



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

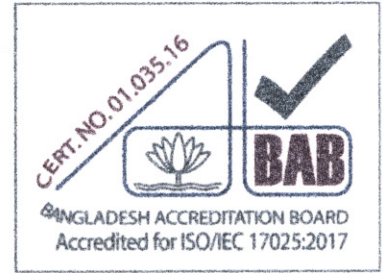
Testing Laboratory

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 : **29 May 2023**
Date of Expiration : **26 June 2026**




Md. Monwarul 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

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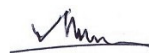
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Valid until: 26 June 2026

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 and Textile Products	Breaking Strength & Elongation (Grab Method)	ASTM D5034:2021	20 N to 4500 N (4.5 lb – 1011 lb) 5% to 30%
		Maximum Force & Elongation (Strip Method)	ASTM D5035:2019 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 and Textile Products	Tear Strength (Elmendorf type)Tear Force (Elmendorf type)	ASTM D1424:2021 ISO 13937-1:2000	2 N to 62 N (0.4 lb to 14 lb)
3	Textile and Textile Products	Dimensional Change in Washing and Drying -Preparation	ISO 3759:2011 GB/T 8628:2013 SASO ISO3759:2011	- 30.0% to + 30.0%
		Washing & Drying Procedure	ISO 6330:2021 GB/T 8629:2017	
		Determination of Dimensional Change	ISO 5077:2007 GB/T 8630:2013 SASO 2140:2003	
		Dimensional Change After Home Laundering Fabric / Garment	AATCC 135:2018 AATCC 150:2018	
4	Textile and Textile Products	Skewness Change After Home Laundering	AATCC 179:2019	- 30.0% to + 30.0%
		SpiralityAfter Laundering: Knitted Garments	ISO 16322-1:2005	
		Woven and Knitted Fabrics	ISO 16322-2:2021	
		Woven and Knitted Garments	ISO 16322-3:2021	
5	Textile and Textile Products	Appearance After Repeated Home Laundering	AATCC 143:2018	Qualitative Grade 1 to 5
		Appearance After Domestic Washing & Drying	ISO 15487:2018	
6	Textile and Textile Products	Mass Per Unit Area	ISO 3801:1977 (Method-5) BS EN 12127:1998 ASTM D3776M:2017 SASO 1938:2001 Method 5	20 GSM to 600 GSM


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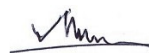
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7	Textile and Textile Products	Maximum Force to Seam Rupture (Grab Method) Seam Strength of Woven Apparel Fabric	ISO 13935-2:2014 ASTM D1683M:2022	20 N to 4500 N (5 lb – 900 lb)
8	Textile and Textile Products	Slippage Resistance of Yarns at a Seam 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 D 434:1995	20 N to 4500 N
9	Textile and Textile Products	Bursting Strength (Diaphragm/ Hydraulic Method) Pneumatic Method	ISO 13938-1:2019 ASTM D 3786M:2018 ISO 13938-2:2019	100 kPa to 2000 kPa (14.5 psi to 290 psi)
10	Textile and Textile Products	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 D 3512:2022 ISO 12945-4:2020	Qualitative Grade 1 to 5
11	Textile and Textile Products	Abrasion Resistance of Fabric (Martindale method) Specimen Break Down Mass Loss Appearance	ISO 12947 (Part 2):2016 ASTM D 4966:2022 Opt:1 ISO 12947 (Part 3):1998 ASTM D 4966:2022 Opt:3 ISO 12947 (Part 4):1998 ASTM D 4966:2022 Opt:2	16 to 99999 cycle 0.1 g – 1 g Qualitative Grade 1 to 5
12	Textile and Textile Products	Mace Snagging Test	ASTM D3939:2017 GB/T 11047:2008 JIS L 1058:2021	Qualitative Grade 1 to 5
13	Textile and Textile Products	Determination of Fabric Propensity to Surface fuzzing and to Pilling, Part 1: Circular Locus Method	GB/T 4802.1:2008	Qualitative Grade 1 to 5


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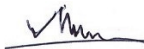
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14	Textile and Textile Products	Stretch & Recovery: Strip Test Stretch Properties of Woven Fabrics Stretch Properties of Knitted Fabric	BS EN 14704-1:2005 EN ISO 20932-1:2020 BS EN 14704-3:2006 EN ISO 20932-3:2020 ASTM D 4964:2020 ASTM D 3107:2019 ASTM D 2594:2021	Up to 200%
15	Textile and Textile Products	Thread Per Unit Length (Fabric Count) Woven Fabric Knitted Fabric	ISO 7211-2:1984 ASTM D3775:2017 SASO 183/ GS 1269:2002 BS 5441:1988 ASTM D3887:2008	10 to 150 thread/cm (25 to 380 threads per inch)
16	Textile and Textile Products	Linear Density of Yarn Removed From Fabric	ISO 7211-5:2020 Method A ASTM D1059:2022	5 tex to 100 tex (6 Ne to 118 Ne)
17	Textile and Textile Products	Water Repellency (Resistance to Surface Wetting– Spray Test)	ISO 4920:2012 AATCC 22: 2017	Rating: 0 to 5 Rating: 0-100
18	Textile and Textile Products	Flammability of Clothing Textiles	16 CFR Part 1610:2022 ASTM D 1230:2022 CAN/CGSB 4.2 no 27.5:2023	Qualitative Class 1 to 3
19	Textile and Textile Products	Flammability of Children's Sleepwear: sizes 0 through 6X (FF 3–71)	16 CFR Part 1615:2022	Char Length : 0.5 cm to 25.4 cm (0.2 inch to 10 inch)
20	Textile and Textile Products	Flammability of Children's Sleepwear: sizes through 14 (FF 5–74)	16 CFR Part 1616:2022	Char Length : 0.5 cm to 25.4 cm (0.2 inch to 10 inch)
21	Textile and Textile Products	Burning Behavior on Children Nightwear	BS EN ISO 6941:2003 BS EN 14878:2007 BS EN 1103:2005	0.1 second - 90 second
22	Textile and Textile Products	Flammability Performance of Fabrics Used in Sleepwear Specification	BS 5722:1991 BS 5438:1989	0.1 second- 90 second
23	Textile and Textile Products	Ignitability (Surface Flash) of Pile Fabrics	BS 4569:1983	Qualitative


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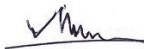
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24	Textile Accessories	Tension Test	16 CFR 1500.51-53:2021 ASTM F 963 (Cl. 8.9) :2017	Qualitative
25	Textile Accessories	Torque Test	16 CFR 1500.51-53:2021 ASTM F 963 (Cl. 8.8) :2017	Qualitative
26	Textile Accessories	Sharp Point Test Accessible Points	16 CFR 1500.48:2021 ASTM F 963 (Cl. 4.9) :2017	Qualitative
27	Textile Accessories	Sharp Edge Test Accessible Edges	16 CFR 1500.49:2021 ASTM F 963 (Cl. 4.7) :2017	Qualitative
28	Textile Accessories	Small Parts Test (Chocking Hazard) Small Objects (Chocking Hazard)	16 CFR Part 1501:2021 ASTM F 963 (Cl. 4.6) :2017	Qualitative
29	Textile Accessories	Cords and Drawstrings on Children's Clothing	ASTM F1816:2018 BS EN 14682:2014	Qualitative
30	Textile Accessories	Safety of toys - Part 1: Mechanical and Physical Properties	EN 71-1:2014+A1:2018 (section: 8.2, 8.3, 8.4, 8.11, 8.12)	Qualitative
31	Textile Accessories	Impact Resistance of Plastic Sew- Through Flange Buttons	ASTM D 5171:2020	Qualitative
32	Textile Accessories	Zipper Performance Test	ASTM D2061:2021 ASTM D2062:2021 BS 3084:2006 DIN 3419-1:1998 BS EN 16732:2015	20 N to 4500 N
33	Textile Accessories	Safety of Children's Clothing	CEN/TR 16792:2014 BS 7907:2007 Annex B	20 N to 4500 N
34	Textile Accessories	Safety of Children's Clothing Specifications	CEN/TS 17394-1:2021	Qualitative
		Security of Attachment of Buttons	EN 17394-2:2020	20 N to 4500 N
		Attachment Strength of Other Metallic Components Other Than Fasteners	CEN/TS 17394-3:2021	20 N to 4500 N
		Security of Attachment of Components Except Buttons and Metal Mechanically Applied Press Fasteners	CEN/TS 17394-4:2021	Qualitative


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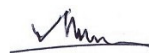
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35	Textile and Textile Products	Fabric Width	ISO 3932:1976 ASTM D3774:2018 ISO 22198:2006	10 cm to 500 cm
36	Textile and Textile Products	Fabric Thickness	BS EN ISO 5084:1997 ASTM D1777:2019	0.1 mm to 12 mm
37	Textile and Textile Products	Print Durability	In-house Work Instruction(MS-0045605)	Qualitative Grade 1 to 5
38	Textile and Textile Products	Soil Release: Oily Stain Release	AATCC 130:2018	Qualitative Grade 1 to 5
39	Textile and Textile Products	Hydrostatic Pressure Test	ISO 811:2018 EN 20811:1992 AATCC 127:2018	1 mbar to 10000 mbar
40	Textile and Textile Products	Solar UV Protection Properties	EN 13758-1:2001+A1:2006 EN 13758-2:2003+A1:2006 AATCC 183:2020	280 nm-400 nm
41	Footwear Products	Fatigue Test for Shoe Heels Heels- Fatigue Resistance	SATRA TM21:2017 ISO 19956:2004	1 to 9,99,99,999 Blows
42	Footwear Products	Lateral Impact Test for Shoe Heels Resistance of Heels of Ladies' Shoes to Lateral Impact	SATRA TM20:2017 BS 5131: Section 4.8,1990	0.5 J to 19 J 0.68 J to 18.3 J
43	Leather and Footwear Products	Abrasion Resistance- Martindale Method Uppers, Linings and Insocks — Abrasion Resistance Uppers, Lining and Insocks - Abrasion Resistance	SATRA TM31:2021 ISO 17704:2004 BS EN 13520:2004	Qualitative Grade 1 to 5
44	Footwear Products	Bennewart Flex Test- Resistance to Cut Growth on Flexing. Outsoles - Flex Resistance	SATRA TM161:2004 BS EN ISO 17707:2005	0.1 mm - 20 mm
45	Leather and Footwear Products	Flexing Resistance of Upper Materials- Bally Flexometer	SATRA TM55:1999	Qualitative
46	Footwear Products	Ross Flex Test- Resistance to Cut Growth on Flexing	SATRA TM60:2020	0.1 mm - 20 mm


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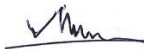
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47	Footwear Accessories	Shoe Lace to Shoe Lace and Shoe Lace to Lace Carrier Abrasion Shoe Laces- Abrasion Resistance	SATRA TM154:2018 ISO 22774:2004	Qualitative
48	Leather and Footwear Products	Resistance to Water Penetration- Maeser Test	SATRA TM34:2019	Qualitative
49	Leather and Footwear Products	Thickness of Leather and Insole Materials	SATRA TM1:2021	0.01 mm -10 mm
50	Leather and Footwear Products	Rubber, Vulcanized or Thermoplastic- Determination of Compression Set	ISO 815-1:2019	1 mm-100 mm
51	Footwear Products	Resistance of Footwear to Flexing	SATRA TM92:2016	Qualitative
52	Leather and Footwear Products	Hardness of Rubber, Polyurethane and Plastics- Durometer Method	SATRA TM205:2017	1-100 Shore A 1-100 Shore D 1-100 Shore OO
53	Leather and Footwear Products	Density of Materials by Volume Displacement	SATRA TM134:2010	0.001 gm/cm ³ - 9.999 gm/cm ³
54	Leather and Footwear Products	Abrasion Resistance- Rotating Drum Method	SATRA TM174:2016	1 mm ³ -1000 mm ³
55	Leather and Footwear Products	Lastometer Ball Burst Test	SATRA TM24:2017	100 Kgf (980.7 N) 250 Kgf (2451.7 N)
56	Leather and Footwear Products	Whole Shoe - Upper Sole Adhesion Peel Strength of Footwear Sole Bonds Peel Strength of Bottom Constructions in Complete Footwear	ISO 17708:2018 SATRA TM411:2023 SATRA TM281:2002	100 Kgf (980.7 N) 250 Kgf (2451.7 N)


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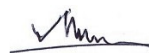
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57	Leather and Footwear Products	Tear Strength	SATRA TM30:2017 SATRA TM162:2017	100 Kgf (980.7 N) 250 Kgf (2451.7 N)
58	Footwear Products	Dimensional Measurements of Plastic Heels	SATRA TM19:2001	0.5 mm-300 mm
59	Leather and Footwear Products	Tensile Strength and Extension at Break of Leather	SATRA TM43:2021	100 Kgf (980.7 N) 250 Kgf (2451.7 N)


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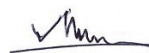
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Field: Chemical Testing				
1	Textile, Textile Products and Accessories	Colorfastness to Light	AATCC 16.3:2020 ISO 105 B02:2014 GB/T 8427:2008	Qualitative Grade 1 to 5 BWS Rating 1 to 8
2	Textile, Textile Products and Accessories	Colorfastness to Saliva	DIN 53160-1:2010 DIN 53160-2:2010 GB/T 18886:2002	Qualitative Grade 1 to 5
3	Textile, Textile Products and 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 and Textile Products	Colorfastness to Rubbing	ISO 105 X12:2016 BS EN ISO 105 X12:2016 AATCC 8:2022 GB/T 3920:2008 SASO 2330:2005	Qualitative Grade 1 to 5
5	Textile and Textile Products	Colorfastness to Rubbing (Rotary Vertical Crock meter Method)	ISO 105-X16:2016 AATCC 116:2022	Qualitative Grade 1 to 5
6	Textile, Textile Products and 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, Textile Products and Accessories	Colorfastness to Water	AATCC 107:2022 ISO 105 E01:2013 GB/T 5713:2013	Qualitative Grade 1 to 5
8	Textile, Textile Products and Accessories	Colorfastness to Sea Water	AATCC 106:2013 ISO E02:2013	Qualitative Grade 1 to 5


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9	Textile, Textile Products and Accessories	Colorfastness to Light & Perspiration	ISO 105 B07:2009 AATCC 125:2020	Qualitative Grade 1 to 5 BWS Rating 1 to 8
10	Textile and Textile Products	Colorfastness to Dry Cleaning	ISO 105 D01:2010 AATCC 132:2013 GB/T 5711:2015 SASO 2324:2005	Qualitative Grade 1 to 5
11	Textile and Textile Products	Fiber Analysis	ISO 1833-1:2020 ISO 1833-3:2019 ISO 1833-4:2017 ISO 1833-6:2018 ISO 1833-7:2017 ISO 1833-11:2017 ISO 1833-12:2019 ISO 1833-20:2018 AATCC20:2021 AATCC20A:2021 GB/T 2910.1:2009 GB/T 2910.5:2009 GB/T 2910.7:2009 GB/T 2910.11:2009 GB/T 2910.20:2009 SASO 781/GS 431:1994	Quantitative 0.1 to 100%
12	Textile and Textile Products	Colorfastness to Phenolic Yellowing	ISO 105 X18:2007	Qualitative Grade 1 to 5
13	Textile and Textile Products	Colorfastness to Dye Transfer	AATCC 163:2020	Qualitative Grade 1 to 5
14	Textile and Textile Products	Colorfastness to Chlorinated water	ISO 105 E03:2010 AATCC 162:2011	Qualitative Grade 1 to 5
15	Textile, Textile Products and Accessories	Colorfastness to Assessment of migration of textile colors into PVC coatings	BS EN ISO105-X10:1996 ISO 105-X10:1993	Qualitative Grade 1 to 5
16	Textile and Textile Products	Colorfastness to Hot Pressing	BS EN ISO105-X11:1996 ISO 105-X11:1994	Qualitative Grade 1 to 5
17	Textile and Textile Products	Colorfastness to Chlorine and Non chlorine	AATCC/ASTM TS001	Qualitative Grade 1 to 5
18	Textile and Textile Products	Odor Test	GB 18401-6.7:2010 SNR 195651:1968	Qualitative Grade 1 to 6


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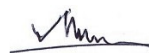
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19	Textile and Textile Products	Colorfastness to Ozone	AATCC 109:2016 ISO 105 G03:1993	Qualitative Grade 1 to 5
20	Textile and Textile Products	Absorbency of Textiles	AATCC 79:2018	1 sec to 60 sec
21	Textile and Textile Products	Vertical Wicking of Textiles (Specified Distance)	AATCC 197:2022	0.1 mm to 200 mm
22	Leather and Leather Products	Colorfastness to Rubbing- crock meter test	SATRA TM 167:2017	Qualitative Grade 1 to 5
23	Leather and Leather Products	Colorfastness to Rubbing- Reciprocating Method	SATRA TM 173: 2021	Qualitative Grade 1 to 5
24	Leather and Leather Products	Colorfastness to Cycles of to-and- fro Rubbing	EN ISO 11640:2018	Qualitative Grade 1 to 5
25	Leather and Leather Products	Colorfastness to Light from a xenon arc	SATRA TM 160:1992	Qualitative Grade 1 to 5 BWS Rating 1 to 8
26	Leather and Leather Products	Colorfastness to Water Spotting	SATRA TM 185:2021 BS EN ISO 15700:1999	Qualitative Grade 1 to 5
27	Leather and Leather Products	Colorfastness to Water	BS EN ISO 11642:2012	Qualitative Grade 1 to 5
28	Leather and Leather Products	Colorfastness to Water or Perspiration	SATRA TM 335:2018	Qualitative Grade 1 to 5
29	Leather and Leather Products	Colorfastness to Perspiration	BS EN ISO 11641:2012	Qualitative Grade 1 to 5


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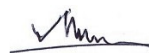
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30	Textile, Textile Products and Accessories	Azo Dyes(Banned Amines) 1) 4-Aminobiphenyl 2) Benzidine 3) 4-Chloro-O-Toluidine 4) 2-Naphthylamine 5) O-Aminoazobenzene 6) 5-Nitro-o-toluidine 7) 4-Chloroaniline 8) 2,4'-Diaminoanisole 9) 4,4'-Diaminodiphenyl 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 25) Aniline 26) 1,4 Phenylenediamine 27) 4-Chloro-o-toluidinium chloride 28) 2,4,5-Trimethylaniline 29) Hydrochloride 30) 2-Naphthylammoniumacetate 31) 2,4-Diaminoanisole sulphate	EN ISO 14362-1:2017 EN ISO 14362-3:2017 GB/T 17592:2011 GB/T 23344:2009 In House Work Instruction MS-0045482	(5 - 1000) mg/kg


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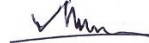
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
31	Textile, Textile Products and Accessories	Phthalates 1) DBP: Dibutyl Phthalate 2) DIBP: Di-Isobutyl 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-isopentyl 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)	CPSC-CH-C1001-09.4:2018 EN ISO 14389:2022 GB/T 20388:2016 EN 14372:2004 In House Work Instruction MS-0045485	(10 - 20000) mg/kg


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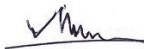
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32	Textile, Textile Products and Accessories	Nickel Release in Metal/Alloy	EN 1811:2023 EN 12472:2020 In House Work Instruction MS-0045474	(0.02 - 1000) µg/cm ² /week
33	Textile, Textile Products and Accessories	Nickel Spot	CR 12471:2022	
34	Textile, Textile Products and Accessories	Lead in Surface Coating	CPSC-CH-E1003-09.1: 2011 16 CFR Part 1303:2011; ILNAS-EN 16711-1:2015 EN 16711-3:2019 In House Work Instruction MS-0045476	(10 - 10000) mg/kg
35	Textile, Textile Products and Accessories	Lead in Nonmetal Children product	CPSC-CH-E1002-8.3: 2012 ILNAS-EN 16711-1:2015 EN 16711-3:2019 In House Work Instruction MS-0045475	(10 - 10000) mg/kg
36	Textile, Textile Products and Accessories	Total Lead in children metal products and children metal jewelry	CPSC-CH-E1001-08.3: 2012, ILNAS EN 16711-1 :2015, EN 16711-3:2019 In House Work Instruction MS-0045477	(10 - 10000) mg/kg
37	Textile, Textile Products and Accessories	Cadmium in Plastic & Metal accessories	EN-1122:2002, ILNAS EN 16711-1 :2015 In House Work Instruction MS-0045478	(10 - 10000) mg/kg
38	Textile, Textile Products and Accessories	Alkyl Phenyl (AP) & Alkyl Phenylethoxylates (APEO) 1) 4-n-Nonylphenol 2) NP Technical 3) 4-n-OP 4) 4-tert-OP 5) NPEO 6) OPEO	ISO 18254-1:2016 ISO 21084:2019 In House Work Instruction MS-0045487	(2 -10000) mg/kg


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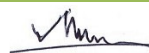
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39	Textile, Textile Products and Accessories	Chlorinated Phenols and Orthophenyl phenol 1) 2,4,6 – Trichlorophenol 2) 2,3,5 – Trichlorophenol 3) 2,3,6 – Trichlorophenol 4) 2,4,5 – Trichlorophenol 5) 3,4,5 – Trichlorophenol 6) 2,3,4 – Trichlorophenol 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) 25) Phenol	LFGB § 64 BVL B 82.02.8:2001 GB/T 18414-1:2006 DIN 50009:2021 In House Work Instruction MS-0045486	(0.05-1000) mg/kg
40	Textile, Textile Products and Accessories	Organotin 1) Dimethyltin chloride (DMeTCL) 2) Trimethyltin chloride (TMeTCL) 3) Methyltintrichloride (MeTCL) 4) Dipropyltin chloride (DProTCL) 5) Monobutyltin chloride (MBTCL) 6) Dibutyltin chloride (DBTCL) 7) Tri-n-Propyl tin (TnPT) 8) Tributyltin chloride (TBTC)	ISO/TS 16179:2012 In House Work Instruction MS-0045489	(0.005-1000) mg/kg


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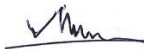
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		9) Monooctyltin (MOT) 10) Tetrabutyltin (TeBT) 11) Diphenyltin dichloride (DPhTCL) 12) Dioctyltin dichloride (DOT) 13) Triphenyltin chloride (TriphTCL) 14) Tricyclohexyltin chloride (TricycloTCL) 15) Trioctyltin (TOT)		
41	Textile, Textile Products and Accessories	Migration of certain elements 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	EN 71-3:2021 ASTM F963-2017 EN 1388-1 & 2:1995; DIN 51032:2017; In House Work Instruction MS-0045481	(0.05-1000) mg/kg
42	Textile, Textile Products and Accessories	Extractable Heavy metals 1) Antimony 2) Arsenic 3) Cadmium 4) Chromium 5) Cobalt 6) Copper 7) Lead 8) Manganese 9) Mercury	ILNAS EN 16711-2:2015 ISO 104 E 05: 2013 In House Work Instruction MS-0045479	(0.01-1000) mg/kg


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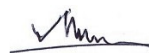
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		10) Nickel 11) Selenium 12) Barium		
43	Textile, Textile Products and Accessories	Dimethyl fumarate	ISO/TS 16186:2021 In House Work Instruction MS-0045494	(0.05-1000)mg/kg
44	Textile, Textile Products and Accessories	Determination of formaldehyde. Free and hydrolyzed formaldehyde (water extraction method)	BS EN ISO 14184-1:2011 GB/T/ 2912.1:2009 SASO 2146:2003 JIS-L1041:2011	(5 to 2000) mg/kg
45	Textile, Textile Products and Accessories	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	(5 to 2000) mg/kg
46	Textile, Textile Products and Accessories	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 21) Disperse Brown 1 22) Disperse Yellow 7 23) Acid Red 26 24) Basic Violet 14 HCL 25) Direct Red 28	DIN 54231:2022 ISO 16373-2:2014 EN ISO 16373-3:2014 In House Work Instruction MS-0045483	(15-2000) mg/kg


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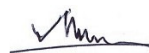
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		26) Basic Red 9 27) Direct Blue 2b/6 28) Direct Brown 95 29) Basic Violet 1 30) Disperse Yellow 39 31) Disperse Orange 37/76 32) Basic violet 3 33) Navy Blue 34) Acid red 14 35) Naphthol AS 36) Basic Red 46 37) Solvent Yellow 1 38) Solvent Yellow 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 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		
47	Textile, Textile Products and Accessories	Determination of Polynuclear Aromatic Hydrocarbons (PAHs) 1) Naphthalene 2) Acenaphthylene 3) Acenaphthene 4) Fluorene	AfPS GS 2019:01 PAK, ISO 18287:2006 In House Work Instruction MS-0045493	(0.1-1000) mg/kg


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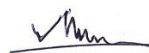
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		5) Phenanthrene. 6) Anthracene 7) Fluoranthene. 8) Pyrene 9) 1-Methylpyrene 10) Cyclopenta (c,d) pyrene 11) Benzo(a)anthracene 12) Chrysene 13) Benzo(b)Fluorene 14) Benzo(j) Fluorene 15) Benzo(k)Fluorene 16) Benzo(e)pyrene 17) Benzo(a)pyrene. 18) Indeno(1,2,3-cd)pyrene. 19) Dibenzo(ah) anthracene 20) Benzo(ghi) perylene 21) Dibenzo(a l) pyrene 22) Dibenzo(a e) pyrene 23) Dibenzo(a i) pyrene 24) Dibenzo(a h) pyrene		
48	Textile, Textile Products and 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 17137:2018 In House Work Instruction MS-0045484	(0.1-1000) mg/kg


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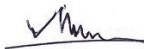
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		17) 1,2,3,4-Tetrachlorobenzene 18) 1,2,3,5-Tetrachlorobenzene 19) 1,2,4,5-Tetrachlorobenzene 20) Pentachlorobenzene 21) 2,3,4,5,6-Pentachlorotoluene 22) Hexachlorobenzene 23) α , α , α ,4-Tetrachlorotoluene 24) Chlorobenzene 25) Benzyl chloride 26) α , α , α Trichlorotoluene		
49	Textile, Textile Products and Accessories	Dimethyl form amide (DMFa)	CEN ISO/TS 16189:2021 In House Work Instruction MS-0045495	(2.5-2000) mg/kg
50	Textile, Textile Products and Accessories	Polyvinyl chloride Identification (PVC)	In House Work Instruction MS-0045496	Qualitative
51	Textile, Textile Products and Accessories	Perfluorinated and Polyfluorinated Chemicals (PFCs/PFAS): 1) PFOA 2) PFNA 3) PFBS 4) PFOS 5) PFHxS 6) PFHxA 7) PFPeA 8) PFHpA 9) PFDA 10) PFUnA 11) PFDaA 12) PFTrA 13) PfteA 14) PFHpS 15) PFDS 16) PF-3,7-DMOA 17) HPPHpA 18) 4HPFUnA 19) 1H, 1H, 2H, 2H-PFOS	CEN /TS 15968:2010 ISO 25101:2009 DIN 38407-42:2011 In House Work Instruction MS-0045492	(0.1-10) μ g/m ² And (0.5-5000) μ g/kg


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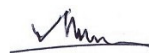
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		20) POSF 21) PFOSA 22) N-Me-FOSA 23) N-Et-FOSA 24) N-Me-FOSE alcohol 25) N-Et-FOSE alcohol 26) 4:2 FTOH 27) 6:2 FTOH 28) 8:2 FTOH 29) 10:2 FTOH 30) 6:2 FTA 31) 8:2 FTA 32) 10:2 FTA 33) NaPFN/APFN		
52	Textile, Textile Products and Accessories	Toxic elements 1) Lead (Pb), 2) Cadmium (Cd), 3) Mercury (Hg), 4) Hexavalent Chromium (Cr VI)	EN 62321:2009 ILNAS EN 16711-1:2015 In House Work Instruction MS-0045480	(0.1-1000) mg/kg
53	Textile, Textile Products and Accessories	Short chain & Medium Chain Chloroparaffins (SCCP/MCCP) SCCP- 51.5% SCCP- 55.5% SCCP- 63% MCCP- 42% MCCP- 57% MCCP- 52%	ISO 22818:2021 In House Work Instruction MS-0045491	(20-10000) mg/kg
54	Textile, Textile Products and Accessories	Determination of pH of aqueous extract	ISO 3071:2020 AATCC TM 81:2022 GB/T/ 7573:2009 SASO 2144:2003	1 to 13 & 3 to 11 for SASO 2144/2003
55	Textile, Textile Products and Accessories	VOC 1) Methyl-ethyl ketone 2) Ethylbenzene 3) (m+p) Xylene 4) Cyclohexanone 5) 1,2,3-trichloropropane	US EPA 8260B:1996 ISO 11423-1:1997 US EPA 8270 D:1998 In House Work Instruction MS-0045633	


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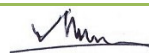
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		6) Acetophenone 7) Naphthalene 8) 2-phenyl-2-propanole 9) O-Cresol (2-Methylphenol) 10) m-Cresol (3-Methylphenol) 11) P-Cresol (4-Methylphenol) 12) Styrene 13) Benzene 14) Toluene 15) 1-methyl-2-pyrrolidone(NMP) 16) N,N-dimethylacetamide(DMAC) 17) N-N Dimethyl Fomamide 18) Formamide 19) O- Xylene		
56	Textile, Textile Products and 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)	ISO 17881-1:2016 ISO 17881-2:2016 In House Work Instruction MS-0045497	(0.5-1000) mg/kg


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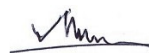
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		13) Polybrominated biphenyls (PBBs)		
		14) Monobromo biphenyls (MonoBB)		
		15) Dibromo biphenyls (DiBB)		
		16) Tribromo biphenyls (TriBB)		
		17) Tetrabromo biphenyls (TetraBB)		
		18) Pentabromo biphenyls (PentaBB)		
		19) Hexabromo biphenyls (HexaBB)		
		20) Heptabromo biphenyls (HeptaBB)		
		21) Octabromo biphenyls (OctaBB)		
		22) Nonabromo biphenyls (NonaBB)		
		23) Decabromo biphenyl (DecaBB)		
		24) Polybrominated diphenyl ethers (PBDEs)		
		25) Monobromo diphenyl ethers (MonoBDE)		
		26) Dibromo diphenyl ethers (DiBDE)		
		27) Tribromo diphenyl ethers (TriBDE)		
		28) Tetrabromo diphenyl ethers (TetraBDE)		
		29) Pentabromo diphenyl ethers (PentaBDE)		
		30) Hexabromo diphenyl ethers (HexaBDE)		
		31) Heptabromo diphenyl ethers (HeptaBDE)		
		32) Octabromo diphenyl ethers (OctaBDE)		
		33) Nonabromo diphenyl ethers (NonaBDE)		
		34) Decabromo diphenyl ether (DecaBDE)		


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57	Textile, Textile Products and Accessories	Preserving Agent 1) n-Octylisothiazolinon (OIT) 2) 2- Thiocyanomethylthiobenzothiazol 3) p-chlor-m-Kresol (CMK) 4) Orthophenylphenol (OPP) 5) Triclosan	In House Work Instruction MS-0045627	1-5000 mg/kg
58	Textile, Textile Products and Accessories	AEAA	In House Work Instruction MS-0045628	2-5000 mg/Kg
59	Textile, Textile Products and Accessories	Thiourea	In House Work Instruction MS-0045629	5-5000 mg/Kg
60	Textile, Textile Products and Accessories	Anti- Microbials& Biocides 1) Permethrin 2) Orthophenylphenol (OPP) 3) Triclosan	In House Work Instruction MS-0045630	10-5000 mg/kg
61	Textile, Textile Products and Accessories	UV absorbers 1) UV-320 2) UV-327 3) UV-328 4) UV-350	In House Work Instruction MS-0045631	5-5000 mg/kg
62	Textile, Textile Products and Accessories	ADCA	Organic solvent extraction, LCMSMS/LC-DAD In House Work Instruction MS-0045510	25-1000 mg/kg
63	Textile, Textile Products and Accessories	Corrosion	ISO 22775 part 2:2004 DIN EN ISO 10289:2001	1-5
64	Textile, Textile Products and Accessories	Zinc Content (%)	In House Work Instruction MS-0045511	(0.01-99)%
65	Textile, Textile Products and Accessories	Cyclic Siloxanes 1) D4 (Octamethylcyclotetrasiloxane) 2) D5 (Decamethylcyclopentasiloxane)) 3) D6	Solvent Extraction analyzed by GC-MS In House Work Instruction MS-0045490	50-5000 kg


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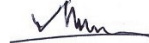
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		(Dodecamethylcyclohexasiloxane)		
66	Textile, Textile Products and Accessories	Perboric Acid, Sodium Salt	Acid digestion analyzed by ICP-MS In House Work Instruction MS-0045511	20-10000 mg/kg
67	Leather and Footwear Products	Determination of Polynuclear Aromatic Hydrocarbons (PAHs) 1) Naphthalene 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)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	AfPS GS 2019:01 PAK, ISO 18287:2006	(0.1-1000) mg/kg
68	Leather and Footwear Products	Azo Dyes(Banned Amines) 1) 4-Aminobiphenyl 2) Benzidine 3) 4-Chloro-O-Toluidine 4) 2-Naphthylamine 5) O-Aminoazobenzene 6) 5-Nitro-o-toluidine 7) 4-Chloroaniline	BS EN ISO-17234-1:2020 BS EN ISO-17234-2:2011	(5 to 1000) mg/kg


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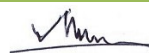
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		8) 2,4'-Diaminoanisole 9) 4,4'-Diaminodiphenylmethane 10) 3,3'- Dichlorobenzidine 11) 3,3'-Dimethoxybenzidine 12) 3,3'-Dimethylbenzidine 13) 3,3'-Dimethyl-4,4'- Diaminodiphenylmethane 14) p-Cresidine 15) 4,4' Methylene -bis- 2 Chloroaniline) 16) 4,4'-Oxydianiline 17) 4,4'-Thiodianiline 18) o-Toluidine 19) 2,4 – Toluylenediamine 20) 2, 4,5 Trimethylaniline 21) o-Anisidine 22) 4-Aminoazobenzene 23) Aniline 24) 2, 4 Xylidine 25) 2,6 Xylidine 26) 1,4 Phenylenediamine 27) 4-Chloro-o-toluidinium chloride 28) 2,4,5-Trimethylaniline hydrochloride 29) 2-Naphthylammoniumacetate 30) 2,4-Diaminoanisole sulphate		
69	Leather and Footwear Products	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	LFGB § 64 BVL B 82.02.8:2001 ISO 17070:2015	(0.05-1000) mg/kg


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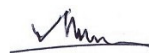
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		9) 2,3,4,5 – Tetrachlorophenol 10) Pentachlorophenol[PCP] 11) 2-CP-2 Chlorophenol 12) 3-CP-3 Chlorophenol 13) 4-CP- 4 Chlorophenol 14) 2,6-DCP 15) 2,5-DCP 16) 3,5-DCP 17) 2,4-DCP 18) 2,3-DCP 19) 3,4-DCP 20) 2,4,6-TBP 21) Ortho-Phenylphenol [OPP] 22) 2,6-DMP 23) Tetrachlorophenol(TeCP) 24) Trichlorophenol (TriCP) 25) Phenol		
70	Leather and Footwear Products	Dimethyl fumarate	ISO/TS 16186:2021	(0.05 to 1000)mg/kg
71	Leather and Footwear Products	Migration of certain elements 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	EN 71 Part-3:2021 ASTM F963-2017 ISO 17072-1:2019	(0.05-1000) mg/kg


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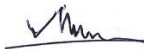
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		16) Tin 17) Zinc		
72	Leather and Footwear Products	Extractable Heavy metals 1) Antimony 2) Arsenic 3) Cadmium 4) Chromium 5) Cobalt 6) Copper 7) Lead 8) Manganese 9) Mercury 10) Nickel 11) Selenium	ISO 17072-1:2019 ISO 104 E 05:2013	(0.01-1000) mg/kg
73	Leather and Footwear Products	Alkyl Phenyl (AP) & AlkylPhenylethoxylates (APEO) 1) 4-n-Nonylphenol 2) NP Technical 3) 4-n-OP 4) 4-tert-OP 5) NPEO 6) OPEO	ISO 18218-1 :2015 ISO 18218-2 :2019	(2-10000) mg/kg
74	Leather and Footwear Products	Chromium (VI)	EN ISO 17075-1:2017 EN ISO 17075-2:2017	(1- 500) mg/kg
75	Leather and Footwear Products	PFOA& PFOS	CEN /TS 15968:2010	(0.1-10)µg/m ² And (0.5-5000)µg/kg
76	Leather and Footwear Products	Determination of pH of aqueous extract	ISO 4045:2018	1 to 13
77	Leather and Footwear Products	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	(5 to 2000) mg/kg


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78	Leather and Footwear Products	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 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	DIN 54231:2022 ISO 16373-2:2014 EN ISO 16373-3:2014	(15-2000) mg/kg


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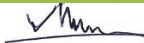
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		32) Basic violet 3 33) Navy Blue 34) Acid red 14 35) Naphthol AS 36) Basic Red 46 37) Solvent Yellow 1 38) Solvent Yellow 2 39) Direct Black 38 40) Direct Red 28 41) Basic Blue 26 42) Basic Green 4 43) Disperse Red-151 44) Disperse Yellow 56 45) Solvent Yellow 3 46) Acid Red 114 47) Acid Violet 49 48) Direct Blue 15 49) Direct Blue 218 50) α,α -Bis 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		
79	Leather and Footwear Products	Determination of Chlorinated Organic Carrier (COCs) 1) 2-Chlorotoluene 2) 3-Chlorotoluene 3) 4-Chlorotoluene	EN 17137:2018	(0.1-1000) mg/kg


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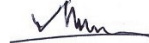
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		4) 1,2-Dichlorobenzene 5) 1,3-Dichlorobenzene 6) 1,4-Dichlorobenzene 7) 2,3-Dichlorotoluene 8) 2,4-Dichlorotoluene 9) 2,5-Dichlorotoluene 10) 2,6-Dichlorotoluene 11) 3,4-Dichlorotoluene 12) 1,2,3-Trichlorobenzene 13) 1,2,4-Trichlorobenzene 14) 1,3,5-Trichlorobenzene 15) 2,4,5-Trichlorotoluene 16) 2,3,6-Trichlorotoluene 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) α , α , α 4-Tetrachlorotoluene 24) Chlorobenzene 25) Benzyl chloride 26) α , α , α , α Trichlorotoluene		
80	Leather and Footwear Products	Dimethyl formamide (DMFa)	CEN ISO/TS 16189:2021	(2.5-2000) mg/kg
81	Leather and Footwear Products	Organotin 1) Dimethyltin chloride (DMeTCL) 2) Trimethyltin chloride (TMeTCL) 3) Methyltintrichloride (MeTCL) 4) Dipropyltin chloride (DProTCL) 5) Monobutyltin chloride (MBTCL) 6) Dibutyltin chloride (DBTCL) 7) Tri-n-Propyl tin (TnPT)	ISO/TS 16179 :2012	(0.01-1000) mg/kg


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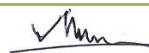
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		8) Tributyltin chloride (TBTC) 9) Monooctyltin (MOT) 10) Tetrabutyltin (TeBT) 11) Diphenyltin dichloride (DPhTCL) 12) Dioctyltin dichloride (DOT) 13) Triphenyltin chloride (TriPhTCL) 14) Tricyclohexyltin chloride (TricycloTCL) 15) Trioctyltin (TOT)		
82	Leather and Footwear Products	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-isopentyl 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	CPSC-CH-C1001-09.4:2018 EN ISO 14389:2022 GB/T 20388:2016 EN 14372:2004	(10 - 20000) mg/kg


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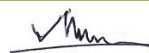
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		23) DMPP Bis(4-methylpentyl) Phthalate		
		24) DUDP/DUNP: Di-n-undecyl Phthalate/ Bis-n-undecyl ester		
		25) DiHexP(1,2-benzene dicarboxylic acid, dihexyl ester)		
		26) DINCH(1,2- Cyclohexanedicarboxylic acid, 1,2-diisononyl ester)		
		27) DAP(Diallyl phthalate)		
83	Leather and Footwear Products	Short chain & Medium Chain Chloroparaffins (SCCP/MCCP) SCCP- 51.5% SCCP- 55.5% SCCP- 63% MCCP- 42% MCCP- 57% MCCP- 52%	EN ISO 18219-1:2021 EN ISO 18219-2:2021	(20-10000) mg/kg
84	Leather and Footwear Products	Bisphenol-A	BSI EN 13130-13:2005	(0.1-100) mg/kg
85	Leather and Footwear Products	Total Heavy metals in Leather 1) Aluminium 2) Antimony 3) Arsenic 4) Barium 5) Iron 6) Cadmium 7) Chromium 8) Cobalt 9) Copper 10) Lead 11) Manganese 12) Mercury 13) Nickel 14) Selenium 15) Calcium	EN ISO 17072-2:2022	(0.05-10000) mg/kg


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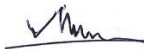
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		16) Tin 17) Zinc 18) Molybdenum 19) Potassium 20) Sodium 21) Titanium 22) Zirconium		
86	Leather and Footwear Products	Moisture(%) content	EN ISO 4684:2005	(1-90)%
87	Leather and Footwear Products	Fat (%) content	ISO 4048:2018	(1-90)%
88	Drinking water	pH	US EPA 150.1:1982 IS: 3025 (Part 11)-2022	(1-13)
89	Drinking water	Hardness as CaCO ₃	IS: 3025 (Part21) : 2009	(50-2000) mg/L
90	Drinking water	TDS	US EPA 160.1:1999	(50-2000) mg/L
91	Drinking water	Alkalinity, as CaCO ₃	IS :3025 (Part 23)-1986	(10-1000) mg/L
92	Drinking water	Nitrate - Nitrogen	IS: 3025 (Part 34) - 1988 (Chromotropic acid method)	(0.02-500) mg/L
93	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)	IS 3025 : PART 2 : 2019 ISO 11885:2009	(0.01-1000) mg/L
94	Waste Water	pH	IS:3025(Part11): 2022 US EPA 150.1:1982	2-13
95	Waste Water	Temperature difference	USEPA170.1: 1994	1-100 °C
96	Waste Water	E.coli	SM 9222G ,SM 9221G	10-10000 CFU/100-ml
97	Waste Water	Colour (436nm; 525nm; 620nm)	ISO 7887-B: 2011	1 Pt-Co to 20 Pt- Co
98	Waste Water	Wastewater Flowrate	In House Work Instruction MS-0045508	


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99	Waste Water	Ammonium-Nitrogen	USEPA 350.1: 1993	0.2-50 mg/L
100	Waste Water	AOX	EN ISO 9562: 2004	0.1-10 mg/L
101	Waste Water	Biochemical Oxygen Demand 5-days concentration (BOD5)	USEPA 405.1: 1974	(2 to 500)mg/L
102	Waste Water	Chemical Oxygen Demand (PHOSPH)	USEPA 410.4: 1993	10 to 1000 mg/L
103	Waste Water	Dissolved Oxygen (DO)	USEPA 360.1:1971	0.05 - 20.0 mg/L
104	Waste Water	Oil & Grease	USEPA 1664 B: 2010	5-1000 mg/L
105	Waste Water	Total Phenols / Phenol Index	APHA 5530C: 23rd edition 2017	0.001-100 mg/L
106	Waste Water	Total Chlorine	EPA 330.5:1978	0.2- 20 mg/L
107	Waste Water	Total Dissolved Solids (TDS)	USEPA 160.1: 1999	(10-2000) mg/L
108	Waste Water	Total Nitrogen	APHA 4500 N-C: 23rd Edition 2017	1– 100 mg/L
109	Waste Water	Total Phosphorus	GB/T 11893:1989	(0.05-20)mg/L
110	Waste Water	Total Suspended Solids (TSS)	USEPA 160.2: 1971	(3-10000) mg/L
111	Waste Water	Hardness as CaCO ₃	IS: 3025 (Part 21) : 2009 EDTA Method	(10-2000) mg/L
112	Waste Water	Total Alkalinity as CaCO ₃	IS :3025 (Part 23)-1986	(10-1000) mg/L
113	Waste Water	Nitrate–Nitrogen	IS: 3025 (Part 34) - 1988 (Chromotropic acid method)	(0.1-50) mg/L
114	Waste Water	Hexavalent Chromium(Cr-VI)	ISO 18412:2006	(0.1 to 10) mg/L
115	Waste Water	Chloride (Anions)	IS 3025(32): 1988	0.15-1000 mg/L
116	Waste Water	Cyanide, total (Anions)	APHA 4500 CN: 23rd Edition 2017	0.03-10 mg/L
117	Waste Water	Sulfate(Anions)	IS-3025 Part 24:2009	5-1000 mg/L
118	Waste Water	Sulfide(Anions)	APHA 4500-s2-D(23rd edition):2017	(0.005-20) mg/L
119	Waste Water	Sulfite(Anions)	EN ISO 10304-3:1997	0.1-20 mg/L
120	Waste Water	Alkylphenol (AP) and AlkylphenolEthoxylates (APEOs): 1) Nonylphenoethoxylates (NPEO) 2) Nonylphenol (NP), mixed isomers	In House Work Instruction MS-0045536 Based on EN ISO 18857 - 2:2011 and ISO '18254- 1:2016	0.5 -1000 µg/L


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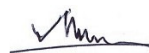
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		3) Octylphenolethoxylates (OPEO) 4) Octylphenol (OP), mixed isomers		
121	Waste Water	Anti- Microbials& Biocides: 1) O-Phenylphenol (+salts) 2) Triclosan 3) Permethrin	USEPA 8270E:2018 Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS In House Work Instruction MS-0045503	10-5000 µg/L
122	Waste Water	Chlorinated Paraffins: Medium-chain Chlorinated 1) paraffins (MCCPs) (C14-C17) 2) Short-chain Chlorinated paraffin (C10 – C13)	In House Work Instruction MS-0045531 Based on ISO 18219-2: 2021 & ISO 12010:2019	0.1-5000 µg/L
123	Waste Water	Chlorobenzenes and Chlorotoluenes 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	In House Work Instruction MS-0045535 Based on USEPA 8260D:2017, 8270E	(0.15-200) µg/L


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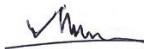
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		20) 3,4-dichlorotoluene 21) 3,5-dichlorotoluene 22) 2,3,4-Trichlorotoluene 23) 2,3,6-Trichlorotoluene 24) 2,3,5-Trichlorotoluene 25) 2,4,6-Trichlorotoluene 26) 3,4,5-Trichlorotoluene 27) 2,3,4,5-Tetrachlorotoluene 28) 2,3,5,6-Tetrachlorotoluene 29) 2,3,4,6-Tetrachlorotoluene 30) Pentachlorotoluene		
124	Waste Water	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 19) Pentachlorophenol	In House Work InstructionMS-0045533 Based on USEPA 8270 E:2018 and DIN EN 12673:1999	(0.5 -500) µg/L
125	Waste Water	Dimethyl Formamide (DMFa); N,N-dimethylformamide (DMFa)	EPA 8015, EPA 8270E:2018	100-10000 µg/L
126	Waste Water	Dyes – Carcinogenic or Equivalent Concern: 1) Basic violet 3 with >0.1% of Michler'sKetoneb 2) Acid Red 26 3) Acid Violet 49	In House Work Instruction MS-0045537 Based on Liquid extraction, LC/MS,DIN 54231:2022	20-5000 µg/L


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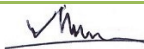
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		4) Basic Blue 26 (with Michler's Ketone >0.1%) 5) Basic Green 4 6) Basic Red 9 7) Basic Violet 14 8) Direct Black 38 9) Direct Blue 6 10) Direct Red 28 11) Disperse Blue 1 12) Disperse Blue 3 13) Disperse Orange 11		
127	Waste Water	Dyes – Disperse (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 Work Instruction MS-0045537 Based on Liquid extraction, LC/MS,DIN 54231:2022	20-5000 µg/L
128	Waste Water	Dyes – Navy Blue Colourant: 1) Component 1:C39H23Cl- CrN7O12S 2Na 2) Component 2:C46H- 30CrN10O20S2 3Na	In House Work Instruction MS-0045537 Based on Liquid extraction, LC/MS,DIN 54231:2022	20-5000 µg/L
129	Waste Water	Flame Retardants: 1) 2,2-bis(bromomethyl)-1,3- propanediol (BBMP) 2) Bis(2,3-dibromopropyl) phosphate (BIS) 3) Decabromodiphenyl ether	In House Work Instructions MS-0045539 MS-0045540 MS-0045541 MS-0045542 MS-0045610	0.1-500 µg/L


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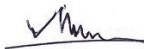
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		(DecaBDE)	Based on USEPA	
4)	Hexabromocyclodecane (HBCDD)		8270E:2018, EN ISO	
5)	Octabromodiphenyl ether(OctaBDE)		22032:2009. USEPA	
6)	Pentabromodiphenyl ether(PentaBDE)		527:2005 and	
7)	Polybromobiphenyls (PBB)		USEPA 83218	
8)	TetrabromobisphenolA(TBBPA)			
9)	Tris-(2-chloro-1- methylethyl)phosphate (TCPP)			
10)	Tris(1- aziridinyl)phosphineoxide (TEPA)			
11)	Tris(1,3-dichloro- isopropyl)phosphate (TDCP)			
12)	Tris(2-chloroethyl)phosphate (TCEP)			
13)	Tris(2,3,- dibromopropyl)phosphate (TRIS)			
14)	Decabromobiphenyl (DecaBB)			
15)	Dibromobiphenyls (DiBB)			
16)	Octabromobiphenyls (OctaBB)			
17)	Dibromopropylether			
18)	Heptabromodiphenyl ether(HeptaBDE)			
19)	Hexabromodiphenyl ether(HexaBDE)			
20)	Monobromobiphenyls(MonoBB)			
21)	Monobromodiphenylethers (MonoBDEs)			
22)	Nonabromobiphenyls(NonaBB)			
23)	Nonabromodiphenyl ether(NonaBDE)			
24)	Tetrabromodiphenyl ether(TetraBDE)			
25)	Tribromodiphenylethers(TriBD Es)			


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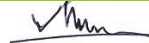
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		26) Boric acid 27) Diboron trioxide 28) Disodium octaborate 29) Disodium tetraborate anhydrous 30) Tetraboron disodium heptaoxide, hydrate		
130	Waste Water	Glycols / Glycol Ethers: 1) 2-ethoxyethanol 2) 2-ethoxyethyl acetate 3) 2-methoxyethanol 4) 2-methoxyethylacetate 5) 2-methoxypropylacetate 6) Bis(2-methoxyethyl)-ether 7) Ethylene glycol dimethylether 8) Triethylene glycol dimethyl ether	In House Work Instruction MS-0045544 Based on USEPA 8270E:2018	20-500 µg/L
131	Waste Water	Halogenated Solvents: 1) 1,2-dichloroethane 2) Methylene chloride 3) Tetrachloroethylene 4) Trichloroethylene	In House Work Instruction MS-0045545 Based on USEPA 8260D:2017	1-500 µg/L
132	Waste Water	Organotin Compounds: 1) Dipropyltin compounds (DPT) 2) Mono-, di- and tri-butyltin derivatives 3) Mono-, di- and tri- methyltin derivatives 4) Mono-, di- and tri-octyltin derivatives 5) Mono-, di- and tri-phenyltin derivatives 6) Tetraethyltin compounds (TeBT) 7) Tripropyltin Compounds (TPT) 8) Tetraoctyltin compounds(TeOT) 9) Tricyclohexyltin (TCyHT) 10) Tetraethyltin Compounds(TeET)	In House Work Instruction MS-0045534 Based on ISO 17353:2004	0.01 - 10 µg/L
133	Waste Water	Other/Miscellaneous Chemicals: 1) AEEA[2-(2-	Liquid extraction, LC-MSMS	10-500 µg/L


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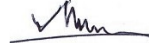
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		aminoethylamino)ethanol] 2) Bisphenol A 3) Thiourea 4) Quinoline 5) Borate, zinc salt	In House Work Instruction MS-0045504 Determined as total boron and total zinc via ICP	
134	Waste Water	Perfluorinated and Polyfluorinated Chemicals (PFCs): 1) Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA) 2) Perfluorooctanoic acid (PFOA) related substances	In House Work Instruction MS-0045538 Based on EPA 537-1:2020 and BS EN 12673.1999	0.01 -100 µg/L
135	Waste Water	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) Bis(2-methoxyethyl)phthalate (DMEP) 4) Butyl benzyl phthalate (BBP) 5) Di-cyclohexyl phthalate (DCHP) 6) Di-iso-decyl phthalate (DIDP) 7) Di-iso-octyl phthalate (DIOP) 8) Di-isobutyl phthalate (DIBP) 9) Di-isononyl phthalate (DINP) 10) Di-n-hexyl phthalate (DnHexP) 11) Di-n-octyl phthalate (DNOP) 12) Di-n-pentylphthalates (DNPP) 13) Di-n-propyl phthalate (DPRP) 14) Di(ethylhexyl) phthalate (DEHP) 15) Dibutyl phthalate (DBP) 16) Diethyl phthalate (DEP) 17) Diisopentylphthalates 18) Dinonyl phthalate (DNP) 19) Dimethyl Phthalate (DMP)	In House Work Instruction MS-0045532 Based on US EPA 8270E:2018, ISO 18856:2005	0.35-1200 µg/L


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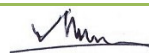
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		20) Phthalic Acid, bis-propyl ester (DPP)		
		21) Di Heptyl phthalate (Di HepP)		
136	Waste Water	Polycyclic Aromatic Hydrocarbons (PAHs): 1) Acenaphthene 2) Acenaphthylene 3) Anthracene 4) Benzo[a]anthracene 5) Benzo[a]pyrene (BaP) 6) Benzo[b]fluoranthene 7) Benzo[e]pyrene 8) Benzo[ghi]perylene 9) Benzo[j]fluoranthene 10) Benzo[k]fluoranthene 11) Chrysene 12) Dibenz[a,h]anthracene 13) Fluoranthene 14) Fluorene 15) Indeno[1,2,3-cd]pyrene 16) Naphthalene 17) Phenanthrene 18) Pyrene	In House Work Instruction MS-0045517 Based on USEPA 8270E:2018 and DIN 38407-39:2011	0.1 -1000 µg/L
137	Waste Water	Restricted Aromatic Amines (Cleavable from Azo-colourants): 1) 2-naphthylamine 2) 2-Naphthylammoniumacetate 3) 2,4-xylidine 4) 2,4,5-trimethylaniline 5) 2,4,5-trimethylaniline hydrochloride 6) 2,6-xylidine 7) 3,3'-dichlorobenzidine 8) 3,3-dimethoxybenzidine 9) 3,3-dimethylbenzidine 10) 4-aminoazobenzene 11) 4-aminodiphenyl 12) 4-chloro-o-toluidine 13) 4-chloro-o-toluidinium chloride 14) 4-chloroaniline 15) 4-methoxy-m-phenylene	In House Work Instruction MS-0045516 Based on 8270E:2018 .EN ISO 14362-1: 2017and EN ISO 14362-3:2017	0.09-100 µg/L


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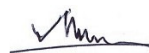
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		diammonium sulphate;2,4- diaminoanisole sulphate		
		16) 4-methoxy-m- phenylenediamine		
		17) 4-methyl-m- phenylenediamine		
		18) 4,4-methylenebis-(2-chloro- aniline)		
		19) 4,4-methylenedi-o-toluidine		
		20) 4,4-methylenedianiline		
		21) 4,4-oxydianiline		
		22) 4,4-thiodianiline		
		23) 5-nitro-o-toluidine		
		24) 6-methoxy-m-toluidine		
		25) Benzidine		
		26) o-aminoazotoluene		
		27) o-anisidine		
		28) o-toluidine		
138	Waste Water	UV Absorbers:		10-5000 µg/L
		1) 2-(2H-benzotriazol-2-yl)-4- (tert-butyl)-6-(sec-butyl) phenol(UV-350)	USEPA 8270:2018 USEPA 527:2005 and USEPA 8321B:2007	
		2) 2-(2H-benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	Dichloromethane extraction GC-MS or LC-MS/MS	
		3) 2-benzotriazol-2-yl-4,6-di- tertbutylphenol(UV-320)	In House Work Instruction MS-0045504	
		4) 2,4-Di-tert-butyl-6-(5 chlorobenzotriazole-2-yl) phenol(UV-327)		
139	Waste Water	Volatile Organic Compounds (VOC):	In House Work Instruction MS-0045611	
		1) Benzene	Based on ISO 11423-	(1.0-1000) µg/L
		2) m-cresol	1:1997, US EPA	
		3) o-cresol	8270E:2018 and BS EN	
		4) p-cresol	12673-1999	
		5) Xylene		
		6) Toluene		
140	Waste Water	Heavy Metals:	In House Work Instructions MS-0045514	0.001-1000 mg/L
		1) Antimony		


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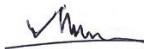
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		2) Chromium (VI) 3) Barium 4) Selenium 5) Tin 6) Arsenic 7) Chromium, total 8) Cobalt 9) Cadmium 10) Copper 11) Lead 12) Nickel 13) Silver 14) Zinc 15) Mercury	MS-0045515	
141	Sludge	Heavy Metals(Sludge Disposal Pathways): 1) Antimony 2) Arsenic 3) Barium 4) Cadmium 5) Cobalt 6) Copper 7) Lead 8) Nickel 9) Selenium 10) Silver 11) Total Chromium 12) Zinc 13) Chromium (VI) 14) Mercury	In House Work Instructions MS-0045514 MS-0045515	0.01-100 mg/kg
142	Sludge	Cyanide (Anions)	USEPA 9013 A:2014 EPA 9014 :2014 EPA 9213:1996	20-1000 mg/kg
143	Sludge	pH	EPA SW 9045D:2004	2-10
144	Sludge	% Solids	USEPA 160.3:1971	1-95 %
145	Sludge	Paint Filter Test	In House Work Instruction MS-0045513	Positive / Negative
146	Sludge	Fecal Coliform	EPA 1681:2006	0.18-1000 MPN/g
147	Sludge	Total Heavy Metal (Leachate)	Leachate Extraction: EPA	0.01-100 mg/L


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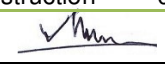
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		1) Arsenic 2) Cadmium 3) Total Chromium 4) Lead 5) Antimony 6) Barium 7) Cobalt 8) Copper 9) Nickel 10) Selenium 11) Silver 12) Zinc 13) Chromium (VI) 14) Mercury	1311 :1992 Analysis: In House Work Instructions MS-0045514 MS-0045515	
148	Sludge	Alkylphenol (AP) and AlkylphenolEthoxylates (APEOs): including all Isomers: 1) NP/OP 2) OPEO/NPEO (n>2)	In House Work Instruction MS-0045536 Based on ISO 18857 - 2:2011 and ISO 18254- 1:2016	0.1-200 mg/kg
149	Sludge	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 Work Instruction MS-0045517 Based on USEPA 3541:1994,USE PA 3550C:2007,USEPA 36404 and 8270E:2018	0.1-500 mg/kg
150	Sludge	Chlorotoluenes (only): Mono-, di-,	In House Work Instruction	0.01-100 mg/kg


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		tri-, tetra- and pentachlorotoluene	MS-0045535	
		1) 2-Chlorotoluene	Based on USEPA	
		2) 3-Chlorotoluene	3541:1994, US EPA	
		3) 4-Chlorotoluene	3550C:2007, USEPA	
		4) 2,3-dichlorotoluene	3640A:1994 and	
		5) 2,4-dichlorotoluene	8270E:2018	
		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		
151	Sludge	Chlorobenzenes	In House Work Instruction	0.01-100 mg/kg
		1) Monochlorobenzene	MS-0045535	
		2) 1,2-Dichlorobenzene	Based on USEPA	
		3) 1,3-Dichlorobenzene	3541:1994, US EPA	
		4) 1,4-Dichlorobenzene	3550C:2007, USEPA	
		5) 1,2,3-Trichlorobenzene	3640A:1994 and	
		6) 1,2,4-Trichlorobenzene	8270E:2018	
		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		
152	Sludge	Chlorophenols:	In House Work Instruction	0.025-250mg/kg
		1) 2-chlorophenol	MS-0045533	
		2) 3-chlorophenol	Based on USEPA	
		3) 4-chlorophenol	8270E:2018 and DIN EN	
		4) 2,3-dichlorophenol	12673:1999	
		5) 2,4-dichlorophenol		
		6) 2,5-dichlorophenol		
		7) 2,6-dichlorophenol		
		8) 3,4-dichlorophenol		


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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: -

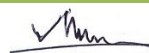
Amendment no: -

Accreditation Date: 27 June 2016

Issued on: 28 May 2023

Valid until: 26 June 2026

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		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) 2,3,5,6-tetrachlorophenol 17) 2,3,4,6-tetrachlorophenol 18) 2,3,4,5-tetrachlorophenol 19) Pentachlorophenol (PCP)		
153	Sludge	Restricted Aromatic Amines (Cleavable from Azo-colourants): 1) 2-naphthylamine 2) 2-Naphthylammoniumacetate 3) 2,4-xylidine 4) 2,4,5-trimethylaniline 5) 2,4,5-trimethylaniline hydrochloride 6) 2,6-xylidine 7) 3,3'-dichlorobenzidine 8) 3,3-dimethoxybenzidine 9) 3,3-dimethylbenzidine 10) 4-aminoazobenzene 11) 4-aminodiphenyl 12) 4-chloro-o-toluidine 13) 4-chloro-o-toluidinium chloride 14) 4-chloroaniline 15) 4-methoxy-m-phenylene diammonium sulphate;2,4- diaminoanisole sulphate 16) 4-methoxy-m- phenylenediamine 17) 4-methyl-m-phenylenediamine 18) 4,4-methylenebis-(2-chloro- aniline) 19) 4,4-methylenedi-o-toluidine 20) 4,4-methylenedianiline 21) 4,4-oxydianiline 22) 4,4-thiodianiline 23) 5-nitro-o-toluidine	In House Work Instruction MS-0045516 Based on 8270E:2018. EN ISO 14 362-1:2017 and EN ISO 14362-3:2017	0.05 mg/kg – 100 mg/kg


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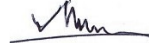
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		24) 6-methoxy-m-toluidine 25) Benzidine 26) o-aminoazotoluene 27) o-anisidine 28) o-toluidine		
154	Sludge	Dyes – Carcinogenic or Equivalent Concern: 1) Basic violet 3 with >0.1% of Michler'sKetoneb 2) Acid Red 26 3) Acid Violet 49 4) Basic Blue 26 (with Michler's Ketone >0.1%) 5) Basic Green 4 6) Basic Red 9 7) Basic Violet 14 8) Direct Black 38 9) Direct Blue 6 10) Direct Red 28 11) Disperse Blue 1 12) Disperse Blue 3 13) Disperse Orange 11	In House Work Instruction MS-0045537 Based on Liquid extraction, LC/MS,DIN 54231:2022	0.06-100 mg/kg
155	Sludge	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	In House Work Instruction MS-0045537 Based on Liquid extraction, LC/MS,DIN 54231:2022	0.06-100 mg/kg


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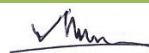
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
156	Sludge	18) Disperse Yellow 9 Flame Retardants: 1) 2,2-bis(bromomethyl)-1,3-propanediol (BBMP) 2) Bis(2,3-dibromopropyl)phosphate (BIS) 3) Decabromodiphenyl ether (DecaBDE) 4) Hexabromocyclodecane (HBCDD) 5) Octabromodiphenyl ether (OctaBDE) 6) Pentabromodiphenyl ether (PentaBDE) 7) Polybromobiphenyls (PBB) 8) Tetrabromobisphenol A (TBBPA) 9) Tris-(2-chloro-1-methylethyl)phosphate (TCPP) 10) Tris(1-aziridinyl)phosphineoxide (TEPA) 11) Tris(1,3-dichloroisopropyl)phosphate (TDCP) 12) Tris(2-chloroethyl)phosphate (TCEP) 13) Tris(2,3-dibromopropyl)phosphate (TRIS) 14) Decabromobiphenyl (DecaBB) 15) Dibromobiphenyls (DiBB) 16) Octabromobiphenyls (OctaBB) 17) Dibromopropylether 18) Heptabromodiphenyl ether (HeptaBDE) 19) Hexabromodiphenyl ether (HexaBDE) 20) Monobromobiphenyls (MonoBB) 21) Monobromodiphenylethers (MonobDEs) 22) Nonabromobiphenyls (NonaBB)	In House Work Instructions MS-0045539 MS-0045540 MS-0045541 MS-0045542 MS-0045610 Based on USEPA 8270 E:2018, EN ISO 22032 :2009. USEPA 527:2005 and USEPA 83218	0.03-250 mg/kg


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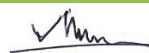
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		23) Nonabromodiphenyl ether(NonaBDE) 24) Tetrabromodiphenyl ether(TetraBDE) 25) Tribromodiphenylethers(TriBDE s) 26) Boric acid 27) Diboron trioxide 28) Disodium octaborate 29) Disodium tetraborate anhydrous 30) Tetraboron disodium heptaoxide, hydrate		
157	Sludge	Chlorinated Paraffins: Medium-chain Chlorinated 1) paraffins (MCCPs) (C14-C17) 2) Short-chain Chlorinated paraffin (C10 – C13)	In House Work Instruction MS-0045531	0.03-250 mg/kg
158	Sludge	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	In House Work Instruction MS-0045544 Based on USEPA 8270E:2018	1.0-500 mg/kg
159	Sludge	Halogenated Solvents: 1) 1,2-dichloroethane 2) Methylene chloride 3) Tetrachloroethylene 4) Trichloroethylene	In House Work Instruction MS-0045545 Based on USEPA 8260D:2017	0.3 -300 mg/kg
160	Sludge	Organotin Compounds: 1) MonoMehtyltintrichloride (MeTCL) 2) Dimethyltin chloride (DMeTCL) 3) Trimethyltin chloride (TMeTCL) 4) Monobutyltin chloride (MBTCL) 5) Dibutyltin chloride (DBTCL) 6) Tributyltin chloride (TBTC)	In House Work Instruction MS-0045534 Based on ISO 17353:2004	1.01 -100 mg/kg


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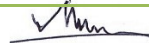
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		7) Monophenyltin chloride(MPhTCl) 8) Diphenyltin dichloride (DPhTCL) 9) Triphenyltin chloride (TriphTCL) 10) Monoctyltin (MOT) 11) Dioctyltin dichloride (DOT) 12) Trioctyltin (TOT)		
161	Sludge	Perfluorinated and Polyfluorinated Chemicals (PFCs): 1) Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA) 2) Perfluorooctanoic acid (PFOA) related substances	In House Work Instruction MS-0045538 Based on EPA 537-1:2020 and BS EN 12673.1999	0.008-100 mg/kg
162	Sludge	Volatile Organic Compounds (VOC): 1) Benzene 2) m-cresol 3) o-cresol 4) p-cresol 5) Xylene 6) Toluene	In House Work Instruction MS-0045611 Based on ISO 11423-1:1997,US EPA 8270E:2018 and BS EN 12673-1999	0.1-500 mg/kg
163	Sludge	Phthalates: 1) Di(ethylhexyl)phthalate (DEHP) 2) Bis (2-methoxyethyl) phthalate (DMEP) 3) Di-n-octyl phthalate (DNOP) 4) Di-iso-decyl phthalate (DIDP) 5) Di-isononyl phthalate (DINP) 6) Di-n-hexyl phthalate (DnHP) 7) Di-n-butyl phthalate (DBP) 8) Butyl benzyl phthalate (BBP) 9) Dinonyl phthalate (DNP) 10) Diethyl phthalate (DEP) 11) Di-n-propyl phthalate (DPRP) 12) Di-isobutyl phthalate (DIBP) 13) Di-cyclohexyl phthalate (DCHP) 14) Di-iso-octyl phthalate (DIOP)	In House Work Instruction MS-0045532	0.1-500 mg/kg


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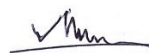
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		15) 1,2-benzenedicarboxylic acid, di-C7- 11-branched and linearalkyl esters (DHNUP)		
		16) 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)		

END


Quality Manager