



ACCREDITATION CERTIFICATE

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

Eurofins Modern Testing Services (Bangladesh) Ltd.

280, East Narsinghpur, Ashulia, Savar

Dhaka-1341, 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 : 01.015.14
Accreditation Date : 23 July 2014
Date of Issuance : 09 September 2024 (4th Renewal)
Date of Expiration : 22 July 2027




Md. Anwarul Alam
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: Eurofins Modern Testing Services (Bangladesh) Ltd.,
280, East Narsinghpur, Ashulia, Savar, Dhaka-1341, Bangladesh.

Accreditation Standard: ISO/IEC 17025:2017

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Amendment no: 01

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				
01.	Textile, Fabric, Garment & Accessories	Threads Per Unit Length (Woven Fabric Construction)	ASTM D 3775 – 2017 ISO 7211-2:1984	10 to 80 per cm (15 to 250 per Inch)
02.	Textile, Garment & Accessories	Sharp Point Test	16 CFR 1500.48:2019 ASTM F963:2023, Sec-4.9 (Sharp Point)	Qualitative
03.	Textile, Garment & Accessories	Sharp Edge Test	16 CFR 1500.49:2019 ASTM F963:2023, Sec-4.7 (Sharp Edge)	Qualitative
04.	Textile, Garment & Accessories	Small Parts Test (Small Part Cylinder Of 31.7 Mm Inner Diameter)	16 CFR 1501:2019 ASTM F963:2023, Sec-4.6 (Small Parts)	Qualitative
05.	Textile, Garment & Accessories	Tension Test Up To 294 N (Up To 30 Kg Or 66 Pounds)	16 CFR 1500.50-53:2019 ASTM F963:2023, Sec-8.9 (Tension Test)	Qualitative
06.	Textile, Garment & Accessories	Torque Test Up To 9.0 Kg-Cm (Up To 7.8 Inch Pound)	16 CFR 1500.50-53:2019 ASTM F963:2023, Sec-8.8 (Torque Test)	Qualitative
07.	Textile, Garment & Accessories	Pilling Resistance and Other Related Surface Changes Of Textile Fabrics: Random Tumble Pilling	ASTM D3512: 2016 BS EN ISO 12945-3:2020	Grade :1-5
08.	Textile, Garment & Accessories	Determination Of Fabric Propensity to Surface Fuzzing and To Pilling (ICI Pilling Box Method)	BS EN ISO 12945-1 :2020	Grade :1-5
09.	Textile, Garment & Accessories	Determination Of Fabric Propensity to Surface Fuzzing and Pilling (Modified Martindale Method)	BS EN ISO 12945-2 :2020	Grade :1-5
10.	Textile, Garment & Accessories	Stretch And Recovery/ Tension & Elongation of Elastic Fabrics	ASTM D2594:2021 BS EN 14704-1:2005 ASTM D3107:07(2019)	1 to 500%
11.	Textile, Garment & Accessories	Measurement Of Bow & Skewness	ASTM D3882:14(2020)	0.1 to 50 cm
12.	Textile, Garment & Accessories	Mass Per Unit Area	ASTM D 3776: 2020 ISO 3801:1977 BS EN 12127:1998 AS 2001.2.13-1987(R2016)	1 to 1000 g/m ²
13.	Textile, Garment & Accessories	Tearing Strength by Falling-Pendulum (Elmendorf-Type) Apparatus	ASTM D1424: 2021 BS EN ISO 13937-1: 2000 AS 2001.2.8: 2001 (R2016)	800 CN to 12,800 CN
14.	Textile, Garment & Accessories	Breaking Strength and Elongation	ASTM D5034: 2021 BS EN ISO 13934-1:2013 BS EN ISO 13934-2:2014 AS 2001.2.3.2:2001	5 N to 5000 N
15.	Textile, Garment & Accessories	Bursting Strength (Hydraulic Method)	ASTM D 3786 / D 3786M: 2018 ISO 13938-2:2019 ISO 13938-1:2019 AS 2001.2.4:1990	35 kPa to 1380 kPa (05 to 200 psi)
16.	Textile, Garment & Accessories	Seam Slippage -Fixed Seam Opening Method -Fixed Load Method -Resistance To Seam Slippage Using A Standard Seam -Failure In Sewn Seams Of Woven	ISO 13936-1:2004 ISO 13936-2:2004 ASTM D 434:1995 ASTM D 1683/D 1683M:2018	0 - 6 mm 5 N to 5000 N

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		Apparel Fabrics		
17.	Textile, Garment & Accessories	Seam Strength-Maximum Force to Seam Rupture -Strip Method -Grap Method	ISO 13935-1:2014 ISO 13935-2:2014	5 N to 5000 N
18.	Textile, Garment & Accessories	Determination Of Removal Force of Attached Components For Children's Clothing	BS 7907 :2007 (Annex -B, Page 27-39) PD CEN/TR 16792:2014 PD CEN/TS 17394-1: 2021 PD CEN/TS 17394-2: 2020 PD CEN/TS 17394-3: 2021 PD CEN/TS 17394-4: 2021	05 N to 1000 N
19.	Textile, Garment & Accessories	Dimensional Changes After Home Laundering	AATCC 135:2018t AATCC 150: 2018t ISO 6330:2012 ISO 3759:2011 BS EN ISO 5077:2007 AS 2001.5.4: 2005 (R 2016)	Elongation 0 to 50% Shrinkage 0 to 50%
20.	Textile, Garment & Accessories	Skewness Change in Fabric and Garment Twist Resulting From Automatic Home Laundering	AATCC 179: 2019 AATCC 207: 2019 ISO 16322-1,2,3: 2005	0 to $\pm$ 50 %
21.	Textile, Garment & Accessories	Smoothness Appearance of Apparels After Repeated Home Laundering	AATCC 124: 2018t AATCC 143: 2018t AATCC 88B: 2018t AATCC 88C: 2018t ISO 15487:2018	Grade :1-5
22.	Textile, Garment & Accessories	Abrasion Resistance (Martindale)	ISO 12947-1: 1999 ISO 12947-2: 2016 ISO 12947-3: 1999 ISO 12947-4: 1999	Grade :1-5
23.	Textile, Garment & Accessories	Water Repellency (Spray Test)	AATCC TM 22-2017e ISO 4920-2012	ISO 1 to ISO 5 (0 to 100)
24.	Textile, Garment & Accessories	Water Resistance (Rain Test)	AATCC TM 35-2018e2	0.1 to 100g
25.	Textile, Garment & Accessories	Torque Test	EN 71-1 Part 8.3: 2014+A1:2018 (BS EN 71-1 part 3:2014+A1:2018)	Qualitative
26.	Textile, Garment & Accessories	Tension Test	EN 71-1 Part 8.4: 2014+A1:2018 (BS EN 71-1 part 4:2014+A1:2018)	Qualitative
27.	Textile, Garment & Accessories	Sharpness Of Edges	EN 71-1 Part 8.11: 2014+A1:2018 (BS EN 71-1 part 11:2014+A1:2018)	Qualitative
28.	Textile, Garment & Accessories	Sharpness Of Points	EN 71-1 Part 8.12: 2014+A1:2018 (BS EN 71-1 part 8.12: 2014+A1:2018)	Qualitative
29.	Textile, Garment & Accessories	Small Parts Cylinder	EN 71-1 Part 8.2: 2014+A1:2018 (BS EN 71-1 part 8.2: 2014+A1:2018)	Qualitative
30.	Textile, Garment & Accessories	Soil Release	AATCC 130-2018	Grade 1-5
31.	Leather & Footwear	Test Methods for Whole Shoe - Flexing Durability	ISO 24266:2020 (Method A)	30,000-50,000 Cycle
32.	Leather & Footwear	Fatigue Test for Shoe Heels	ISO 19956:2004	100-20,000 Cycle
33.	Leather & Footwear	Shoe Lace To Shoe Lace And Shoe Lace To Lace To Carrier Abrasion	ISO 22774:2004 (Method 1 & 3)	100-10,000 Cycle

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		Test		
34.	Leather & Footwear	Determination Of Thickness of Leather	ISO 2589:2016	0.01-10mm
35.	Leather, Footwear & Accessories	Corrosion Resistance	ISO 22775 (Method B)	Grade: 1-5
36.	Leather & Footwear	Flexing Resistance of Upper Material - Bally Flexing	SATRA TM 55: 1999 ISO 17694: 2016	Qualitative
37.	Leather & Footwear	Abrasion Resistance (Martindale)	SATRA TM31: 2021 ISO 17704: 2004	Qualitative
38.	Leather & Footwear	Color Fastness to Rubbing	ISO 17700:2019 Method A (Dry & Wet)	Qualitative
39.	Leather & Footwear	Sole Bonding Strength	ISO 17708: 2018 SATRA TM411:2023	0-600 N
40.	Leather & Footwear	Outsole Abrasion Resistance	ISO 20871:2018 SATRA TM174:2016	0-40 m
Field: Chemical Testing				
01.	Textile & Garment	Fiber Composition Qualitative & Quantitative Analysis (Composition in Weight %)	ISO 1833-1,2,3,12,16,18, 21&22: 2020, ISO 1833-4,7&11:2017, ISO 1833-6: 2018, ISO/TR 11827-2012 Regulation (EU) No 1007/2011 AATCC 20-2021, AATCC 20 A-2021, CAN/CGSB-4.2 No. 14-2005 AS 2001.7-2005 (R2016)	Up to 100%
02.	Textile & Garment	Flammability Of General Clothing Textile	CAN/CGSB-4.2 NO. 27.5:2023 16 CFR 1610:2023 ASTM D 1230 - 2022	0-15 sec
03.	Textile & Garment	Flammability Of Children Sleepwear	16 CFR 1615:2023 16 CFR 1616:2023	0-10 inch
04.	Textile & Garment	Burning Behavior of Children's Nightwear	BS EN 14878-2007 BS 5722-1984, BS 5438-1976	0-50 sec
05.	Textile & Garment	Colour Fastness to Ozone	AATCC 109: 2016 ISO 105 G-03:1993	Grade: 1-5
06.	Textile, Garment, Leather, Footwear & Accessories	Colour Fastness to Phenolic Yellowing of Materials	ISO 105 X18: 2007	Grade: 1-5
07.	Textile, Garment, Leather, Footwear & Accessories	Colour Fastness to Light	ISO 105 B02: 2014 AATCC 16.3, Option: 3 - 2020	Rating: 1 – 8 Rating: 1 – 8 Rating: 1 – 8 Grade: 1 – 5
08.	Textile, Garment, Leather, Footwear & Accessories	Colour Fastness to Perspiration	AATCC 15: 2021 BS EN ISO 105-E04: 2013 AS 2001.4.E04-2004 (R2016)	Grade: 1-5
09.	Textile, Garment, Leather, Footwear & Accessories	Colour Fastness to Water	AATCC 107: 2022 BS EN ISO 105 E01: 2013 AS 2001.4.E01-2001 (R2016)	Grade: 1-5
10.	Textile, Garment, Leather, Footwear & Accessories	Colour Fastness to Sea Water	AATCC 106-2013 BS EN ISO 105 E02: 2013 AS 2001.4.E02 - 2001	Grade: 1-5
11.	Textile, Garment & Accessories	Colour Fastness to Laundering: Accelerated	AATCC 61-2020	Grade: 1-5
12.	Textile, Garment & Accessories	Colour Fastness to Domestic & Commercial Laundering	ISO 105 C06: 2010 AS 2001.4.15-2006 (R2016)	Grade: 1-5
13.	Textile, Garment, Leather, Footwear & Accessories	Colour Fastness to Crocking	AATCC 8: 2022 AATCC 116: 2018e (2022) e	Grade: 1-5

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14.	Textile, Garment, Leather, Footwear & Accessories	Colour Fastness to Artificial Saliva	DIN 153160-1 & 2: 2010	Grade: 1-5
15.	Textile, Garment, Leather, Footwear & Accessories	Colour Fastness to Rubbing	BS EN ISO 105 X12: 2016 AS 2001.4.3-1995(R2016)	Grade: 1-5
16.	Textile, Garment & Accessories	Colour Fastness to Dry Cleaning	ISO 105 D01-2010 [E] AATCC 132-2013	Grade: 1-5
17.	Textile, Garment & Accessories	Colour Fastness to Water: Chlorinated Pool	ISO 105 E03-2010 AATCC 162-2011 AS/NZS 2001.4.5:1998	Grade: 1-5
18.	Textile, Garment, Leather, Footwear & Accessories	Colour Fastness to Water Spotting	AATCC 104:2010 (2014)e2 BS EN ISO 105 E07-2010	Grade: 1-5
19.	Textile, Garment & Accessories	Colour Fastness to Non-Chlorine Bleach	BS EN ISO 105 C09: 2003	Grade: 1-5
20.	Textile, Garment & Accessories	Colour Fastness to Burnt Gas Fumes	AATCC 23: 2015(2020) ISO 105 G02: 1993 BS EN ISO 105 G02: 1993	Grade: 1-5
21.	Textile, Garment & Accessories	Wicking	AATCC 197-2022	0 to 200 mm
22.	Textile, Garment & Accessories	Aqueous Liquid Repellency: Water/Alcohol Solution Resistance	AATCC 193-2023	0 to 8
23.	Textile, Garment & Accessories	Oil Repellency: Hydrocarbon Resistance	AATCC 118-2020	0 to 8
24.	Textile & accessories including print on textile or leather items and polymeric products	Total Lead in paint & similar surface coatings	SOP # 0002 U.S. CPSC 16 CFR 1303 CPSC-CH -E 1003-09.1: 2011. C-02.2:2011 U.S. CPSC 16 CFR 1303 Digestion procedure: ASTM E1645: 2021, SOP# 0015 ASTM F2853-10 (XRF)	5 to 5000 ppm. LOD: 1 ppb
25.	Textile, Garments and Accessories (Ceramic, Glass, Crystal, Siliceous, Material, Plastic, Metal, and leather	Total Lead in substrate in metal and non-metal children's product and Children's metal jewelry.	SOP # 0003 & 003a U.S. CPSIA of 2008 Title I Section 101, CPSC-CH-E1001-08.2 and / or CPSC-CH-E1001-08.3:2012 & CPSC-CH-E1002-08.2 and / or CPSC-CH-E1002-08.3:2012	5 to 5000 ppm. LOD: 1 ppb
26.	Textile & accessories including print on textile	Phthalates Content in Toys, children's products, childcare article, Textiles & Leather. 1. Dibutyl phthalate (DBP) 2. Diethyl hexyl phthalate (DEHP) 3. Benzyl butyl phthalate (BBP) 4. Diisononyl phthalate (DINP) 5. Di-n-octyl phthalate (DNOP) 6. Diisodecyl phthalate (DIDP) 7. Di-n-hexyl phthalate (DNHP) 8. Diethyl phthalate (DEP) 9. Dinonyl phthalate (DNP) 10. Di-cyclohexyl phthalate (DCHP) 11. Di-propyl phthalate (DPRP)	SOP # 0001 (CPSIA 2008 (HR 4040) title 1- section 108, CPSC-CH-C1001-09.4:2018) SOP # 0033a. (ISO 14389: 2022) SOP # 0033b. (ISO 16181-1: 2021) SOP # 0046 (EN 14372:2004)	50-1000mg/Kg LOD: 0.25 mg/L

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		12. Diisobutyl phthalate (DIBP) 13. Dimethyl phthalate (DMP) 14. Diisooctyl phthalate (DIOP) 15. Butyl octyl phthalate (BOP) 16. Diundecyl phthalate (DUP) 17. Bis(2-methyloxyethyl) phthalate (DMEP) 18. Diisopentyl phthalate (DIPP) 19. Diallyl phthalate (DPP) 20. 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 21. Phthalic acid,n-pentyl-isopentyl ester (NPIPP) 22. Phthalic acid,bis-n-heptyl ester (DnHepP)		
27.	Textile Polymer and composite materials; Plastic and Coating materials	Total Cadmium Content	SOP # 0016 (EN-1122:2001) SOP#0035 CPSC-CH-E1004-11	5 to 3000 mg/kg LOD: 1 ppb
28.	Textile & Leather	Determination of pH of aqueous textile extract	SOP # 0007 (ISO 3071:2020) SOP # 0008 (AATCC 81:2022). SOP # 14 (BS EN1413):1998 SOP # 0038 (BS EN ISO 4045:2018) SOP # 0007a (GB/T 7573: 2009) (ASTM D 2810)	1-14
29.	Textile fabric, Garment and Leather products	Banned aryl amines from Azo dyes. [o-Toluidine (95-53-4). 2-Methoxyaniline (90-04-0). p-Chloroaniline (106-47-8). p-Kresidine (120-71-8). 2,4,5-Trimethylaniline (137-17-7). 4-Chloro-o-Toluidine (95-69-2). 2,4-Toluylenediamine (95-80-7). 2,4-Diaminoanisole (615-05-4). 2-Naphthylamine (91-59-8). 2-Amino-4-Nitrotoluene (99-55-8). 4-Aminodiphenyl (92-67-1). 4,4'-Oxydianiline (101-80-4). Benzidine (92-87-5). 4,4'-Diaminodiphenylmethane (101-77-9); o-Aminoazotoluene (97-56-3). 3,3'-Dimethyl-4,4'-Diaminodiphenylmethane (838-88-0). 3,3'-Dimethylbenzidine (119-93-7). 4,4'-Thiodianiline (139-65-1). 3,3'-Dichlorobenzidine (91-94-1). 4,4'-Methylene-bis-(2-Chloroaniline) (101-14-4);3,3'-Dimethoxybenzidine (119-90-4). 2,4-Xylidine (95-68-1);2,6-Xylidine (87-62-7); P-Aminoazobenzene (60-09-3);	SOP # 0009 (EN 14362-1:2017) SOP # 10a. (ISO 17234-1:2020) SOP # 10b. (ISO 17234-2:2011) SOP# 00012 (GB/T 23344-2009) SOP# 00012a. (EN 14362-3: 2017) SOP# 0011 (GB/T 17592-2011) SOP# 0013 (GB/T 19942-2005)	5 – 500 mg/kg LOD: 0.5 mg/kg

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30.	Textile a) Surface coating materials (Coating, Printing ink and pigments). b) Children's products toy substrate materials	Soluble Heavy Metal Test	SOP # 0004 (BS EN 71-3: 1995/ BS 5663-3: 1995 with Amendment A1: 2001 and Corrigendum No. 1: 2006 ISO 8124.3:2010/ Amd.1:2014/AS/NZS ISO 8124.3:2012 A1 ASTM F963-11/ ASTM F963-16/ ASTM F963-17) SOP # 0004a; (ASTM F963-2023 Section 4.3.5.1 & 4.3.5.2); SOP# 0004d (EN 71-3:2013+A3:2018) SOP# 0004f (EN 71-3:2019+A1:2021)	Cr (III): 1-1000 mg/kg; Cr (VI): 0.01-100mg/kg Co: 1-500 mg/kg; Pb: 1-500 mg/kg; Ni: 1-2000 mg/kg; Cu: 1- 15000 mg/kg; As: 1-1000 mg/kg; Sb: 1-1000 mg/kg; Cd: 1-500 mg/kg; Hg: 0.1-100 mg/kg; Mn: 1-30000 mg/kg; B: 1-30000 mg/kg; Se: 1-1000 mg/kg; Sn: 1-200000 mg/kg; Org.tin: 0.05-100 mg/kg Ba: 1-40000 mg/kg; Zn: 1-100000 mg/kg; Al: 1-100000 mg/kg; Sr: 1-100000 mg/kg
31.	Textile and leather	Disperse Dyes	SOP # 0022 (DIN 54231; GB/T 20383) SOP# 0022a (ISO 16373-2:2014)	5-1000 mg/kg LOD: 0.1 mg/L
32.	Textile and leather	Determination of Quinoline	SOP # 0022b (DIN 54231)	5-1000 mg/kg LOD: 0.1 mg/L
33.	Liquid, textile, polymeric and other materials	Determination of Polycyclic Aromatic Hydrocarbons (PAHs)	MTS Validated In-House Method/ SOP # 0043. (AfPS GS 2019:01 PAK, BS EN 17132:2019 ISO/TS 16190:2013(E))	0.1-500 mg/kg LOD: 0.05 mg/L
34.	Textiles and coated material	Determination of Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulphonates (PFOS)	MTS Validated In-House Method/ SOP # 0044 (Solvent Extraction /LCMS)	0.01 µg/m ² -1000 µg/m ² 0.01 mg/kg-100 mg/kg LOD: 0.01 µg/L
35.	Textile and leather	Free and Hydrolyzed Formaldehyde	SOP # 0017 JIS L1041:2011 Part A&B, Japan Law No.112 SOP # 0032 AATCC 112:2020 SOP # 0005 ISO-14184-1:2011 and GB/T 2912-1:2009 SOP # 0006 ISO-14184-2:2011 and GB/T 2912-2:2009 SOP # 0025 (ISO 17226-2: 2019) SOP # 0025a (ISO 17226-1: 2021) SOP # 0025b (GB/T 19941.2-2019)	JIS A: (0.03 to 4.5) abs JIS B: 16 to 3000 mg/kg AATCC 112: 16 to 3500mg/kg ISO-14184-1 and GB/T 2912-1: 16 to 3500 mg/kg ISO-14184-2 and GB/T 2912-2 16 to 3500 mg/kg
36.	Leather	Estimation of Chromium (VI) content	MTS Validated In-House Method/ SOP#0030, Based on DIN 53314	0.5-100 mg/kg LOD: 0.01 mg/L

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			SOP # 0031, Based on EN ISO 17075:1 -2017 EN ISO 17075:2 -2017 ISO 10195: 2018	
37.	Textile accessories/ Leather accessories	Estimation of Nickel Release	MTS Validated In-House Method/ SOP # 0024 (DIN EN 1811:2011+A1:2015 and BS EN 12472:2020) SOP # 0024 (PD CR 12471:2002)	0.05 -10 µg/cm ² /week. LOD: 0.01 mg/L
		Extractable Heavy metals		Range: Pb: 0.1-125 mg/kg. LOD: 1ppb Co: 0.1-125 mg/kg. LOD: 1ppb Cr: 0.1-125 mg/kg. LOD: 1ppb Cr (VI): 0.5-500 mg/kg; LOD:0.01ppb Ni: 0.1-125 mg/kg. LOD: 1ppb Mn: 0.1-125 mg/kg. LOD: 1ppb Cu: 0.5-500 mg/kg. LOD: 5 ppb Ba: 0.5-500 mg/kg. LOD: 5 ppb Sn: 0.5-500 mg/kg. LOD: 5 ppb Zn: 0.5-500 mg/kg. LOD: 5 ppb Se: 0.5-500 mg/kg. LOD: 5 ppb Mg: 0.5-500 mg/kg. LOD: 5 ppb Mo: 0.5-500 mg/kg. LOD: 5 ppb Sb: 0.5-500mg/kg. LOD: 5 ppb Al: 0.5-500 mg/kg. LOD: 5 ppb As: 0.03-50 mg/kg. LOD: 0. 2 ppb Ag: 0.03-50 mg/kg. LOD: 0. 2 ppb Cd: 0.03-50 mg/kg. LOD: 0. 2ppb Hg: 0.005-20 mg/kg; LOD: 0.5ppb
38.	Textile, Garment & Accessories	1. Silver (Ag) 2. Arsenic (As) 3. Cadmium (Cd) 4. Barium (Ba) 5. Tin (Sn) 6. Copper (Cu) 7. Zinc (Zn) 8. Magnesium (Mg) 9. Aluminum 10. Selenium (Se) 11. Molybdenum (Mo) 12. Lead (Pb) 13. Nickel (Ni) 14. Chromium (Cr) 15. Cobalt (Co) 16. Manganese (Mn) 17. Mercury (Hg) 18. Antimony (Sb) 19. Chromium (Cr) VI	MTS Validated In-House Method/ SOP # 0029 (Extraction as per ISO 105E04:2013 & ICPMS; EN 16711-2: 2015(E) ISO 17072-1-2019)	
39.	Textile & accessories including plastic, Print, Liquid, Leather	Determination of APEO/AP content: 1. Octylphenoethoxylates (OPEOs), 2. Nonylphenoethoxylates (NPEOs), 3. Octylphenol (OP) 4. Nonylphenol (NP)	MTS Validated In-House Method/ SOP # 0020 (ISO 18254-1:2016, ISO/DIS 18218-1&2:2015 ISO 21084-2019)	OPEOs: 1-2000 mg/kg LOD: 0.1 mg/L NPEOs: 1-2000 mg/kg LOD: 0.1 mg/L OP: 1-2000 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
				LOD: 0.1 mg/L NP: 1-2000 mg/kg LOD: 0.1 mg/L
40.	Textile Products	Determination of Pentachlorophenol (PCP), Tetrachlorophenol (TeCP), Trichlorophenol (TCP) and Orthophenylphenol (OPP) in Textile	MTS Validated In-House Method/ SOP # 0027 (Solvent Extraction /GCMS) EN17134:2-2023 LFGB §64 B 82.02-8	PCP: 0.05-50 mg/kg LOD: 0.005 mg/L TeCP: 0.05-50 mg/kg LOD: 0.005 mg/L OPP: 0.05-50 mg/kg LOD: 0.005 mg/L
41.	Leather	Determination of Pentachlorophenol (PCP), Tetrachlorophenol (TeCP), Trichlorophenol (TCP) and Orthophenylphenol (OPP) in leather.	MTS Validated In-House Method/ SOP # 0026 (Solvent Extraction /GCMS); EN ISO 17070: 2015. LFGB §64 B 82.02-8	PCP: 0.05-50 mg/kg LOD: 0.005 mg/kg TeCP: 0.05-50 mg/kg LOD: 0.005 mg/kg OPP: 0.05-50 mg/kg LOD: 0.005 mg/kg
42.	Textile & accessories including print on textile	Dimethyl Fumarate	MTS Validated In-House Method/ SOP#0037 (Solvent Extraction /GCMS); ISO 16186-2022.	0.05 – 100 mg/kg LOD: 0.005 mg/L
43.	Textile & accessories including plastic	Determination of Isocyanates Content 1. Hexamethylenediisocyanate (HDI), 2. Isophoronediiisocyanate (IPDI), 3. Tetramethylxylenediisocyanate (TMXDI), 4. Toluene diisocyanate (Mixture of 2,4-TDI & 2,6-TDI), 5. Diphenylmethanediisocyanate (MDI), Naphthalene -1,5, di-isocyanate (15-NDI)	MTS Validated In-House Method/ SOP # 0028: 2016 (Solvent Extraction /GCMS/LCMS)	HDI:1-1000 mg/kg LOD: 0.25 mg/L IPDI:1-1000 mg/kg LOD: 0.25 mg/L TMXDI:1-1000 mg/kg LOD: 0.25 mg/L 2,4-TDI & 2,6 TDI:1-1000 mg/kg, LOD: 0.25 mg/L MDI:1-1000 mg/kg LOD: 0.25 mg/L 1,5 _NDI:1-1000 mg/kg LOD: 0.25 mg/L
44.	Textile & accessories including plastic	Determination Of Organotin Content 1. Monobutyl tin, (MBT) 2. Dibutyl tin, (DBT) 3. Tributyl tin, (TBT) 4. Triphenyl tin, (TPhT) 5. Tetra-butyl tin, (TTBT) 6. Tripropyl tin, (TPT) 7. Mono-octyl tin, (MOT) 8. Dioctyl tin, (DOT) 9. Trioctyl tin, (TOT) 10. Tricyclohexyl tin, (TCyT)	MTS Validated In-House Method/ SOP#0023:2016 (Solvent Extraction /GCMS). CEN ISO/TS 16179:2012. EN ISO 17353: 2005. ISO 22744-1-2020.	MBT: 0.05-100 mg/kg LOD: 0.025 mg/L DBT: 0.05-100 mg/kg LOD: 0.025 mg/L TBT: 0.05-100 mg/kg LOD: 0.025 mg/L TPhT: 0.05-100 mg/kg LOD: 0.025 mg/L TTBT: 0.05-100 mg/kg LOD: 0.025 mg/L TPT: 0.05-100 mg/kg LOD: 0.025 mg/L MOT: 0.05-100 mg/kg LOD: 0.025 mg/L DOT: 0.05-100 mg/kg LOD: 0.025 mg/L TOT: 0.05-100 mg/kg LOD: 0.025 mg/L TCyT: 0.05-100 mg/kg LOD: 0.025 mg/L
45.	Textile, Leather, Garment &	Total Heavy Metal content 1. Silver (Ag)	MTS Validated In-House Method / SOP # 0040	Ag: 5-5000 mg/kg. LOD: 1 mg/kg

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	Accessories	2. Arsenic (As) 3. Cadmium (Cd) 4. Barium (Ba) 5. Tin (Sn) 6. Copper (Cu) 7. Zinc (Zn) 8. Lead (Pb) 9. Nickel (Ni) 10. Chromium (Cr) 11. Cobalt (Co) 12. Mercury (Hg) 13. Chromium (Cr (VI)) 14. Antimony (Sb)	(Acid Digestion/ICP-MS. EN ISO 17072-2 2019. BS EN 16711-1:2015)	As: 5-5000 mg/kg. LOD: 1 mg/kg Cd: 5-5000 mg/kg LOD: 1 mg/kg Ba: 5-5000 mg/kg LOD: 1 mg/kg Sn: 5-5000 mg/kg. LOD: 0.01 mg/kg Cu: 5-5000 mg/kg. LOD: 1 mg/kg Zn: 5-5000 mg/kg. LOD: 1 mg/kg Pb: 5-5000 mg/kg. LOD: 1 mg/kg Ni: 5-5000 mg/kg. LOD: 1 mg/kg. Cr: 5-5000 mg/kg. LOD: 1 mg/kg Co: 5-5000 mg/kg. LOD: 1 mg/kg. Hg: 0.25-5000 mg/kg; LOD: 1 mg/kg. Cr (vi): 5-5000 mg/kg. LOD: 1 mg/kg. Sb: 5-5000 mg/kg; LOD: 1 mg/kg.
46.	Textile, Garment & Accessories	Chlorinated Organic Compounds 1. 2-Chlorotoluene, 2. 3-Chlorotoluene, 3. 4-Chlorotoluene, 4. 2,4-Dichlorotoluene, 5. 2,5-Dichlorotoluene, 6. 2,6-Dichlorotoluene, 7. 3,4-Dichlorotoluene, 8. 2,3,4-Trichlorotoluene, 9. 2,4,5-Trichlorotoluene, 10. 2,3,4,5-Tetrachlorotoluene 11. 2,3,4,6-Tetrachlorotoluene, 12. Pentachlorotoluene, 13. 1,2-Dichlorobenzene, 14. 1,3-Dichlorobenzene, 15. 4-Dichlorobenzene, 16. 1,2,3-Trichlorobenzene, 17. 1,2,4-Trichlorobenzene, 18. 1,2,3,4-Tetrachlorobenzene, 19. 1,2,3,5-Tetrachlorobenzene 20. 1,2,4,5-Tetrachlorobenzene, 21. Pentachlorobenzene, 22. Hexachlorobenzene,	MTS Validated In-House Method / (Solvent Extraction /GCMS) SOP # 0049 (DIN 54232 & BS EN 17137-2018)	0.25-50mg/kg LOD: 0.025mg/L
47.	Textile, Garment & Accessories	Brominated Flame Retardants	MTS Validated In-House Method / (Solvent Extraction /GCMS) SOP # 0050 (ISO 17881-1:2016)	2.5-250mg/kg LOD: 0.1 mg/L
48.	Textile, Garment & Accessories	Phosphorous Flame Retardants	MTS Validated In-House Method / (Solvent Extraction /LCMS)	Range: 2.5-250mg/kg LOD: 0.1 mg/L

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			SOP # 0051 (ISO 17881-2:2016)	
49.	Textile, Garment & Accessories	Triclosan	MTS Validated In-House Method / (Solvent Extraction /GCMS) SOP # 0048	Range: 0.1-10mg/kg LOD: 0.05 mg/L
50.	Textile, Garment & Accessories	Determination Of Solar UV Protective Properties- Method for Textile Fabrics	SOP#0057, EN 13758 – 1:2002 GB/T 18830-2002 AS/NZS 4399 :1996 BS 8466 :2006 SOP#0058 AATCC 183-2020	UVA: 315-400 UVB: 280-315 UVR: 280-400 UPF up to 1000
51.	Textile, Garment & Accessories including plastic	Determination of Bisphenol A, Bisphenol B, Bisphenol F, Bisphenol S and Bisphenol AF	MTS Validated In-House Method SOP#0055 (Solvent Extraction /LCMS or LCMSMS)	0.01-100 mg/kg LOD: 0.01 mg/L
52.	Textile, Garment & Accessories	Determination of N, N-Dimethyl Formamide (DMFA)	MTS Validated In-House Method / SOP # 0052 (ISO 16189: 2021), BS EN 17131: 2019	1-5000 mg/kg. LOD: 0.5 mg/L
53.	Textile, Garment & Accessories	Chlorinated Paraffins (MCCP)(C14-C17) (SCCP)(C10-C13)	SOP#0067, 68 ISO18219-1:2021, ISO 18219-2:2021 (Liquid Extraction followed by LC-MSMS); ISO 22818:2021 (by GC-NCI-MS)	5.0-1000 mg/L LOD: 5.0 mg/L
54.	Coating, plastic, leather and textile material etc.	Determination of Total Fluorine Content by Combustion Ion Chromatography	SOP: 066 ASTM D7359-23. Standard test method for total followed by Ion Chromatography Detection (Combustion Ion Chromatography-CIC) & BS EN 14582:2016	2 mg/L to 350 mg/L
55.	Textile materials (fibers, yarns, fabrics, Leather) and coated fabrics	Determination of (PFAS) substances	SOP: 064 & 065 Ref. ISO 17681-1&2:2022, EN ISO 23702-1:2023, CEN/TS 15968 8/2010-BY LCMSMS & GCMS	0.003 mg/kg to 500 mg/kg LOD: 0.003 mg/kg
56.	Wastewater & Sludge	pH Value	SOP#0063 Based on ref.-USEPA 150.1 APHA SM 4500-H+ B. 23rd (2017) & USEPA 150.14, EPA SW 9045D	0-14
57.	Wastewater	Temperature (°C)	SOP#0064 Based on ref. USEPA 170.1 APHA SM 2550 B, 23rd (2017)	1°C to 50°C
58.	Wastewater	Colour [m-1] (436nm; 525; 620nm)	SOP#0065 Based on ref. ISO 7887-B: 2011	0.02 m ⁻¹ to 10 m ⁻¹
59.	Wastewater	Persistent Foam	Visual	Qualitative
60.	Wastewater	Biochemical Oxygen Demand 5-days concentration (BOD)	SOP#0066 Based on ref. ISO 5815-1 USEPA 405.1(5 Days) APHA SM 5210-B (5 Days)	2-500 mg/L LOD: 1 mg/L
61.	Wastewater	Chemical Oxygen Demand (COD)	SOP#0067 Based on ref. USEPA 410.4 APHA SM 5220 D	5-2000 mg/L LOD: 5 mg/L

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62.	Wastewater	Oil & Grease	SOP#0068 Based on ref. APHA 5520 B USEPA 1664	0.5-500 mg/L LOD: 0.5 mg/L
63.	Wastewater	Total Nitrogen	SOP#0069 Based on ref. USEPA 351.2 APHA 4500 P-J, APHA 4500 N-C	0.5-100 mg/L LOD: 0.25 mg/L
64.	Wastewater	Total Dissolved Solids (TDS)	SOP#0070 Based on ref. APHA 2540-C 23 RD (2017), USEPA 160.1	5-500 mg/L LOD: 1 mg/L
65.	Wastewater	Total Suspended Solids (TSS)	SOP#0071 Based on ref. USEPA 160.2 APHA 2540 D	5-500 mg/L LOD: 1 mg/L
66.	Wastewater	Total Phosphorus	SOP#0072 Based on ref. USEPA 365.4 APHA 4500 P	0.1-50 mg/L LOD: 0.1 mg/L
67.	Wastewater & Sludge	Cyanide, total	SOP#0073 Based on ref. USEPA 335.2, USEPA 9013, APHA 4500-CN EPA 9014/ EPA 9213	Wastewater: 0.05-20 mg/L LOD: 005 mg/L Sludge: 1-50 mg/kg LOD: 1 mg/kg
68.	Wastewater	Sulfide	SOP#0074 Based on ref. APHA 4500-S2-D	0.01-10.0 mg/L LOD: 0.01 mg/L
69.	Wastewater	Ammonium-Nitrogen	SOP#0075 Based on ref. USEPA 350.3 APHA 4500 NH3-D USEPA 350.1	0.2-100 mg/L LOD: 0.1 mg/L
70.	Wastewater & Sludge	Total heavy metal	SOP#0076 Based on ref. USEPA 200.8, USEPA 6010c, USEPA 6020a APHA 3030 & USEPA 3052, EPA 245.1, EPA 245.7	Wastewater: Pb, Cd, As, Hg, Sb, Ba, Se, Sn, Cr, Cu, Ni, Ag, Zn, Co: 0.0001-5000mg/L, LOD: 0.0001mg/L Sludge: Pb, Cd, Cr, As, Ag, Sb, Se, Ni, Zn, Hg, Co, Cr, Cu, Ba: 0.0001- 5000mg/kg, LOD: 0.0001mg/kg
71.	Wastewater & Sludge	Chromium (VI)	SOP#0077 Based on ref. APHA 3500 Cr (VI) B. 23rd (2017) & 3060a USEPA 218.6	Wastewater: 0.001-20 mg/L LOD: 0.001 mg/L Sludge: 1-20 mg/kg LOD: 1 mg/kg
72.	Wastewater & Sludge	Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)	ISO 18857-2, ISO 18254-1 ASTM D7065	Wastewater: 5- 10000µg/L LOD: 5µg/L Sludge: 0.4-1000 mg/kg LOD: 0.4mg/kg
73.	Wastewater & Sludge	Chlorobenzenes and Chlorotoluene	SOP#0078 Based on ref. USEPA 36580 8260D, 8270E. DIN 54232:2010& BS EN 17137:2018 (Dichloromethane Extraction followed by GC/MS)	Wastewater: 0.2- 10000µg/L LOD: 0.2µg/L Sludge: 0.2-10000 mg/kg LOD: 0.2 mg/kg
74.	Wastewater & Sludge	Chlorophenols	SOP#ERF_ENV-05 Based on ref. USEPA 8270E BS EN 12673:1999, ISO	0.5-10000µg/L LOD: 0.5µg/L

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			14154:2005	
75.	Wastewater & Sludge	Brominated & Phosphorous Flame Retardants	SOP#0080 Based on ref. USEPA 8270E, USEPA 527 & USEPA 8321 B Dichloromethane Extraction followed by GC/MS or LC-MS-MS	5-1500 µg/L LOD: 5µg/L
76.	Wastewater & Sludge	Organotin Compounds	SOP#0081 Based on ref. ISO 17353, Derivatization with NaB (C2H5) GC-MS	0.01-10000µg/L LOD: 0.01µg/L
77.	Wastewater & Sludge	Azo dyes	SOP#0082 Based on ref. BS EN 14362-1:2017, BS EN 14362-3:2017, EPA 8270	0.1-1500µg/L, LOD: 0.1 µg/L
78.	Wastewater & Sludge	Disperse Dyes & Carcinogenic Dyes	SOP#0083 Inhouse method (Liquid extraction, LC-MS)	10-1000 µg/L LOD: 10 µg/L
79.	Wastewater & Sludge	Polycyclic Aromatic Hydrocarbons (PAHs)	SOP#0084 Based on ref. USEPA 8270; DIN 38407-39, USEPA 3540/3541, USEPA 3550, USEPA 3650 Solvent Extraction GC-MS	Wastewater: 1-1000µg/L LOD: 1 µg/L Sludge: 0.1-1000mg/kg LOD: 0.1mg/kg
80.	Wastewater & Sludge	PFCs and Related substances	SOP#0085 Based on ref. EPA 537:2020 FTOH: BS EN 12673-1999, EPA 8270, PFCs: LC-MSMS FTOH: GC-MS Derivatization with acetic anhydride followed by GC-MS	0.01-100 µg/L LOD: 0.01 µg/L
81.	Wastewater & Sludge	Phthalates	SOP#0086 Based on ref. US EPA 8270E, ISO 18856, Dichloromethane Extraction GC-MS	0.5-100 µg/L LOD: 0.5 µg/L
82.	Wastewater	VOCs & Halogenated Solvents 1,1-Dichloroethane Methyl-ethyl ketone /2-butanone Chloroform 2-Phenyl-2-propanole/ a,a-Dimethylbenzyl alcohol Benzene Trichloroethylene Toluene 1,1,2-Trichloroethane Perchloroethylene Xylene(mixed)+ethylbenzene Cyclohexanone 1,2,3- Trichloropropane Acetophenone o-cresol / 2-Methylphenol p-cresol / 4-Methylphenol Dichloromethane / Methylene chloride Tetrachloromethane / Carbontetrachloride 1,2-Dichloroethane 1,1,1,2-Tetrachloroethane Ethylbenzene	SOP#0087 (Based on USEPA 8260D, In House Method)	1-1000µg/L, LOD: 1.0µg/L

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		Styrene 1,1,2,2-Tetrachloroethane m-cresol / 3-Methylphenol		
83.	Wastewater & Sludge	Dimethylformamide (DMFa), N, N-Dimethylacetamide (DMAC), n-Methyl-2-Pyrrolidinone (NMP) & N-Ethylpentadecane (NEP), Formamide (FA),	SOP#0088 (Based on EPA 8015, EPA 8270E)	DMFa & NMP 1-100 mg/L. LOD: 1mg/L DMAC & FA 10-100 mg/L. LOD: 10mg/L
84.	Wastewater & Sludge	Other / Miscellaneous Chemicals 1. AEEA [2 (2amonoethylamino) ethanol] 2. Quinoline 3. Zinc Borate salt 4. Silica	SOP#0093-1 (ZDHC Wastewater Guidelines, Version-2.1) EPA8270, Liquid-Liquid Extraction followed by LC-MS/MS SOP Zinc Borate followed by ICP	5.0-1000µg/L, LOD: 5 µg/L
85.	Wastewater & Sludge	1.Bisphenol A 2.Thiourea	SOP#0093-1 (ZDHC Wastewater Guidelines, Version-2.1) EPA8270, Liquid-Liquid Extraction followed by LC-MS/MS.	1.0-1000µg/L, LOD: 1 µg/L
86.	Wastewater	UV Absorbers	SOP#0096 (ZDHC Wastewater Guidelines, Version-2.1) USEPA 8270, ISO 22032, USEPA 527, USEPA8321B)	10-1000 µg/L LOD:1.0 µg/L
87.	Wastewater & Sludge	Anti – Microbials & Biocides O-Phenyl Phenol (+salts)	SOP#0090 (ZDHC Wastewater Guidelines, Version-2.1) Inhouse method (Liquid extraction, LC-MS) LFGB.82.02-8, USEPA 8270E, ISO17070:2015&BSEN 12637-1999	10-1000 µg/L LOD: 10 µg/L
88.	Wastewater & Sludge	Triclosan	SOP#0094 (ZDHC Wastewater Guidelines, Version-2.1) USEPA8270E, BS EN 12673-1999, Liquid-Liquid Extraction followed by GC-MS	5.0-1000µg/L, LOD: 5 µg/L
89.	Wastewater & Sludge	Permethrin	SOP#0089 (ZDHC Wastewater Guidelines, Version-2.1) EPA8270, Liquid-Liquid Extraction followed by LC-MS/MS SOP USEPA 8270E Solvent extraction, followed by GC-MS ISO 14154:2005	10.0-1000µg/L, LOD: 10 µg/L
90.	Wastewater & Sludge	Dyes-Navy Blue Colorants	SOP#0083 Inhouse method (Liquid-Liquid extraction, LC-MS)	10-500 µg/L LOD: 10 µg/L
91.	Wastewater	Glycols/Glycol Ethers	SOP#0095 (ZDHC Wastewater Guidelines, Version-2.1)	10-10000 µg/L LOD: 10 µg/L

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92.	Wastewater	Chlorinated Paraffins (MCCP)(C14-C17) (SCCP)(C10-C13)	Version-2.1) US EPA8270, Liquid Extraction followed by GCMS SOP#0095 (ZDHC Wastewater Guidelines, Version-2.1) EPA 3510, ISO18219-1:2021, ISO 18219-2:2021(Liquid Extraction followed by LC-MSMS)	5.0-1000 µg/L LOD: 5.0 µg/L
93.	Wastewater	Dissolved Oxygen (DO)	SOP#0097 Based on ref. APHA 4500-0-G, H,23rd (2017), EPA 360.1	0.5mg/L to 50.0mg/L
94.	Wastewater	Total Chlorine	SOP#0098 Based on ref. APHA 4500-Cl-B,23rd (2017), EPA 330.5	1 mg/L to 100 mg/L
95.	Sludge	% Solids	SOP#0099 APHA 2540 B 23rd (2017) & USEPA 160.3	1 to 100%
96.	Sludge	Paint Filter Test	EPA 9095 B	Qualitative
97.	Wastewater	Chloride in wastewater	SOP#0100 (ZDHC Wastewater Guidelines, Version-2.1) Based on ref. APHA 4500-Cl-B,23rd (2017), USEPA 300	0.2mg/L to 100 mg/L
98.	Wastewater	Sulfate in wastewater	SOP#0101 (ZDHC Wastewater Guidelines, Version-2.1) Based on ref. APHA 4500-SO4 E,23rd (2017), USEPA 300 & USEPA 9038	0.02mg/L to 800 mg/L
99.	Wastewater	Sulfite in wastewater	SOP#0102 (ZDHC Wastewater Guidelines, Version-2.1) Based on ref. APHA 4500-SO3 2-B,23rd (2017), USEPA 377.1	0.2mg/L to 100 mg/L
100.	Wastewater	AOX	USEPA 1650	0.1 mg/L to 500 mg/L
101.	Wastewater	Total Phenol	APHA 5530 B, C & D 23rd (2017) EPA 420.1	0.001 mg/L to 5mg/L

END


Quality Manager