabromo diphenyl ethers (HexaBDE) 29) Heptabromo diphenyl ethers (HeptaBDE) 30) Octabromo diphenyl ethers (OctaBDE) 31) Nonabromo diphenyl ethers (NonaBDE) 32) Decabromo diphenyl ether (DecaBDE)		
56	Textile, Textile Accessories and Chemicals	Preserving Agent 1) n-Octylisothiazolinon (OIT) 2) 2-Thiocyanomethyl thiobenzothiazol 3) p-chlor-m-Kresol (CMK) 4) Orthophenylpheno(OPP) 5) Triclosan	In House Method (MS-0045627)	1-5000 mg/kg
57	Textile, Textile Accessories and Chemicals	AEEA	In House Method (MS-0045628)	2-5000 mg/Kg
58	Textile, Textile Accessories and Chemicals	Thiourea	In House Method (MS-0045629)	5-5000 mg/Kg
59	Textile, Textile Accessories and Chemicals	Anti- Microbials & Biocides 1) Permethrin 2) Orthophenylphenol (OPP) 3) Triclosan	In House Method (MS-0045630)	10-5000 mg/kg
60	Textile, Textile Accessories and Chemicals	UV absorbers 1) UV-320 2) UV-327 3) UV-328 4) UV-350	In House Method (MS-0045631)	5-5000 mg/kg
61	Textile, Textile Accessories and Chemicals	ADCA	In House Method (MS-0045509)	25-1000 mg/kg
62	Textile	Corrosion	EN ISO 22775:2004	1-5


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	Accessories		(Method 2) DIN EN ISO 10289:2001	
63	Textile, Textile Accessories and Chemicals	Cyclic Siloxanes 1) D4 (Octamethylcyclotetrasiloxane) 2) D5 (Decamethylcyclotetrasiloxane) 3) D6 (Dodecamethylcyclotetrasiloxane)	In House Method (MS-0045490)	50-5000 mg/kg
64	Textile, Textile Accessories and Chemicals	Perboric Acid, Sodium Salt	Acid digestion analyzed by ICP-MS In House Method (MS-0045511)	20-10000 mg/kg
65	Textile, Textile Accessories and Chemicals	Total Heavy metals 1) Arsenic 2) Antimony 3) Lead 4) Cadmium 5) Chromium 6) Mercury 7) Nickel 8) Copper 9) Cobalt 10) Tin 11) Barium 12) Zinc 13) Selenium 14) Manganese 15) Iron 16) Silver 17) Molybdenum 18) Potassium 19) Sodium 20) Titanium 21) Zirconium 22) Cr-VI 23) Aluminium 24) Phosphorus 25) Sulfur 26) Silicone 27) Vanadium	EN 16711-1:2015 In House Method (MS-0045511)	0.1 - 10000 mg/kg Or 0.001-99 %


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		28) Calcium 29) Magnesium 30) Bismuth 31) Tungsten 32) Gold		
66	Textile, Textile Accessories and Chemicals	Quinoline	DIN 54231:2022 ISO 13144:2025	15-2000 mg/kg
67	Textile, Textile Accessories and Chemicals	Dyestuff identification	EN ISO 16373-1:2015	Qualitative
68	Textile, Textile Accessories and Chemicals	Total Fluorine	EN 14582:2016 ASTM D7359:2023 EN 17813:2023	10-10000 mg/kg
69	Textile, Textile Accessories and Chemicals	Glycol 1) 2-ethoxyethanol 2) 2-ethoxyethyl acetate 3) 2-methoxyethanol 4) 2-methoxyethylacetate 5) 2-methoxypropylacetate 6) Bis(2-methoxyethyl)-ether 7) Ethylene glycol dimethylether 8) Triethylene glycol dimethyl ether	In House Method (MS-0054166)	1 - 10000 mg/kg
70	Textile, Textile Accessories and Chemicals	Nitrosamine 1) N-nitrosodiethylamine (NDEA) 2) N-nitrosodiethanolamine (NDELA) 3) N-nitrosomorpholine (NMOR) 4) N-nitrosodipropylamine (NDPA) 5) N-nitroso-N-methylaniline (NMPHA) 6) N-nitrosodibutylamine (NDBA) 7) N-nitroso-N-ethylaniline (NEPHA) 8) N-nitrosodimethylamine (NDMA)	In House Method Based on EN ISO 19577:2019 (MS-0045502)	0.1-10000 mg/kg


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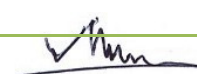
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		9) N-nitrosodibenzylamine (NDBzA) 10) N-Nitroso-piperidine (NPiP) 11) N-Nitrosodiisopropylamine (NDiPA) 12) N-Nitrosodiisobutylamine (NDiBA) 13) N-Nitrosodiisononylamine [N- Nitroso-N,N-di-(3,5,5- trimethylhexyl)amine] (NDiNA) 14) N-nitrosopyrrolidine (NPYR)		
71	Textile, Textile Accessories and Chemicals	Vinyl Chloride Monomer	EN ISO 6401:2022	2-10000 mg/kg
72	Textile, Textile Accessories and Chemicals	Glyoxal	In House Method Based on DIN 54603: 2008 (MS-0045485)	5 – 2000 mg/kg
73	Textile, Textile Accessories and Chemicals	Bisphenols 1) Bisphenol A 2) Bisphenol AF 3) Bisphenol B 4) Bisphenol F 5) Bisphenol S	In House Method as per AFIRM (MS-0045507)	0.1-10000 mg/kg
74	Textile, Textile Accessories and Chemicals	AOX	In House Method as per GOTS (MS-0054167)	0.1-100 mg/kg
75	Leather/ footwear /Footwear accessories	Determination of Polynuclear Aromatic Hydrocarbons (PAHs) 1) Napthalene 2) Acenaphthylene 3) Acenaphthene 4) Fluorene 5) Phenanthrene 6) Anthracene 7) Fluoranthene 8) Pyrene 9) 1-Methylpyrene 10) Cyclopenta (c,d) pyrene 11) Benzo(a)anthracene	AfPS GS 2019:01 PAK In House Method (MS-0045493)	0.1-1000 mg/kg


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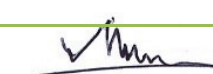
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		12) Chrysene 13) Benzo(b)Fluorene 14) Benzo(j)fluorene 15) Benzo(k)Fluorene 16) Benzo(e)pyrene 17) Benzo(a)pyrene 18) Indeno(1,2,3-cd)pyrene 19) Dibenzo(ah)anthracene 20) Benzo(ghi) perylene 21) Dibenzo(a 1) pyrene 22) Dibenzo(a e) pyrene 23) Dibenzo(a i) pyrene 24) Dibenzo(a h) pyrene		
76	Leather/ footwear /Footwear accessories	Azo Dyes (Banned Amines) 1) 4-Aminobiphenyl 2) Benzidine 3) 4-Chloro-O-Toluidine 4) 2-Naphthylamine 5) O-Aminoazotoluene 6) 5-Nitro-o-toluidine. 7) 4-Chloroaniline 8) 2,4'-Diaminoanisole. 9) 4,4'-Diaminodiphenyl methane. 10) 3,3'- Dichlorobenzidine. 11) 3,3'-Dimethoxybenzidine 12) 3,3'-Dimethylbenzidine 13) 3,3'-Dimethyl-4,4'- Diaminodiphenylmethane. 14) p-Cresidine 15) 4,4' Methylene –bis- 2 Chloroaniline) 16) 4,4'-Oxydianiline 17) 4,4'-Thiodianiline 18) o-Toluidine 19) 2,4 – Toluyldiamine. 20) 2, 4,5 Trimethylaniline. 21) o-Anisidine 22) 4-Aminoazobenzene. 23) 2, 4 Xylidine. 24) 2,6 Xylidine	BS EN ISO-17234-1:2024 BS EN ISO-17234-2:2011 In House Method (MS-0044613-Spec11)	5 - 1000 mg/kg


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		25) Aniline 26) 1,4 Phenylenediamine 27) 4-Chloro-o-toluidinium chloride 28) 2,4,5-Trimethylaniline hydrochloride 29) 2- Naphthylammoniumacetate 30) 2,4-Diaminoaniline sulphate		
77	Leather/ footwear /Footwear accessories	Chlorinated Phenols and Orthophenyl phenol 1) 2,4,6 – Trichlorophenol 2) 2,3,5 – Trichlorophenol 3) 2,3,6 – Trichlorophenol 4) 2,4,5 – Trichlorophenol 5) 3,4,5 – Trichlorophenol 6) 2,3,4 – Trichlorophenol 7) 2,3,5,6 – Tetrachlorophenol 8) 2,3,4,6 – Tetrachlorophenol 9) 2,3,4,5 – Tetrachlorophenol 10) Pentachlorophenol[PCP], 11) 2-CP-2 Chlorophenol 12) 3-CP-3 Chlorophenol 13) 4-CP- 4 Chlorophenol 14) 2,6-DCP 15) 2,5-DCP 16) 3,5-DCP 17) 2,4-DCP 18) 2,3-DCP 19) 3,4-DCP 20) 2,4,6-TBP 21) Ortho-Phenylphenol [OPP] 22) 2,6-DMP 23) Tetrachlorophenol(TeCP) 24) Trichlorophenol (TriCP)	ISO 17070:2015 In House Method (MS-0045486)	0.05-10000 mg/kg
78	Leather/ footwear /Footwear accessories	Dimethyl fumarate (DMFu)	EN ISO 16186:2021 In House Method (MS-0045494)	0.05-1000 mg/kg
79	Leather/	Migration of certain element	EN 71-3:2019 + A2:2024	0.05-1000 mg/kg


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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	footwear /Footwear accessories	1) Aluminium 2) Antimony 3) Arsenic 4) Barium 5) Boron 6) Cadmium 7) Chromium 8) Cobalt 9) Copper 10) Lead 11) Manganese 12) Mercury 13) Nickel 14) Selenium 15) Strontium 16) Tin 17) Zinc 18) Cr-VI	ASTM F963-23	
80	Leather/ footwear /Footwear accessories	Extractable Heavy metals 1) Antimony 2) Arsenic 3) Cadmium 4) Chromium 5) Cobalt 6) Copper 7) Lead 8) Manganese 9) Mercury 10) Nickel 11) Selenium 12) Barium 13) Zinc 14) Manganese 15) Tin	ISO 17072-1:2019 ISO 105-E05:2010	0.01-1000 mg/kg
81	Leather/ footwear /Footwear accessories	Alkylphenol (AP) & Alkylphenol Ethoxylates (APEO) 1) 4-n-Nonylphenol 2) NP Technical 3) 4-n-OP 4) 4-tert-OP 5) NPEO	ISO 18218-1 :2023 ISO 18218-2 :2019 In House Method (MS-0045487, MS-0045488, MS-0041974-Spec16)	2-10000 mg/kg


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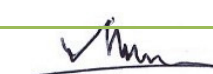
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		6) OPEO 7) 4-Pentylphenol (PeP) 8) Heptylphenol (HpP) 9) 4-tert-butylphenol		
82	Leather/ footwear/ Footwear accessories	Chromium (VI)	EN ISO 17075-1:2017 EN ISO 17075-2:2017	1- 500 mg/kg
83	Leather/ footwear /Footwear accessories	Per- and polyfluoroalkyl substances (PFAS): 1) PFOA and Salts 2) PFNA and Salts 3) PFBS 4) PFOS and Salts 5) PFHxS and Salts 6) PFHxA and Salts 7) PFPeA 8) PFHpA 9) PFDA and Salts 10) PFUnA 11) PFDoA 12) PFTrA(PFTrDA) 13) PFTeA(PFTeDA) 14) PFHpS 15) PFDS 16) PF-3,7-DMOA 17) HPFHpA(7HPFHpA) 18) 4HPFUnA 19) 1H, 1H, 2H, 2H-PFOS 20) POSF 21) PFOSA(FOSA) 22) N-Me-FOSA 23) N-Et-FOSA 24) N-Me-FOSE 25) N-Et-FOSE 26) 4:2 FTOH 27) 6:2 FTOH 28) 8:2 FTOH 29) 10:2 FTOH 30) 12:2 FTOH 31) 6:2 FTA	EN 17681-1:2025 EN 17681-2:2022 EN ISO 23702-1:2023 In House Method (MS-0045492)	0.1-100 µg/m ² And 0.01-10000 mg/kg


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		32) 8:2 FTA 33) 10:2 FTA 34) NaPFN/APFN 35) PFBA 36) 6:2 FTMA 37) 8:2 FTMA 38) 10:2 FTMA 39) 4:2 FTS 40) 6:2 FTS 41) 8:2 FTS 42) 10:2 FTS 43) 10:2 FTI 44) 12:2 FTI 45) F-PFO(PFOA-F) 46) Me-PFOA 47) Et-PFOA 48) PFOSF 49) HPFO-DA and Salts 50) H2PFDA(8:2-FTCA) 51) PFHxSA 52) N-Me-FhxSA		
84	Leather/ footwear /Footwear accessories	Determination of pH of aqueous extract	ISO 4045:2018	2 - 12
85	Leather/ footwear /Footwear accessories	Determination of formaldehyde content	DIN EN ISO 17226-1:2021 DIN EN ISO 17226-2:2019 GB/T 19941.1:2019 GB/T 19941.2:2019 In House Method (MS-0054165)	5 - 2000 mg/kg
86	Leather/ footwear /Footwear accessories	Allergenic and Carcinogenic dyes 1) Disperse Blue 102 2) Disperse Blue 106 3) Disperse Blue 124 4) Disperse Blue 102 5) Disperse Blue 1 6) Disperse Blue 26 7) Disperse Blue 7 8) Disperse Orange 1	DIN 54231:2022 ISO 16373-2:2014 EN ISO 16373-3:2014 In House Method (MS-0045483)	15-2000 mg/kg


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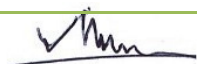
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		9) Disperse Blue 35 10) Disperse Orange 3 11) Disperse Orange 11 12) Disperse Orange 149 13) Disperse Red 1 14) Disperse Red 11 15) Disperse Red 17 16) Disperse Yellow 1 17) Disperse Yellow 3 18) Disperse Yellow 9 19) Disperse Yellow 23 20) Disperse Yellow 49 21) Disperse Brown 1 22) Disperse Yellow 7 23) Acid Red 26 24) Basic Violet 14 HCL 25) Direct Red 28 26) Basic Red 9 27) Direct Blue 2b/6 28) Direct Brown 95 29) Basic Violet 1 30) Disperse Yellow 39 31) Disperse Orange 37/76 32) Basic violet 3 33) Navy Blue 34) Acid red 14 35) Naphthol AS 36) Basic Red 46 37) Solvent Yellow 1 38) Solvent Yellow 2 39) Direct Black 38 40) Direct Red 28 41) Basic Blue 26 42) Basic Green 4 43) Disperse Red-151 44) Disperse Yellow 56 45) Solvent Yellow 3 46) Acid Red 114 47) Acid Violet 49 48) Direct Blue 15 49) Direct Blue 218		


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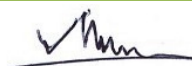
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		50) α,α -Bis [4-(dimethylamino) phenyl]-4-(methylamino)- benzenemethanol 51) Solvent Yellow 14 52) Michler's base 53) Michler's ketone 54) Quinoline 55) Pigment yellow 34 56) Pigment red 104 57) Acid orange 24 58) Disperse orange 61 59) 4,4-Methylene bis 60) Solvent blue 4 61) Basic Green 1 62) Solvent yellow 34 63) Basic violet 10 64) Direct blue 53 65) Acid black 194 66) Acid red 73 67) Acid blue 113		
87	Leather/ footwear /Footwear accessories	Determination of Chlorinated Organic Carrier (COCs) 1) 2-Chlorotoluene 2) 3-Chlorotoluene 3) 4-Chlorotoluene 4) 1,2-Dichlorobenzene 5) 1,3-Dichlorobenzene 6) 1,4-Dichlorobenzene 7) 2,3-Dichlorotoluene 8) 2,4-Dichlorotoluene 9) 2,5-Dichlorotoluene 10) 2,6-Dichlorotoluene 11) 3,4-Dichlorotoluene 12) 1,2,3-Trichlorobenzene 13) 1,2,4-Trichlorobenzene 14) 1,3,5-Trichlorobenzene 15) 2,4,5-Trichlorotoluene 16) 2,3,6-Trichlorotoluene	EN 17137:2024 In House Method (MS-0045484)	0.1-1000 mg/kg


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		17) 1,2,3,4-Tetrachlorobenzene 18) 1,2,3,5-Tetrachlorobenzene 19) 1,2,4,5-Tetrachlorobenzene 20) Pentachlorobenzene 21) 2,3,4,5,6- Pentachlorotoluene 22) Hexachlorobenzene 23) a,a,a,4-Tetrachlorotoluene 24) Chlorobenzene 25) Benzyl chloride 26) α, α, α Trichlorotoluene 27) Benzyl chloride 28) α, α, α Trichlorotoluene 29) α 2,4 Trichlorotoluene 30) α 2,6 Trichlorotoluene 31) α 3,4 Trichlorotoluene 32) 2,3,4,5 Tetrachlorotoluene 33) 2,3,5,6 Tetrachlorotoluene 34) 2,3,4,6 Tetrachlorotoluene 35) 1,3,5 Trichloro-2- methylbenzene		
88	Leather/ footwear /Footwear accessories	Dimethyl formamide (DMFa)	EN ISO 16189:2021 In House Method (MS-0039999-Spec10, MS-0045495)	2.5-2000 mg/kg
89	Leather/ footwear /Footwear accessories	Organotin 1) Dimethyltin chloride (DMeTCL) 2) Trimethyltin chloride (TMeTCL) 3) Methyltin trichloride (MeTCL) 4) Dipropyltin chloride (DProTCL) 5) Monobutyltin chloride (MBTCL) 6) Dibutyltin chloride (DBTCL) 7) Tri-n-Propyl tin (TnPT) 8) Tributyltin chloride (TBTC)	ISO 16179:2025 In House Method (MS-0045489)	0.01-1000 mg/kg


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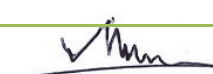
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		9) Monoctyltin (MOT) 10) Tetrabutyltin (TeBT) 11) Diphenyltin dichloride (DPhTCL) 12) Dioctyltin dichloride (DOT) 13) Triphenyltin chloride (TriphTCL) 14) Tricyclohexyltin chloride (TricycloTCL) 15) Trioctyltin (TOT) 16) N-Heptyltin-Trichloride 17) Tetra-n-Octyltin (TEOT)		
90	Leather/ footwear /Footwear accessories	Phthalates 1) DBP: Dibutyl Phthalate 2) DIBP: Di-Isobutyl Phthalate 3) BBP: Benzylbutyl Phthalate 4) DEHP: Bis(2-Ethylhexyl) Phthalate 5) DNOP: Di-n-octyl phthalate 6) DINP: Di-isononyl Phthalate 7) DIDP: Di-isodecyl Phthalate 8) DMEP: Di Methoxy ethyl Phthalate 9) DIPP: Di-iso pentyl Phthalate 10) DIHP: 1,2 Dicarboxylic Acid 11) DHP: Dihexyl Phthalate 12) DEP: Diethyl Phthalate 13) DCHP: Di-cyclohexyl Phthalate 14) DPP: Dipentyl Phthalate 15) DnHP: Di-n-hexyl Phthalate 16) PiPP-N-pentyl-isopentylphthalate 17) DNP: Dinonyl Phthalate 18) DIOP: Di-iso-octyl Phthalate 19) DMP: Dimethyl Phthalate 20) NPIP: Pentyl-iso-pentyl phthalate 21) DPHP: Bis-(2-ethylhexyl) phthalate	CPSC-CH-C1001-09.4:2018 EN ISO 14389:2022 GB/T 20388:2016 EN 14372:2004 In House Method (MS-0045464-Spec03) 16 CFR Part 1307:2026	10 - 20000 mg/kg


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		22) DNPP: Di-n-pentyl phthalate 23) DMPP Bis(4-methylpentyl) Phthalate 24) DUDP/DUNP: Di-n-undecyl Phthalate/ Bis-n-undecyl ester 25) DiHexP(1,2-benzene dicarboxylic acid, dihexyl ester) 26) DINCH(1,2- Cyclohexanedicarboxylic acid, 1,2-diisononyl ester) 27) DAP(Diallyl phthalate) 28) EPEG (Ethyl Phthalyl Ethyl Glycolate) 29) BPBG (Butyl Phthalyl Butyl Glycolate) 30) DHNuP(Dialkyl Phthalate) 31) TBPH(Bis(2-ethylhexyl) tetrabromophthalate) 32) Di-n-propyl phthalate (DPRP)		
91	Leather/ footwear /Footwear accessories	Short chain & Medium Chain Chloroparaffins (SCCP/MCCP) 1) SCCP- 51.5% 2) SCCP- 55.5% 3) SCCP- 63% 4) MCCP- 42% 5) MCCP- 57% 6) MCCP- 52%	EN ISO 18219-1:2021 EN ISO 18219-2:2021 In House Method (MS-0045491)	20-10000 mg/kg
92	Leather/ footwear /Footwear accessories	Bisphenols 1) Bisphenol A 2) Bisphenol AF 3) Bisphenol B 4) Bisphenol F 5) Bisphenol S	In House Method Based on ISO 21135:2024 EN ISO 11936:2023 (MS-0045507)	0.1-10000 mg/kg
93	Leather/ footwear /Footwear accessories	Total Heavy metal in Leather 1) Aluminium 2) Antimony 3) Arsenic	EN ISO 17072-2:2022	0.05-10000 mg/kg


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		4) Barium 5) Iron 6) Cadmium 7) Chromium 8) Cobalt 9) Copper 10) Lead 11) Manganese 12) Mercury 13) Nickel 14) Selenium 15) Calcium 16) Tin 17) Zinc 18) Molybdenum 19) Potassium 20) Sodium 21) Titanium 22) Zirconium 23) Silver 24) Phosphorus 25) Sulfur 26) Silicone 27) Vanadium 28) Magnesium 29) Bismuth 30) Tungsten 31) Gold		
94	Leather/ footwear/ Footwear accessories	Moisture (%) content	EN ISO 4684:2005	0.1-90 %
95	Leather/ footwear/ Footwear accessories	Fat (%) content	ISO 4048:2018	0.1-90 %
96	Leather/ footwear /Footwear accessories	Preserving Agent 1) n-Octylisothiazolinon (OIT) 2) 2 Thiocyanomethyl thiobenzothiazol 3) p-chlor-m-Kresol (CMK)	In House Method (MS-0045627)	1-5000 mg/kg


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		4) Orthophenylphenol (OPP) 5) Triclosan		
97	Leather/ footwear /Footwear accessories	Anti- Microbials & Biocides 1) Permethrin 2) Orthophenylphenol(OPP) 3) Triclosan	In House Method (MS-0045630)	10-5000 mg/kg
98	Leather/ footwear /Footwear accessories	Flame Retardants (OPC & Others) 1) Bis-(2,3-dibromopropyl) phosphate (BIS) 2) Tris(2,3-Dibromopropyl)- Phosphate (TRIS) 3) Tris-azirdinyl phosphine oxide (TEPA) 4) Tris(2- Chloroethyl)Phosphate (TCEP) 5) Tris(1,3-dichloro-2- propyl)phosphate(TDCPP) 6) Tri-o-cresyl phosphate(TOCP) 7) Tris(2-chloroisopropyl) phosphate (TCPP) 8) Trixylyl phosphate (TXP) 9) 2,2-Bis(bromomethyl)-1,3- prpanediol(BBMPD) 10) Bisphenol A 11) Tetrabromo-bisphenol A (TBBPA) 12) Hexabromocyclododecane (HBCDD) Polybrominated biphenyls (PBBs): 13) Monobromo biphenyls (MonoBB) 14) Dibromo biphenyls (DiBB) 15) Tribromo biphenyls (TriBB) 16) Tetrabromo biphenyls (TetraBB) 17) Pentabromo biphenyls (PentaBB)	ISO 17881-1:2016 ISO 17881-2:2016 EN 71-16:2025 In House Method (MS-0045497)	0.5-10000 mg/kg


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		18) Hexabromo biphenyls (HexaBB) 19) Heptabromo biphenyls (HeptaBB) 20) Octabromo biphenyls (OctaBB) 21) Nonabromo biphenyls (NonaBB) 22) Decabromo biphenyl (DecaBB) Polybrominated diphenyl ethers (PBDEs): 23) Monobromo diphenyl ethers (MonoBDE) 24) Dibromo diphenyl ethers (DiBDE) 25) Tribromo diphenyl ethers (TriBDE) 26) Tetrabromo diphenyl ethers (TetraBDE) 27) Pentabromo diphenyl ethers (PentaBDE) 28) Hexabromo diphenyl ethers (HexaBDE) 29) Heptabromo diphenyl ethers (HeptaBDE) 30) Octabromo diphenyl ethers (OctaBDE) 31) Nonabromo diphenyl ethers (NonaBDE) 32) Decabromo diphenyl ether (DecaBDE)		
99	Leather/ footwear/ Footwear accessories	Ash Content	In House Method (MS-0054163)	0.1-90 %
100	Water (Drinking water)	pH value	US EPA 150.1:1982 IS: 3025 Part 11: 2022	2 - 12
101	Water (Drinking water)	Hardness as CaCO ₃	In House Method based on IS: 3025 (Part 21):2009 MS-0054152	10-900 mg/L


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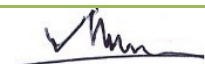
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102	Water (Drinking water)	TDS	US EPA 160.1:1999	50-2000 mg/L
103	Water (Drinking water)	Alkalinity, as CaCO ₃	IS 3025: Part 23:2023	10-1000 mg/L
104	Water (Drinking water)	Nitrate - Nitrogen	IS 3025 Part 34/Sec 3: 2021 (Nitrite/Nitrate nitrogen)	0.5-500 mg/L
105	Water (Drinking water)	Heavy Metal 1) Arsenic (As) 2) Lead(Pb) 3) Cadmium(Cd) 4) Sodium(Na) 5) Calcium(Ca) 6) Iron(Fe) 7) Magnesium(Mg) 8) Zinc 9) Tin 10) Silver 11) Selenium 12) Potassium 13) Copper 14) Chromium(Total) 15) Boron 16) Barium 17) Aluminium	IS 3025: Part 2:2019 EN ISO 11885:2009	0.01-1000 mg/L
106	Water (Drinking water)	Anionic Surfactants as MBAS	In House Method based on EPA 5540 C (MS-0045482)	0.2-100 mg/L
107	Water	Water for analytical laboratory use	EN ISO 3696:1995	As per standard Specification
108	Wastewater: Conventional Parameters	pH value	IS:3025 Part 11: 2022 US EPA 150.1:1982	2 - 12
109	Wastewater: Conventional Parameters	Temperature	US EPA 170.1: 1974	1-100 °C
110	Wastewater: Conventional Parameters	Colour (436nm; 525nm; 620nm)	ISO 7887-B: 2011	0.1 m-1 to 100 m-1
111	Wastewater: Conventional	Ammonium-Nitrogen	In House Method based on USEPA 350.1:1993	0.2-50 mg/L


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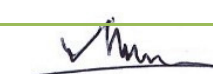
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	Parameters		(MS-0045512)	
112	Wastewater: Conventional Parameters	AOX	In House Method based on EN ISO 9562:2004 (MS-0054151)	0.1-10 mg/L
113	Wastewater: Conventional Parameters	Biochemical Oxygen Demand 5-days concentration (BOD5)	USEPA 405.1: 1974	2 - 500 mg/L
114	Wastewater: Conventional Parameters	Chemical Oxygen Demand (COD)	USEPA 410.4: 1993	10 - 3000 mg/L
115	Wastewater: Conventional Parameters	Dissolved Oxygen (DO)	USEPA 360.1:1971	0.05 - 20.0 mg/L
116	Wastewater: Conventional Parameters	Oil & Grease	In House Method based on USEPA 1664 B: 2010, HJ 637 (total oil and grease) (MS-0054157)	0.5-1000 mg/L
117	Wastewater: Conventional Parameters	Total Phenols / Phenol Index	APHA 5530C: 24th edition 2022	0.001-100 mg/L
118	Wastewater: Conventional Parameters	Total Chlorine	In House Method based on EPA 330.5:1978 (MS-0054156)	0.2- 20 mg/L
119	Wastewater: Conventional Parameters	Total Dissolved Solids (TDS)	USEPA 160.1: 1999	10-20000 mg/L
120	Wastewater: Conventional Parameters	Total Nitrogen	In House Method based on APHA 4500 N-C: 24th Edition 2022 (MS-0054150)	1–100 mg/L
121	Wastewater: Conventional Parameters	Total Phosphorus	In House Method based on GB/T 11893:1989 (MS-0045514)	0.05-20 mg/L
122	Wastewater: Conventional Parameters	Total Suspended Solids (TSS)	USEPA 160.2: 1971	3-10000 mg/L
123	Wastewater: Conventional Parameters	Hardness as CaCO ₃	In House Method based on IS: 3025 Part 21: 2009 (MS-0054152)	10-900 mg/L


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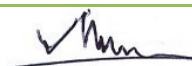
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124	Wastewater: Conventional Parameters	Total Alkalinity as CaCO ₃	IS :3025 (Part 23): 2023	10-1000 mg/L
125	Wastewater: Conventional Parameters	Nitrate–Nitrogen	IS 3025 Part 34/Sec 3: 2021 (Nitrite/Nitrate nitrogen)	0.5-500 mg/L
126	Wastewater: Conventional Parameters	Hexavalent Chromium (Cr-VI)	ISO 18724:2025	0.1 - 10 mg/L
127	Wastewater: Conventional Parameters (Anions)	Chloride	IS 3025: Part 32:2025	0.15-1000 mg/L
128	Wastewater: Conventional Parameters (Anions)	Cyanide (Total)	In House Method based on APHA 4500 CN: 23rd Edition: 2017 (MS-0054148)	0.03-10 mg/L
129	Wastewater: Conventional Parameters (Anions)	Sulfate	In House Method based on IS 3025 Part 24/ Sec 1:2022 (MS-0054153)	5-1000 mg/L
130	Wastewater: Conventional Parameters (Anions)	Sulfide	In House Method based on APHA 4500-s2-D (23 rd edition):2017 (MS-0054154)	0.01-20 mg/L
131	Wastewater: Conventional Parameters (Anions)	Sulfite	In House Method based on EN ISO 10304-3:1997 (MS-0054155)	0.1-20 mg/L
132	Wastewater: MRSL	Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): 1) Nonylphenol ethoxylates (NPEO) 2) Nonylphenol (NP), mixed isomers 3) Octylphenol ethoxylates (OPEO) 4) Octylphenol (OP), mixed isomers	In House Method based on EN ISO 18857-2:2011, ISO 18254-1:2016, ISO 18218-1:2023 (MS-0045536)	1 -10000 µg/L


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133	Wastewater: MRSL	Anti- Microbials & Biocides: 1) O-Phenylphenol (+salts) 2) Triclosan 3) Permethrin 4) DMFu	In House Method based on USEPA 8270 E:2018 (Solvent extraction, derivatization with KOH, acetic anhydride followed by GC-MS), ISO 17070:2015 (MS-0054168)	10-10000 µg/L
134	Wastewater: MRSL	Chlorinated Paraffins: 1) Medium-chain Chlorinated paraffins (MCCPs) (C14-C17) 2) Short-chain Chlorinated paraffin (C10 – C13)	In House Method Based on EPA 3510C, EN ISO 18219-1:2021, EN ISO 18219-2:2021 & ISO 12010:2019 (MS-0045531)	1-10000 µg/L
135	Wastewater: MRSL	Chlorobenzenes and Chlorotoluene's (COCs) 1) Monochlorobenzene 2) 1,2-Dichlorobenzene 3) 1,3-Dichlorobenzene 4) 1,4-Dichlorobenzene 5) 1,2,3-Trichlorobenzene 6) 1,2,4-Trichlorobenzene 7) 1,3,5-Trichlorobenzene 8) 1,2,3,4- Tetrachlorobenzene 9) 1,2,3,5- Tetrachlorobenzene 10) 1,2,4,5- Tetrachlorobenzene 11) Pentachlorobenzene 12) Hexachlorobenzene 13) 2-Chlorotoluene 14) 3-Chlorotoluene 15) 4-Chlorotoluene 16) 2,3-dichlorotoluene 17) 2,4-dichlorotoluene 18) 2,5-dichlorotoluene 19) 2,6-dichlorotoluene 20) 3,4-dichlorotoluene 21) 3,5-dichlorotoluene	In House Method based on USEPA 8270D & E:2018 (MS-0045535)	0.15-10000 µg/L


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		22) 2,3,4-Trichlorotoluene 23) 2,3,6-Trichlorotoluene 24) 2,3,5-Trichlorotoluene 25) 2,4,6-Trichlorotoluene 26) 3,4,5-Trichlorotoluene 27) 2,3,4,5-Tetrachlorotoluene 28) 2,3,5,6-Tetrachlorotoluene 29) 2,3,4,6-Tetrachlorotoluene 30) Pentachlorotoluene		
136	Wastewater: MRSL	Chlorophenols 1) 2-Chlorophenol 2) 3-chlorophenol 3) 4-chlorophenol 4) 2,3-Dichlorophenol 5) 2,4-Dichlorophenol 6) 2,5-Dichlorophenol 7) 2,6-Dichlorophenol 8) 3,4-Dichlorophenol 9) 3,5- Dichlorophenol 10) 2,3,4-Trichlorophenol 11) 2,3,5-Trichlorophenol 12) 2,3,6-Trichlorophenol 13) 2,4,5-Trichlorophenol 14) 2,4,6-Trichlorophenol 15) 3,4,5-Trichlorophenol 16) 2,3,4,5-Tetrachlorophenol 17) 2,3,4,6-Tetrachlorophenol 18) 2,3,5,6-Tetrachlorophenol Pentachlorophenol	In House Method based on USEPA 8270 E:2018 and DIN EN 12673:1999 (MS-0045533)	0.5 -10000 µg/L
137	Wastewater: MRSL	Dyes – Carcinogenic or Equivalent Concern: 1) Basic Violet 3 with > 0.1% of Michler's Ketone 2) Acid Red 26 3) Acid Violet 49 4) Basic Blue 26 (with Michler's Ketone > 0.1%) 5) Basic Green 4 (Malachite Green Chloride) 6) Basic Green 4 (Malachite Green Oxalate)	In House Method based on DIN 54231:2022 (MS-0045537)	20-10000 µg/L


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		7) Basic Green 4 (Malachite Green) 8) Basic Green 4 leuco base 9) Basic Red 9 10) Basic Violet 14 11) Direct Black 38 12) Direct Blue 6 13) Direct Red 28 14) Disperse Blue 1 15) Disperse Blue 3 16) Disperse Orange 11		
138	Wastewater: MRSL	Dyes – Disperse (Allergenic): 1) Disperse Blue 102 2) Disperse Blue 106 3) Disperse Blue 124 4) Disperse Blue 26 5) Disperse Blue 35 6) Disperse Blue 7 7) Disperse Brown 1 8) Disperse Orange 1 9) Disperse Orange 3 10) Disperse Orange 37/59/76 11) Disperse Red 1 12) Disperse Red 11 13) Disperse Red 17 14) Disperse Yellow 1 15) Disperse Yellow 3 16) Disperse Yellow 39 17) Disperse Yellow 49 18) Disperse Yellow 9	In House Method based on DIN 54231:2022 (MS-0045537)	20-10000 µg/L
139	Wastewater: MRSL	Flame Retardants: 1) 2,2-bis(bromomethyl)-1,3-propanediol (BBMP) 2) Bis(2,3-dibromopropyl)phosphate (BDBPP) 3) Boric acid 4) Decabromobiphenyl (DecaBB) 5) Decabromodiphenyl ether (DecaBDE)	In House Method based on USEPA 8270E:2018, EN ISO 22032:2009, USEPA 527:2005 and USEPA 8321B:2007 (MS-0045539, MS-0045540, MS-0045541, MS-0045542, MS-0045610)	5-10000 µg/L


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		6) Diboron trioxide		
		7) Dibromobiphenyls (DiBB)		
		8) Dibromopropylether		
		9) Disodium octaborate		
		10) Disodium tetraborate anhydrous		
		11) Heptabromodiphenylether(H eptaBDE)		
		12) Hexabromocyclodecane(HB CDD)		
		13) Hexabromodiphenylether(H exaBDE)		
		14) Monobromobiphenyls(Mono BB)		
		15) Monobromodiphenylethers(MonoBDEs)		
		16) Nonabromobiphenyls(Nona BB)		
		17) Nonabromodiphenylether(N onaBDE)		
		18) Octabromobiphenyls (OctaBB)		
		19) Octabromodiphenylether(Oc taBDE)		
		20) Pentabromodiphenylether(P entaBDE)		
		21) Polybromobiphenyls (PBB)		
		22) Tetraboron disodium heptaoxide, hydrate		
		23) TetrabromobisphenolA(TBB PA)		
		24) Tetrabromodiphenylether(Te traBDE)		
		25) Tri-o-cresyl phosphate		
		26) Tribromodiphenylethers(TriB DEs)		
		27) Trimethyl phosphate		
		28) Tris(1,3- dichloroisopropyl)phosphate (TDCP)		


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		29) Tris(1-aziridinyl phosphineoxide)(TEPA) 30) Tris(2,3,-dibromopropyl) phosphate (TRIS) 31) Tris-(2-chloro-1-methylethyl) phosphate (TCPP) 32) Tris(2-chloroethyl) phosphate (TCEP) 33) Trixylyl phosphate (TXP)		
140	Wastewater: MRSL	Glycols / Glycol Ethers: 1) 2-ethoxyethanol 2) 2-ethoxyethyl acetate 3) 2-methoxyethanol 4) 2-methoxyethylacetate 5) 2-methoxypropylacetate 6) Bis(2-methoxyethyl)-ether 7) Ethylene glycol dimethylether 8) Triethylene glycol dimethyl ether 9) 2-methoxypropanol	In House Method based on USEPA 8270 E:2018 (MS-0045544)	20-10000 µg/L
141	Wastewater: MRSL	Halogenated Solvents: 1) 1,2-dichloroethane 2) Methylene chloride 3) Tetrachloroethylene 4) Trichloroethylene	In House Method based on USEPA 8260D:2018 (MS-0045545)	1-10000 µg/L
142	Wastewater: MRSL	Organotin Compounds: 1) Dipropyltin compounds (DPT) 2) Mono-, di- and tri-butyltin Derivatives 3) Mono-, di- and trimethyltin derivatives 4) Mono-, di- and tri- octyltin Derivatives 5) Mono-, di- and tri-phenyltin derivatives 6) Tetraethyltin compounds (TeBT) 7) Tripropyltin Compounds (TPT)	In House Method based on ISO 17353:2004 (MS-0045534)	0.01-10000 µg/L


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		8) Tetraoctyltin compounds (TeOT) 9) Tricyclohexyltin (TCyHT) 10) Tetraethyltin Compounds (TeET) 11) Dibutyltin (DBT)		
143	Wastewater: MRSL	Other/Miscellaneous Chemicals: 1) Aniline 2) AEEA[2-(2 aminoethylamino) ethanol] 3) Bisphenol A 4) Borate, zinc salt 5) D4(Octamethylcyclotetrasiloxane) 6) D5(Decamethylcyclopentasiloxane) 7) D6(Dodecamethylcyclohexasiloxane) 8) Perboric acid, sodium salt 9) Quinoline 10) Thiourea	In House Method based on EN ISO 14362-1:2017 USEPA 8270E:2018 (reference to azo dyes, do not need the reducing agent dithionate) USEPA 3510C: 1996 Liquid extraction LC-MSMS ISO 12010:2019 DIN 54231: 2022 Determined as total boron and total zinc via ICP (MS-0054147 MS-0045504)	5-10000 µg/L
144	Wastewater: MRSL	Perfluorinated and Polyfluorinated Chemicals (PFCs): 1) Perfluorooctane sulfonate (PFOS) and related Substances 2) Perfluorooctanoic acid (PFOA) and related substances 3) 4:2 Fluorotelomer alcohols (4:2 FTOH) 4) 6:2 Fluorotelomer alcohols (6:2 FTOH) 5) 8:2 Fluorotelomer alcohols (8:2 FTOH) 6) 10:2 Fluorotelomer alcohols (10:2 FTOH) 7) Perfluorobutane sulfonic acid (PFBS)	In House Method based on EPA 537:2020, ISO 25101:2009, USEPA 8270E:2018, EN 17681-1:2025 (MS-0045538)	0.01-10000 µg/L


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		8) Perfluorobutanoic acid (PFBA) 9) Perfluorodecane sulfonic acid (PFDS) 10) Perfluorodecanoic acid (PFDA) 11) Perfluorohexane sulfonic acid (PFHxS) 12) Perfluorohexanoic acid (PFHxA) and related substances		
145	Wastewater: MRSL	Phthalates – including all other esters of ortho-phthalic acid: 1) 1,2-Benzenedicarboxylic acid, di-C6-8-branched and linear alkyl esters, C7-rich (DIHP) 2) 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) 3) 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 4) 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear 5) Bis(2-methoxyethyl) phthalate (DMEP) 6) Butyl benzyl phthalate (BBP) 7) Di(ethylhexyl) phthalate (DEHP) 8) Di-cyclohexyl phthalate (DCHP) 9) Di-iso-butyl phthalate (DIBP) 10) Di-iso-decyl phthalate (DIDP) 11) Di-iso-octyl phthalate (DIOP) 12) Di-isononyl phthalate (DINP) 13) Di-n-hexyl phthalate (DnHP)	In House Method based on US EPA 8270E:2018, EN ISO 18856:2005 (MS-0045532)	1-10000 µg/L


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		14) Di-n-octyl phthalate (DNOP) 15) Di-n-pentylphthalates (DnPP) 16) Di-n-propyl phthalate (DPRP) 17) Dibutyl phthalate (DBP) 18) Diethyl phthalate (DEP) 19) Diisohexyl phthalate 20) Diisopentyl phthalates (DIPP) 21) Dinonyl phthalate (DNP) 22) n-Pentyl-isopentyl phthalate		
146	Wastewater: MRSL	Polycyclic Aromatic Hydrocarbons (PAHs): 1) Acenaphthene 2) Acenaphthylene 3) Anthracene 4) Benzo[a]anthracene 5) Benzo[a]pyrene (BaP) 6) Benzo[b]fluoranthene 7) Benzo[e]pyrene 8) Benzo[ghi]perylene 9) Benzo[j]fluoranthene 10) Benzo[k]fluoranthene 11) Chrysene 12) Dibenzo[a,h]anthracene 13) Fluoranthene 14) Fluorene 15) Indeno[1,2,3-cd]pyrene 16) Naphthalene 17) Phenanthrene 18) Pyrene	In House Method based on US EPA 8270E:2018 and DIN 38407-39:2011 (MS-0045517)	0.1 -10000 µg/L
147	Wastewater: MRSL	Restricted Aromatic Amines (Cleavable from Azo- colourants) 1) 2,4,5-Trimethylaniline 2) 2,4,5-trimethylaniline hydrochloride 3) 2,4-Diaminoanisole 4) 2,4-Toluenediamine 5) 2,4-Xylidine	In House Method based on US EPA 8270E:2018, EN ISO 14362-1: 2017, EN ISO 14362-3:2017 (MS-0045516)	0.1-10000 µg/L


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		6) 2,6-Xylidine 7) 2-Naphthylamine 8) 2-Naphthylammoniumacetate 9) 3,3'-Dichlorobenzidine 10) 3,3-Dimethoxylbenzidine 11) 3,3-Dimethylbenzidine 12) 4,4'-Methylenebis-(2-chloroaniline) 13) 4,4'-Methylenedi-o-toluidine 14) 4,4'-Oxydianiline 15) 4,4'-Thiodianiline 16) 4,4-Methylenedianiline 17) 4-Aminoazobenzene 18) 4-Aminodiphenyl 19) 4-Chloro-o-toluidine 20) 4-Chloroaniline 21) 4-chloro-o-toluidinium chloride 22) 4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate 23) 5-nitro-o-toluidine 24) 6-methoxy-m-toluidine 25) Benzidine 26) o-Aminoazotoluene 27) o-Anisidine 28) o-Toluidine		
148	Wastewater: MRSL	UV Absorbers: 1) 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) 2) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 3) 2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320) 4) 2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl)phenol (UV-327)	In House Method based on USEPA 8270E:2018, USEPA 527:2005, USEPA 8321 B:2007 (MS-0045504)	10-10000 µg/L
149	Wastewater: MRSL	VOC (Organic Solvents) 1) Benzene	In House Method based on ISO 11423-1:1997,	1 - 10000 µg/L


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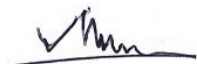
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		2) N,N-Dimethylacetamide (DMAC) 3) N,N-dimethylformamide (DMFa) 4) N-Ethyl-2 pyrrolidone (NEP) 5) N-Methyl-2-Pyrrolidone (NMP) 6) Sum of o,m, p- cresol 7) Sum of o,m, p-xylene 8) Toluene	US EPA 8270 E:2018, BS EN 12673:1999 (MS-0045611)	
150	Wastewater: MRSL	Heavy Metals: 1) Antimony 2) Arsenic 3) Barium 4) Cadmium 5) Chromium (VI) 6) Chromium (Total) 7) Cobalt 8) Copper 9) Lead 10) Mercury 11) Nickel 12) Selenium 13) Silver 14) Tin 15) Zinc	In House Method based on ISO 17294-1:2024, ISO 17294-2:2023, ISO 17075-1&2:2017 (MS-0045514, MS-0045515)	0.001-10000 mg/L
151	Sludge: Anions	Anions: Cyanide	In House Method based on USEPA 9013 A:2014, EPA 9014 :2014, EPA 9213:1996 (MS-0054149)	20-1000 mg/kg
152	Sludge: Conventional Parameters	pH value	EPA 9045D:2004	2-12
153	Sludge: Conventional Parameters	% Solids	USEPA 160.3:1971	1-95 %
154	Sludge: Conventional Parameters	Paint Filter Test	In House Method based on USEPA 9095B:2004 (MS-0045513)	Qualitative


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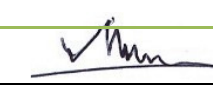
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155	Sludge: Leachate	Heavy Metals (Leachate): 1) Antimony 2) Arsenic 3) Barium 4) Cadmium 5) Chromium (VI) 6) Chromium (Total) 7) Cobalt 8) Copper 9) Lead 10) Mercury 11) Nickel 12) Selenium 13) Silver 14) Tin 15) Zinc	Leachate Extraction: EPA SW-846 EPA 1311:1992 Analysis In House Method (MS-0045514 MS-0045515)	0.001-10000 mg/L
156	Sludge: MRSL	Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all Isomers: 1) NP(Mixed isomers) 2) OP(Mixed isomers) 3) NPEO 4) OPEO	In House Method based on ISO 18857 -2:2011, ISO 18254-1:2016 (MS-0045536)	0.1-10000 mg/kg
157	Sludge: MRSL	Polycyclic Aromatic Hydrocarbons (PAHs): 1) Acenaphthene 2) Acenaphthylene 3) Anthracene 4) Benzo[a]anthracene 5) Benzo[a]pyrene (BaP) 6) Benzo[b]fluoranthene 7) Benzo[e]pyrene 8) Benzo[ghi]perylene 9) Benzo[j]fluoranthene 10) Benzo[k]fluoranthene 11) Chrysene 12) Dibenzo[a,h]anthracene 13) Fluoranthene 14) Fluorene 15) Indeno[1,2,3-cd]pyrene	In House Method based on USEPA 3541:1994, USEPA 3550C:2007, USEPA 8270E:2018 (MS-0045517)	0.1-10000 mg/kg


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		16) Naphthalene 17) Phenanthrene 18) Pyrene		
158	Sludge: MRSL	Chlorotoluenes: Mono-, di-, tri-, tetra- and penta chlorotoluene 1) 2-Chlorotoluene 2) 3-Chlorotoluene 3) 4-Chlorotoluene 4) 2,3-dichlorotoluene 5) 2,4-dichlorotoluene 6) 2,5-dichlorotoluene 7) 2,6-dichlorotoluene 8) 3,4-dichlorotoluene 9) 3,5-dichlorotoluene 10) 2,3,4-Trichlorotoluene 11) 2,3,6-Trichlorotoluene 12) 2,3,5-Trichlorotoluene 13) 2,4,6-Trichlorotoluene 14) 3,4,5-Trichlorotoluene 15) 2,3,4,5-Tetrachlorotoluene 16) 2,3,5,6-Tetrachlorotoluene 17) 2,3,4,6-Tetrachlorotoluene 18) Pentachlorotoluene	In House Method based on US EPA 3541:1994, US EPA 3550C:2007, US EPA 8270E:2018, EN 17137:2024 (MS-0045535)	0.01-100 mg/kg
159	Sludge: MRSL	Chlorobenzenes: 1) Monochlorobenzene 2) 1,2-Dichlorobenzene 3) 1,3-Dichlorobenzene 4) 1,4-Dichlorobenzene 5) 1,2,3-Trichlorobenzene 6) 1,2,4-Trichlorobenzene 7) 1,3,5-Trichlorobenzene 8) 1,2,3,4- Tetrachlorobenzene 9) 1,2,3,5- Tetrachlorobenzene 10) 1,2,4,5- Tetrachlorobenzene 11) Pentachlorobenzene 12) Hexachlorobenzene	In House Method based on USEPA 3541:1994, US EPA 3550C:2007, US EPA 3640A :1994, US EPA 8270E:2018, EN 17137:2024 (MS-0045535)	0.01-100 mg/kg
160	Sludge: MRSL	Flame Retardants:	In House Method based on USEPA 8270E:2018,	0.1-10000 mg/kg


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		1) 2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	EN ISO 22032:2009, USEPA 527:2005,	
		2) Bis(2,3-dibromopropyl)phosphate (BDBPP)	USEPA 8321B:2007, USEPA 200.8 (MS-0045539)	
		3) Boric acid	MS-0045540,	
		4) Decabromobiphenyl (DecaBB)	MS-0045541, MS-0045542,	
		5) Decabromodiphenyl ether (DecaBDE)	MS-0045610)	
		6) Diboron trioxide		
		7) Dibromobiphenyls (DiBB)		
		8) Dibromopropylether		
		9) Disodium octaborate		
		10) Disodium tetraborate anhydrous		
		11) Heptabromodiphenylether (HeptaBDE)		
		12) Hexabromocyclodecane (HBCDD)		
		13) Hexabromodiphenyl ether (HexaBDE)		
		14) Monobromobiphenyls (MonoBB)		
		15) Monobromodiphenyl ethers (MonoBDEs)		
		16) Nonabromobiphenyls (NonaBB)		
		17) Nonabromodiphenyl ether (NonaBDE)		
		18) Octabromobiphenyls (OctaBB)		
		19) Octabromodiphenyl ether (OctaBDE)		
		20) Pentabromodiphenyl ether (PentaBDE)		
		21) Polybromobiphenyls (PBB)		
		22) Tetraboron disodium heptaoxide, hydrate		
		23) Tetrabromobisphenol A (TBBPA)		

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		24) Tetrabromodiphenylether (TetraBDE) 25) Tri-o-cresyl phosphate 26) Tribromodiphenylethers (TriBDEs) 27) Trimethyl phosphate 28) Tris(1,3- dichloroisopropyl)phosphate (TDCP) 29) Tris(1- aziridinyl)phosphineoxide)(T EPA) 30) Tris(2,3,- dibromopropyl)phosphate(TR IS) 31) Tris-(2-chloro-1- methylethyl)phosphate (TCPP) 32) Tris(2- chloroethyl)phosphate (TCEP) 33) Trixylyl phosphate (TXP)		
161	Sludge: MRSL	Perfluorinated and Polyfluorinated Chemicals (PFCs): 1) Perfluorooctane sulfonate (PFOS) and related substances, 2) Perfluorooctanoic acid (PFOA) and related substances 3) 4:2 Fluorotelomer alcohols (4:2 FTOH) 4) 6:2 Fluorotelomer alcohols (6:2 FTOH) 5) 8:2 Fluorotelomer alcohols (8:2 FTOH) 6) 10:2 Fluorotelomer alcohols (10:2 FTOH) 7) Perfluorobutane sulfonic acid (PFBS)	In House Method based on EPA 537:2020 DIN 38407-42, ISO 25101:2009, USEPA 8270E (MS-0045538)	0.1-10000 mg/kg


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		8) Perfluorobutanoic acid (PFBA) 9) Perfluorodecane sulfonic acid (PFDS) 10) Perfluorodecanoic acid (PFDA) 11) Perfluorohexane sulfonic acid (PFHxS) 12) Perfluorohexanoic acid (PFHxA) and related substances		
162	Sludge: MRSL	Phthalates – Including All Other Esters of Ortho-Phthalic Acid: 1) 1,2-Benzenedicarboxylic acid, di-C6-8-branched and linear alkyl esters, C7-rich (DIHP) 2) 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) 3) 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 4) 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear 5) Bis(2-methoxyethyl) phthalate (DMEP) 6) Butyl benzyl phthalate (BBP) 7) Di(ethylhexyl) phthalate (DEHP) 8) Di-cyclohexyl phthalate (DCHP) 9) Di-iso-butyl phthalate (DIBP) 10) Di-iso-decyl phthalate (DIDP) 11) Di-iso-octyl phthalate (DIOP) 12) Di-isononyl phthalate (DINP) 13) Di-n-hexyl phthalate (DnHP)	In House Method based on US EPA 8270E:2018, EN ISO 18856:2005 (MS-0045532)	0.1-10000 mg/kg


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		14) Di-n-octyl phthalate (DNOP) 15) Di-n-pentylphthalates (DnPP) 16) Di-n-propyl phthalate (DPRP) 17) Dibutyl phthalate (DBP) 18) Diethyl phthalate (DEP) 19) Diisohexyl phthalate 20) Diisopentyl phthalates (DIPP) 21) Dinonyl phthalate (DNP) 22) n-Pentyl-isopentyl phthalate		
163	Sludge (Sludge Disposal Pathways)	Heavy Metals: 1) Antimony 2) Arsenic 3) Barium 4) Cadmium 5) Chromium (VI) 6) Chromium (Total) 7) Cobalt 8) Copper 9) Lead 10) Mercury 11) Nickel 12) Selenium 13) Silver 14) Tin 15) Zinc	In House Method based on ISO 17294-1:2024, ISO 17294-2:2023, ISO 17075-1:2017 & ISO 17075-2:2017 (MS-0045514, MS-0045515)	0.01-10000 mg/kg
164	Food Contact Materials (FCM)	Global Migration/Overall migration	In House Method (MS-0054123)	1-100 mg/kg or mg/dm ²
165	Food Contact Materials (FCM)	Specific Migration of Heavy metals 1) Arsenic 2) Antimony 3) Lead 4) Cadmium 5) Chromium 6) Mercury 7) Nickel 8) Copper 9) Cobalt	In House Method (MS-0054124)	0.001-1000 mg/kg or mg/dm ²


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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		10) Tin 11) Barium 12) Zinc 13) Selenium 14) Manganese 15) Iron 16) Silver 17) Molybdenum 18) Potassium 19) Sodium 20) Titanium 21) Zirconium 22) Cr-VI 23) Aluminium 24) Phosphorus 25) Sulfur 26) Silicone 27) Lanthanum 28) Terbium 29) Europium 30) Gallium 31) Lithium 32) Gadolinium 33) Magnesium		
166	Food Contact Materials (FCM)	Specific Migration of Primary Aromatic Amines (PAA): 1) 4-Aminodiphenyl 2) Benzidine 3) 4-Chloro-o-Toluidine 4) 2-Naphthylamine 5) o-Aminoazotoluene 6) 5-nitro-o-toluidine 7) 4-methoxy-m- phenylenediamine 8) 4,4'- Diaminodiphenylmethane 9) 3,3'-Dichlorobenzidine 10) 3,3'-Dimethoxybenzidine 11) 3,3'-Dimethylbenzidine 12) 4,4'-methylenedi-o- toluidine	In House Method (MS-0054125)	0.001-1000 mg/kg or mg/dm ²


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Certificate Number: 01.035.16
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		13) p-Cresidine		
		14) 4,4'-methylene-bis-(2-chloro-aniline)		
		15) 4,4'-oxydianiline		
		16) 4,4'-Thiodianiline		
		17) 2,4,5-Trimethylaniline		
		18) 4-aminoazobenzene*		
		19) O-Anisidine		
		20) Meta-Phenylenediamine		
		21) Benzoguanamine		
		22) 4,4-methylenebis- (3-chlor-2,6 diethylaniline)		
		23) 4-chloro-2,5 dimethoxyaniline		
		24) 2-Aminobiphenyl		
		25) 3,3-Diaminobenzidin		
		26) Ortho-Phenylenediamine		
		27) 5-chloro-2-methylaniline		
		28) Meta-Toluidine		
		29) 3-Chloroaniline		
		30) 2-Chloroaniline		
		31) 2,5-dichloroaniline		
		32) 2-nitroaniline		
		33) 2,4-dinitroaniline		
		34) Para-Toluidine		
		35) 1,5-Diamino-naphthalene		
		36) 4-Ethoxyaniline(p-Phenetidine)		
		37) 2-ethoxyaniline(o-Phenetidine)		
		38) 2-Amino-6-ethoxynaphthalin		
		39) 4,4-diaminodiphenyl sulphone(Dapson)		
		40) 2-aminobenzamide(Anthranil amide)		
		41) 4-Aminobenzamide		
		42) 3-Amino-4methylbenzamide		
		43) 3-Anisidine		

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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		44) 3-Amino-4-methoxybenzanilide 45) Dimethyl-2-aminoterephthalate 46) 4-aminotoluole-3-sulfonic acid 47) 2-aminonaphthalene-1-sulfonic acid 48) 2-chloro-4-nitroaniline 49) 1,4-Diamino-2-nitrobenzene		
167	Food Contact Materials (FCM)	Specific Migration of PAH: 1) Napthalene 2) Acenaphthylene 3) Acenaphthene 4) Fluorene 5) Phenanthrene. 6) Anthracene 7) Fluoranthene. 8) Pyrene 9) 1-Methylpyrene 10) Cyclopenta (c,d) pyrene 11) Benzo(a)anthracene 12) Chrysene 13) Benzo(b) Flurenthene 14) Benzo(j) flurenthene 15) Benzo(k) Flurenthene 16) Benzo(e)pyrene 17) Benzo(a)pyrene. 18) Indeno(1,2,3-cd)pyrene. 19) Dibenzo(ah)anthracen 20) Benzo(ghi) perylene. 21) Dibenzo(a 1) pyrene . 22) Dibenzo(a e) pyrene. 23) Dibenzo(a i) pyrene 24) Dibenzo(a h) pyrene	In House Method (MS-0054126)	0.1-1000 mg/kg or mg/dm ²
168	Food Contact Materials (FCM)	Specific migration of formaldehyde	In House Method (MS-0054127)	0.1-1000 mg/kg or mg/dm ²
169	Food Contact Materials (FCM)	Specific migration of Melamine	In House Method (MS-0054128)	0.1-1000 mg/kg or mg/dm ²
170	Food Contact	Specific migration of phthalates:	In House Method	1-1000 mg/kg or


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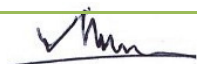
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	Materials (FCM)	1) DBP: Dibutyl Phthalate 2) DIBP: Di-Isobutyl Phthalate 3) BBP: Benzylbutyl Phthalate 4) DEHP: Bis(2-Ethylhexyl) Phthalate 5) DNOP: Di-n-octyl phthalate 6) DINP: Di-isononyl Phthalate 7) DIDP: Di-isodecyl Phthalate 8) DMEP: Di Methoxy ethyl Phthalate 9) DIPP: Di-iso pentyl Phthalate 10) DIHP: 1,2 Dicarboxylic Acid 11) DHP: Dihexyl Phthalate 12) DEP: Diethyl Phthalate 13) DCHP: Di-cyclohexyl Phthalate 14) DPP: Dipentyl Phthalate 15) DnHP: Di-n-hexyl Phthalate 16) PiPP-N-pentyl- isopentylphthalate 17) DNP: Dinonyl Phthalate 18) DIOP: Di-iso-octyl Phthalate 19) DMP: Dimethyl Phthalate 20) NPIP: Pentyl-iso-pentyl phthalate 21) DPHP: Bis-(2-ethylhexyl) phthalate 22) DNPP: Di-n-pentyl phthalate 23) DMPP Bis(4-methylpentyl) Phthalate 24) DUDP/DUNP: Di-n-undecyl Phthalate/ Bis-n-undecyl ester 25) DiHexP(1,2-benzene dicarboxylic acid, dihexyl ester) 26) DINCH(1,2- Cyclohexanedicarboxylic acid, 1,2-diisononyl ester 27) DAP(Diallyl phthalate	(MS-0054129)	mg/dm ²


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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		28) EPEG(Ethyl Phthalyl Ethyl Glycolate) 29) BPBG(Butyl Phthalyl Butyl Glycolate) 30) DHNuP(Dialkyl Phthalate) 31) TBPH(Bis(2-ethylhexyl) tetrabromophthalate)		
171	Food Contact Materials (FCM)	Specific migration of Bisphenol A	In House Method Based on EN 71-19:2024 (MS-0054131)	0.01-1000 mg/kg or mg/dm ²
172	Food Contact Materials (FCM)	Total content of PCP, TeCP & TriCP(Natural material wood/paper): 1) 2,4,6 – Trichlorophenol 2) 2,3,5 – Trichlorophenol 3) 2,3,6 – Trichlorophenol 4) 2,4,5 – Trichlorophenol 5) 3,4,5 – Trichlorophenol 6) 2,3,4 – Trichlorophenol 7) 2,3,5,6 – Tetrachlorophenol 8) 2,3,4,6 – Tetrachlorophenol 9) 2,3,4,5 – Tetrachlorophenol 10) Pentachlorophenol[PCP] 11) 2-CP-2 Chlorophenol 12) 3-CP-3 Chlorophenol 13) 4-CP- 4 Chlorophenol 14) 2,6-DCP 15) 2,5-DCP 16) 3,5-DCP 17) 2,4-DCP 18) 2,3-DCP 19) 3,4-DCP 20) 2,4,6-TBP 21) Ortho-Phenylphenol [OPP] 22) 2,6-DMP 23) Tetrachlorophenol(TeCP) 24) Trichlorophenol (TriCP)	In House Method (MS-0054132)	0.05-1000 mg/kg
173	Food Contact Materials (FCM)	PAH content: 1) Napthalene	In House Method (MS-0045493)	0.1-1000 mg/kg


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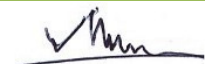
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		2) Acenaphthylene 3) Acenaphthene 4) Fluorene 5) Phenanthrene. 6) Anthracene 7) Fluoranthene. 8) Pyrene 9) 1-Methylpyrene 10) Cyclopenta (c,d) pyrene 11) Benzo(a)anthracene 12) Chrysene 13) Benzo(b)Fluorethene 14) Benzo(j)fluorethene 15) Benzo(k)Fluorethene 16) Benzo(e)pyrene 17) Benzo(a)pyrene. 18) Indeno(1,2,3-cd)pyrene. 19) Dibenzo(ah)anthracene. 20) Benzo(ghi) perylene. 21) Dibenzo(a 1) pyrene . 22) Dibenzo(a e) pyrene. 23) Dibenzo(a i) pyrene 24) Dibenzo(a h) pyrene		
174	Food Contact Materials (FCM)	Bisphenol A Content	In House Method (MS-0045507)	0.1-10000 mg/kg
175	Food Contact Materials (FCM)	Heavy metals in packaging: 1) Lead (Pb), 2) Cadmium (Cd) 3) Mercury (Hg) 4) Hexavalent Chromium (Cr VI)	In House Method based on CEN/TR 13695-2:2019 (MS-0054136)	0.1-10000 mg/kg
176	Food Contact Materials (FCM)	Lead & Cadmium content: 1) Lead 2) Cadmium	In House Method (MS-0054130)	2-10000 mg/kg
177	Food Contact Materials (FCM)	Leachable lead and Cadmium: 1) Lead 2) Cadmium	In House Method (MS-0054137)	0.002-1000 mg/kg or mg/dm ²
178	Food Contact Materials (FCM)	Peroxide Value	In House Method (MS-0054138)	Qualitative
179	Food Contact	Catalyst Residue:	In House Method	1-10000 mg/kg


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	Materials (FCM)	1) Chromium (Cr) 2) Vanadium (V) 3) Zirconium (Zr)	(MS-0054139)	
180	Food Contact Materials (FCM)	Sensorial examination	In House Method (MS-0054140)	0-5
181	Food Contact Materials (FCM)	Color Fastness to Food simulant	In House Method (MS-0054141)	0-5
182	Food Contact Materials (FCM)	Volatile Organic Components (VOC/VOM)	In House Method (MS-0054142)	0.1-99 %
183	Food Contact Materials (FCM)	Dishwasher safe Test	In House Method (MS-0054143)	Qualitative
184	Food Contact Materials (FCM)	Microwave-safe Test	In House Method (MS-0054144)	Qualitative
185	Food Contact Materials (FCM)	Freezer Safe Test	In House Method (MS-0054145)	Qualitative
186	Food Contact Materials (FCM)	Leakage proof Test	In House Method (MS-0054146)	Qualitative

Field: Biological Testing

1	Wastewater: Conventional Parameters	E.coli	In House Method based on SM 9221B presumptive, confirm positive with SM9221F or G (MS-0053969)	2.0 MPN/100-ml - 1600 MPN/100-ml
2	Sludge: Conventional Parameters	Fecal Coliform	In House Method based on EPA 1681:2006 (MS-0054922)	2 MPN/g - 1609 MPN/g

END



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