



# ACCREDITATION CERTIFICATE

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

**TÜV SÜD Bangladesh (Pvt.) Ltd.**

**Level 7 & 8, Update Tower, 01 Shajalal Avenue  
Sector 6, Uttara Model Town, Dhaka, 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 : **01.022.15**  
Accreditation Date : **16 April 2015**  
Date of Issuance : **04 April 2018**  
Date of Expiration : **15 April 2021**



  
**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.

## z SCOPE OF ACCREDITATION

(For Testing Laboratory)

**CAB Name & Address:** TÜV SÜD Bangladesh Pvt. Ltd., Update Tower, Level 7 & 8, 01 Shajalal Avenue, Sector -06, Uttara Model Town, Dhaka - 1230, Bangladesh

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**Last Amended on:** 01 Dec 2019      **Valid until:** 03 April 2021

**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
<b>Field: Mechanical Testing</b>				
01	Textile, Yarn	Tensile Properties of Yarns Single-Strand Method	ASTM D 2256/ D 2256M – 10 (Reapproved 2015) ISO 2062 : 2009	1N – 500 N
02	Leather	Tensile and elongation at break	ISO 3376:2011	10N to 3000 N
03	Textile, Garments	Breaking Strength and Elongation (Grab Test)	ASTM D 5034 – 09 (2017) ISO 13934-2 : 2014 CAN/CGSB 4.2 No. 9.2 -M90 (R2013) AS 2001.2.3.2 : 2001	10N to 3000 N 0- 200%
		Breaking Force and Elongation (Strip Method)	ASTM D 5035 - 11 (2019) ISO/ BS EN ISO 13934-1 :2013 CAN/CGSB 4.2 No. 9.1-M 90: 2013 AS 2001.2.3.1 : 2001 SASO 2139/2003	10N to 3000 N 0- 200%
04	Textile, Garments	Bursting strength –Diaphragm –Pneumatic	ASTM D 3786/D 3786M-18 ISO 13938-1 :2019 ISO 13938-2 :2019 CAN/CGSB 4.2No.11.1: 94 (R2013) ASTM D 3787-16	200-700 KPa 10N 1000N
		–Ball Burst		
		Seam Properties – Seam Strength – Seam Slippage	ISO 13935 – 1:2014 ISO 13935 – 2:2014 ASTM D 434-1995 ASTM D1683 / D1683M – 17e1 ISO 13936 – 1:2004 ISO 13936 – 2:2004 BS 3320 - 1988 AS 2001.2.22: 2006 AS 2001.2.20: 2004 AS 2001.2.21: 1989	2.5N to 3000 N 0 - 80% Up to 10mm
06	Textile, Garments	Seam Stretchability test	TS 015	10N to 3000 N 0- 200%
07	Textile, Garments	Tearing strength of Fabrics (Elmendorf)	ASTM D 1424 – 09 (R 2019) ISO 13937-1 : 2000/Cor 1:2004	3 N – 50 N (320gf–5120 gf)
		Tearing strength of Fabrics ( Single Rip)	ASTM D 2261 -13(2017)e1 BS 4303 – 1968 ISO 13937-2 : 2000 ISO 13937-3 : 2000	3 N – 50 N (320gf–5120 gf)
		Tearing strength of Fabrics (Double tear)	ISO 13937-4 : 2000	3 N – 50 N (320gf–5120 gf)
08	Leather	Tearing strength	ISO 3377-1:2011 EN 13571:2002	10N to 3000 N



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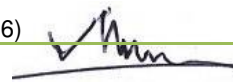
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
09	Textile, Garments	Abrasion resistance (Martindale)	ISO 12947 – 1:1998/ Cor.1 2002 ISO 12947 – 2: 2016 ISO 12947 – 3: 1998/ Cor.1 2002 ISO 12947 –4: 1998/ Cor.1 2002 ASTM D 4966: 12(2016)	Up to 99999 rubs for breakdown Up to 30% for weight loss 1 to 5 Grade
10	Textile, Garments	Pilling Resistance -Pilling Box Method -Martindale Method -Random Tumble Method	ISO 12945-1: 2000 ISO 12945-2: 2000 ASTM D 4970 / D 4970M-16e3 ASTM D 3512 /D 3512 M-16	1 to 5 Grade
11	Textile, Garments	Yarn number based on short length specimens	ASTM D 1059 – 17 ISO 7211/5 – 1984 GTP_Phy_CPS_25521A	1s – 120s Ne
12	Textile, Garments	Mass per unit area &unit length of Fabric	BS 2471-2005 ASTM D 3776/ D 3776 M –09a (2017) Option – C ISO 3801 - Method 5:1977 BS EN 12127 – 1998 DIN EN 12127 – 1997 AS 2001. 2.13-1987 GTP_Phy_CPS_25199A SASO 1938 : 2001 Method 5	5 GSM – 500 GSM Full range : GUL
13	Textile, Garments	Threads per Unit Length /Fabric count(Stitch density)	BS 2862 -1984 ASTM D 3775 – 17 BS EN 1049 – 2 : 1994 (DIN) ISO 7211/2 – 1984 ASTM D 3887 – 96 BS 5441 – 1988	1 to 100 per cm
14	Textile, Garments	Fabric width	ISO 22198:2006 ASTM D3774 – 96 (2016)	1- 300 cm
15	Zipper & Toys	Strength Tests for Zippers	BS 3084 – 2006 ASTM D 2061 – 07 (2013) 16 CFR 1500.53 DIN 3419-1 : 1998 AS 2332 – 2003 EN 16732: 2015	1kgf – 300 kgf (9.81 N to 2942 N)
16	Textile, Garments	Test for resistance to reciprocation	BS 3084-2006 (Annex F) AS 2332:2003(Annex E, Test 5)	Up to 99999 cycles
17	Textile, Garments	Resistance to Unsnapping of snap fasteners	ASTM D4846 - 96(2016)	1 kgf – 60 kgf (9.81 N to 590 N)
18	Textile, Garments	Stretch and Recovery / Tension and Elongation of Elastic Fabrics	BS EN /DIN EN/EN 14704-1 – 2005. ASTM D 4964-96 (2016)	1 to 200 %


  
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			ASTM D 3107 – 07(2015)	
19	Textile, Garments	Resistance to Surface Wetting (Spray Test)	ISO/ BS EN ISO 4920 - 2012 AATCC 22 - 2017	ISO 1 to ISO 5 (0 to 100)
20	Textile, Garments	Snagging Resistance by the Rotating Chamber(Snag Pod Method)	BS 8479 : 2008	1 to 5 Grade
21	Textile, Garments, Accessories and Toys	Torque Test	EN 71 PART 1-CLAUSE-8.3 :2014, 16 CFR 1500.51/52/53	Qualitative
22	Textile, Garments and Toys	Attachment/Pull Off Strength of Snap/Button/Rivets	BS 7907-2007: Annex-B PD CEN/TR 16792:2014 ASTM F 963 – 17. 16 CFR 1500.53 EN 71-1:2011+A3:2014 BS EN 71 Part-1:2014	1 N – 600 N (0.1 kg – 60 kg)
23	Textile, Garments, Toys products(Textile Metal Glass, Plastic, stone Leather Accessories) in Garments, Metal Jewellery, other article intended to use for children	Small Parts – Choking Hazard Test ( Small part cylinder of 31.7 mm inner diameter)	EN/ BS EN 71 PART 1- CLAUSE-8.2:2014, 16 CFR 1501, ASTM F 963-17, Sec-4.6	Qualitative
24	Textile, Garments, Toys products (Textile Metal Glass, Plastic, stone Leather Accessories) in Garments, Metal Jewelry, other article intended to use for children	Determination of Sharp Points Under a Force of 4.45 N (1 Pound)	EN/ / BS EN 71 PART 1- CLAUSE-8.12:2014. 16 CFR 1500.48 (Sharp Point) ASTM F 963-17, Sec-4.9 (Sharp Point)	Qualitative
25	Textile, Garments, Toys products (Textile Metal Glass, Plastic, stone Leather	Determination of Sharp Edges Under a force of up to 8.90 N (2 Pound)	EN/ BS EN 71 PART 1- CLAUSE-8.11:2014. 16 CFR 1500.49 (Sharp Edges), ASTM F 963-17, Sec. 4.7(Sharp Edges)	Qualitative



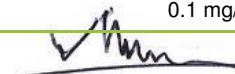
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	Accessories) in Garments, Metal Jewelry, other article intended to use for children			
26	Textile, Garments, Toys products	Safety of children's clothing. Cords and drawstrings on children's clothing. Specifications	EN 14682: 2014 GB/T 22702: 2019 GB/T 22705: 2019 ASTM F 1816-97(2009)	Qualitative
27	Leather	Thickness	ISO 2589:2016	0.1 mm to 50 mm
28	Leather and Footwear	Flexing Resistance - Whole Shoe _Room Temp to Low Temp.	SATRA TM 92:2016	Qualitative (up to 999999)
29	Leather and Footwear	Flexing Resistance - Outsole (Ross) _Room Temp to Low Temp.	SATRA TM60:1992 ISO 5423: 1992 Annex C ISO 4643:1992 (R2013) Annex C	Qualitative (up to 999999)
30	Leather and Footwear	Flexing Resistance - Outsole (Bennewart) _Room Temp to Low Temp	SATRA TM 161:1992 ISO 17707:2005	Qualitative (up to 999999)
31	Leather and Footwear	Abrasion Resistance - Outsole (Drum)Low Temp.	SATRA TM 174:2016 ASTM D 5963-04(2015) ISO 4649:2017 DIN EN 12770: 2000	1 mm <sup>3</sup> to 1500mm <sup>3</sup>
32	Leather and Footwear	Martindale Abrasion Resistance	SATRA TM31:1992 DIN EN 13520:2005	Qualitative (up to 999999)
33	Leather and Footwear	Peel Strength of Footwear Sole Bonds	SATRA TM411: 2019 ISO 17708: 2018	2 N/mm to 100 N/mm
34	Leather and Footwear	Lastometer Ball Burst Test	SATRA TM24:2017 ASTM D2207-00(2015) ISO 3379:2015	0.1 kg to 80 kg, 0.1 mm to 15mm
35	Leather and Footwear	Attachment Strength of Eyelets	SATRA TM150:1999	2 N to 2500N
36	Leather and Footwear	Attachment Strength of Shoe Lace Tags	SATRA TM 175:2018 ASTM D 2240-15e1 DIN 53505:2000 ISO 7619:2010 ISO 868: 2003	2 N to 2500N
37	Leather and Footwear	Hardness of PU, Plastics and Rubber - IRHD, Shore	SATRA TM 205:2017 ISO 2420:2017	10 to 90
38	Leather and Footwear	Density of Leather, Leather board, Insole board, Insole material	SATRA TM 12:2016 ISO 2781:2018	0.1 to 10 g/cm <sup>3</sup>
39	Leather and	Density of Materials by volume	SATRA TM 134:2010	0.1 mg/mm <sup>3</sup> to 5



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	Footwear	displacement	ISO 11640 :2018 ISO 17700:2019	mg/mm <sup>3</sup>
40	Leather and Footwear	Colour fastness to Rubbing - Veslic	ISO 11640:2018 ISO 17700:2019 SATRA TM 173:1995	Qualitative (Grade 1 to 5)
41	Leather and Footwear	Colour fastness to Rubbing - (Crock meter)	SATRA TM 167:2017 BS EN ISO 20433:2012	Qualitative (Grade 1 to 5)
42	Leather and Footwear	Colour fastness to Perspiration	SATRA TM 335:2018 ISO 11641:2012	Qualitative (Grade 1 to 5)
43	Leather and Footwear	Colour fastness to water	SATRA TM 335:2018 ISO 11642:2012	Qualitative (Grade 1 to 5)
44	Leather and Footwear	Colour fastness to water spotting	ISO 15700:1998	Qualitative (Grade 1 to 5)

### Field: Chemical Testing

01	Textile, Garment & Accessories	Dimensional stability to washing	ISO 6330 – 2012, BS EN ISO 6330 - 2012, ISO 5077 - 2007, ISO 3759 - 2011, AATCC 135-2018, AATCC 150-2018. AS 2001.5.4:2005 GB/T 8628-2013 GB/T 8629-2001 GB/T 8630-2013 SASO ISO 3759:2011 SASO 2400/2005 SASO 2140/2003	Elongation & Shrinkage 0 to 50%
02	Textile, Garment & Accessories	Dimensional stability to dry cleaning	ISO/ BSEN ISO 3175-1&2 :2018, ISO 3175 - 3: 2018 ISO 3175 - 4:2003 / Cor1: 2009, AATCC 158:2016.	0 to ± 50%
03	Textile, Garment & Accessories	Appearance after fabric after repeated home laundering	AATCC 124 - 2018, ISO 7768 – 2009	Grade: SA -1 to SA – 5
04	Textile, Garment & Accessories	Smoothness of seams in fabrics fabric after repeated home laundering	AATCC 88B – 2018, ISO 7770 -2009, BS ISO 7770 - 2009	Grade: SS -1 to SS – 5
05	Textile, Garment & Accessories	Retention of creases in fabrics after repeated home laundering	AATCC 88C – 2018, ISO 7769 -2009, BS ISO 7769 - 2009	Grade: CR -1 to CR - 5



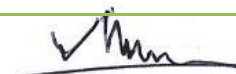
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
06	Textile, Garment & Accessories	Appearance of apparel and other textile products after repeated home laundering	AATCC 143 : 2018 ISO 15487 : 2009	Grade: SA -1 to SA – 5 Grade : SS -1 to SS – 5 Grade : CR -1 to CR - 5
07	Textile, Garment & Accessories	Appearance (visual assessment) after laundering	GTP_Phy_CPS_25195A GTP_Phy_CPS_60107A	1 to 5 Grade Spirality : Up to ± 50 %
08	Textile, Garment & Accessories	Assessing appearance of apparel and other textile end products after domestic washing and drying	ISO 15487 - 2009	Grade : SA -1 to SA – 5 Grade : SS -1 to SS – 5 Grade : CR -1 to CR - 5
09	Textile, Garment & Accessories	Spirality / Skewing of fabrics & garment	AATCC 179 - 2019, ISO 16322-1: 2005, ISO 16322-2: 2005/ Cor 1:2007, ISO 16322-3 : 2005	Up to ±50%
10	Textile, Garment & Accessories	Bow & Skewness	ASTM D3882 – 08 (2016) e1	Up to ±50%
11	Textile, Garment & Accessories	Durability wash of garment/ Print/motif/applique/embroidery	GTP_Phy_CPS_25200A	Qualitative
12	Textile, Garment & Accessories	Colour fastness to washing	ISO 105 C06-2010 , BS EN ISO 105 C06 - 2010, ISO 105 C08-2010, ISO105 CO9-2001(Amd1-2003), ISO 105 C10-2006, AATCC 61-2013, CAN/CGSB-4.2 No.19.1 – 2004 (R2013), AS 2001.4.15 – 2006 GB/T 12490-2014; GB/T 3921-2008 SASO 2329/2005	1 to 5 Grade
13	Textile, Garment & Accessories	Colour fastness to perspiration	ISO 105 E04-2013 BS EN ISO105 E04-2013 AATCC 15-2013 CAN/CGSB 4.2 No.23 -M 90: (R2013) AS 2001.4.E04 – 2005 GB/T 3922-2013 SASO 171/GS 1268:2002	1 to 5 Grade
14	Textile, Garment & Accessories & Leather	Colour fastness to rubbing / crocking	AATCC 8-2016, ISO 105 X12 – 2016 AS 2001.4.3 – 1995, CAN/CGSB 4.2 No. 22 – 2004(R2013), GB/T 3920-2008 ISO 11640:2012	1 to 5 Grade



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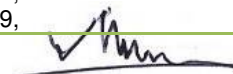
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			SASO 2330/2005	
15	Textile, Garment & Accessories	Colour fastness to water	ISO105 E01-2013 BS EN ISO 105 E01-2013 AATCC 107-2013 AS 2001.4.E01 - 2001, CAN/CGSB 4.2 No.20 – M 89(R2013), GB/T 5713-2013	1 to 5 Grade
16	Textile, Garment & Accessories	Colour fastness to sea water	ISO 105 E02 - 2013 BS EN ISO 105 E02 – 2013, AATCC 106-2013 AS 2001.4.E02 - 2001, CAN/CGSB 4.2 No.21 - M90	1 to 5 Grade
17	Textile, Garment & Accessories	Colour fastness to chlorinated water (swimming pool water)	ISO 105 E03-2010, BS EN ISO 105 E03-2010 AS 2001.4.5:2001	1 to 5 Grade
18	Textile, Garment & Accessories	Colour fastness to dry cleaning	ISO 105 D01-2010 AATCC 132-2013 BS EN ISO 105 D01-2010 GB/T 5711-1997 SASO 2324/2005	1 to 5 Grade
19	Textile, Garment & Accessories	Colour fastness to water spotting	ISO 105 E07-2010 AATCC 104-2014	1 to 5 Grade
20	Textile, Garment & Accessories	Colour fastness to acid / acid spotting	ISO 105 E05-2010 AATCC 6-2016	1 to 5 Grade
21	Textile, Garment & Accessories	Colour fastness to alkali / alkali spotting	ISO 105 E06-2006 AATCC 6-2016	1 to 5 Grade
22	Textile, Garment & Accessories	Colour fastness to bleaching (Hypochlorite/Peroxide)	ISO 105 N01 – 1993 ISO 105 N02 – 1993	1 to 5 Grade
23	Textile, Garment & Accessories	Colour fastness to organic solvents	ISO 105 X05-1994	1 to 5 Grade
24	Textile, Garment & Accessories	Colour fastness to Phenolic Yellowing	ISO 105 X18 - 2007	1 to 5 Grade
25	Textile, Garment & Accessories	Colour fastness to hot pressing	AATCC 133 - 2013, BS EN ISO 105 X11: 1996, ISO 105 X11 - 1994	1 to 5 Grade
26	Textile, Garment & Accessories	Fibre analysis- Qualitative & Quantitative	AATCC 20-2013 AATCC 20A-2018 ISO 1833 Part 1:2006 ISO 1833 Part 3:2019 ISO 1833 Part 4: 2017, ISO 1833 Part 6: 2007, ISO 1833 Part 7: 2017, ISO 1833 Part 11: 2017, ISO 1833 Part 12: 2019,	Up to 100%



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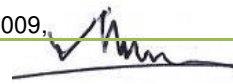
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			ISO 1833 Part 20: 2018. SASO 781/GS 431 : 1994 EU 1007/2001 GB/T 2910:2009 FZ/T 01057: 2007 AS 2001.7-2005 ASTM D 629 – 15	
27	Textiles, Leather, Toys, Polymers (Fibers, Yarns, Fabrics, Garments and Their Accessories and Chemicals	Presence of Odor	LAB_P_SOP_134: 2010. (based on SNV 195651-1968) GB 18401:2010, clause 6.7	Qualitative test
28	Textile, Garment & Accessories	Colour fastness to Light	ISO105 B02-2014 AATCC 16.3 – 2014 BS EN ISO 105 B02 – 2014 AS 2001.4.B02:2001 GB/T 8427-2008	BWS: 1 to 8 Grade: 1 to 5 BWS: 1 to 8
29	Textile, Garment & Accessories	Colour fastness to non chlorine Bleaching in home Laundering	AATCC 172 – 2016	1 to 5 Grade
30	Textile, Garment & Accessories	Colour fastness of zipper to laundering	ASTM D2057 - 05(2015)	1 to 5 Grade
31	Textile, Garment & Accessories	Durability of finish of zippers to laundering	ASTM D 2051 –2014	1 to 5 Grade
32	Textile, Garment & Accessories	Colour fastness to Dye transfer in storage/ Sublimation in storage	AATCC 163 – 2013 JIS L 0854 – 2013 DIN 54056: 2017	1 to 5 Grade
33	Textile, Garment & Accessories	Colour fastness to Sweat and Saliva	DIN 53160 -1 & 2 : 2010, Section 35 LMBG 82.10:1985 GB/T 18886 :2019	1 to 5 Grade
		Flammability of Apparels	CPSC 16 CFR 1610, ASTM D 1230-17 GB/T 14644:2014	
34	Textile, Garment & Accessories	Flammability of Textile Clothing & Night wear	BS 5438: 1989 Tests 2A & 2B, BS 5438: 1976 Tests 1 & 2, BS 5438: 1976 Test 3, BS 5722: 1991 Test 2A, BS 6249: 1982 Part 1, BS EN 1101: 1996 (80 x 80mm), BS EN 1101: 1996 (200 x 80mm), BS EN 1102: 1996, BS EN 1103: 2005, EN 14878:2007/ AC: 2009,	1 sec. – 3600 sec

  
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			BS EN 13772: 2011, BS EN ISO 6940: 2004, BS EN ISO 6941: 2003, BS EN ISO 15025: 2002 Tests A & B, EN 71-2: 2011+A1:2014 AS/NZS 1249:2014	
		Flammability of Children's Sleepwear	16 CFR 1615 / 1616	0 – 25.4 cm (0-10inch)
35	Textile, Garment & Accessories	Dimensional Change of Fabric induced by free Steam	BS 4323 – 1979, ISO 3005 – 1978	(0 – 40) %
36	Textile, Garments and Accessories	Shade variation (colour change & Staining)	Based on AATCC Evaluation Procedure 1 & 2- 2018, ISO 105 A01: 2010 & A02:1993/Cor 2:2005,	1 to 5 Grade
37	Textile, Garment & Accessories	Absorbency of Textile	AATCC 79 -2014	1-60 +Seconds
38	Textile, Garment & Fabrics	Wicking of Textile	Vertical Water Penetration GTP_Phy_CPS_25203A AATCC 197-2013	2 to 30 min
39	Accessories	Corrosion	GTP_Phy_CPS_25197A ISO 22775 :2004	1 to 5 Grade
		<b>Poly Chlorinated Phenols</b>		
		2,3,5- Tri chloro phenol		
		2,3,6- Tri chloro phenol		
		2,4,6- Tri chloro phenol		
		2,3,4- Tri chloro phenol		
		2,4,5- Tri chloro phenol		
		2,3,4,5-Tetra chloro phenol	GTP_Chem_CPS_25119B.201 6	
		2,3,5,6-Tetra chloro phenol	(Based on BVL B 82.02-8:2001; GB/T 18414.1	0.05 mg/kg-
		2,3,4,6-Tetra chloro phenol	GB/T 18414.2	2.50mg/kg
		Penta chloro phenol	GB/T 24166	
		o-Phenyl phenol	ISO 17070 -2015, by GC-MS)	
		2,4,6- Tri bromo phenol		
		3,4,5- Trichlorophenol		
		2-Chlorphenol		
		3-Chlorphenol		
		4-Chlorphenol		
		2,3-Dichlorphenol		



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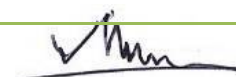
**Accreditation Standard:** ISO/IEC 17025:2017 **Accreditation Date:** 16 April 2015

**Certificate Number:** 01.022.15 **Issued on:** 01 Dec 2019

**Last Amended on:** 01 Dec 2019 **Valid until:** 03 April 2021

**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
		2,4-Dichlorphenol		
		2,5-Dichlorphenol		
		2,6-Dichlorphenol		
		3,4-Dichlorphenol		
		3,5-Dichlorphenol		
		<b>Poly Chlorinated Phenols</b>		
		2,3,5- Tri chloro phenol		
		2,3,6- Tri chloro phenol		
		2,4,6- Tri chloro phenol		
		2,3,4- Tri chloro phenol		
		2,4,5- Tri chloro phenol		
		2,3,4,5-Tetra chloro phenol		
		2,3,5,6-Tetra chloro phenol		
		2,3,4,6-Tetra chloro phenol		
41	Leather its accessories , components and allied materials and footwear	Penta chloro phenol	GTP_Chem_CPS_25119B.2016	
		o-Phenyl phenol	(Based on BVL B 82.02-8:2001	0.05 mg/kg-
		2,4,6- Tri bromo phenol	ISO 17070 -2015, by GC-	2.50mg/kg
		3,4,5- Trichlorophenol	MS/GC-ECD)	
		2-Chlorphenol		
		3-Chlorphenol		
		4-Chlorphenol		
		2,3-Dichlorphenol		
		2,4-Dichlorphenol		
		2,5-Dichlorphenol		
		2,6-Dichlorphenol		
		3,4-Dichlorphenol		
		3,5-Dichlorphenol		
		<b>Determination of Aromatic Amines</b>	GTP_Chem_CPS_25103B.2016	
		O-Toluidine	6 (Based on	
		3,3 Dimethyl benzidine	BS EN 14362-1:2017	
		2 Methoxy -5- methyl aniline	BS EN 14362-3:2017	
		3,3' Dichloro benzidine	BS EN 14362-1:2012	
42	Textiles its accessories, components, chemicals/raw materials.	4 Chloro aniline	BS EN 14362-3:2012	5 mg/kg-100 mg/kg
		2,4,5-Trimethylaniline	BVL B 82.02-3:2015	
		1,4-Phenyldiamine	BVL B 82.02-4:2013	
		Aniline	GB/T 17592:2011	
		2,4-Diamino Anisole	KS K 0147:2015 And	
			KS K 0734-2012	
			SN/T 1045.1	



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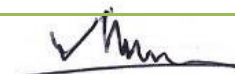
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		2,4-Diaminotoluene	SN/T 1045.2	
		3,3 Dimethoxy Benzidine	SN/T 1045.3	
		O-Anisidine	by GC-MS/UPLC-DAD)	
		4 Amino Biphenyl		
		4-Chloro-O-Toluidine		
		4,4 Methylene bis (2 chloroaniline)		
		O-Aminoazotoluene		
		5-Nitro-Otoluidine		
		2-Naphthylamine		
		4,4 Diaminophenylmethene		
		4-4-Methylenedi-o-toluidene		
		2,4-Xylidine		
		4-4 Oxydianiline		
		4,4-Thiodianiline		
		2,6-Xylidine		
		4,4-Benzidine		
		4-aminoazobenzene		
		<b>Determination of Aromatic Amines</b>		
		O-Toluidine		
		3,3 Dimethyl benzidine		
		2 Methoxy -5- methyl aniline	GTP_Chem_CPS_25193A.2016	
		3,3' Dichloro benzidine	(Based on	
		4 Chloro aniline	BS EN ISO 17234-1:2015	
		2,4,5-Trimethylaniline	BS EN ISO 17234-2:2011	
		1,4-Phenyldiamine	BVL B 82.02-2:2013	
		Aniline	BVL B 82.02-3:2015	
		2,4-Diamino Anisole	BVL B 82.02-4:2013	
43	Leather its accessories, components and allied materials and footwear	2,4-Diaminotoluene	GB/T 17592:2011	5 mg/kg-100 mg/kg
		2,4-Diaminotoluene	GB/T 19942:2005	
		3,3 Dimethoxy Benzidine	by GC-MS/UPLC-DAD	
		O-Anisidine	And	
		4 Amino Biphenyl	BS EN 14362-1:2017	
		4-Chloro-O-Toluidine	BS EN 14362-3:2017	
		4,4 Methylene bis (2 chloroaniline)	by GC-MS/UPLC-DAD)	
		O-Aminoazotoluene		
		5-Nitro-Otoluidine		
		2-Naphthylamine		



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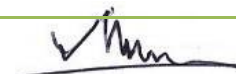
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		4,4 Diaminophenylmethene		
		4-4-Methylenedi-o-toluidene		
		2,4-Xylidine		
		4-4 Oxydianiline		
		4,4-Thiodianiline		
		2,6-Xylidine		
		4,4-Benzidine		
		4-aminoazobenzene		
		<b>Determination of Disperse Dyes</b>		
		Disperse Yellow-23		
		Disperse Yellow-9		9 mg/kg-150mg/kg
		Disperse Yellow-1		
		Disperse Brown-1		
		Direct Brown-95		
44	Textiles & Leather, its accessories, components, chemicals/raw materials and footwear.	Disperse Blue 124		
		Disperse Yellow 49		
		Disperse Blue 102		
		Disperse Blue 7		
		Disperse Red 17		
		Disperse Blue 106	GTP_Chem_CPS_25167B.2016	
		Disperse Orange 1	(Based on	
		Basic Violet 14	DIN 54231:2005	
		Disperse Blue 26	ISO 16373-2:2014	
		Disperse Blue 3	ISO 16373-3:2014	
		Disperse Yellow 39	KS K 0736:2014	
		Basic Red-9	GB/T 20383	
		Disperse Blue-35	GB/T 30398)	
		Disperse Yellow-3		
		Disperse Red-11		
		Disperse Blue-1		
		Disperse Orange-3		
		Disperse Orange-11		
		Disperse Orange 37/76/59		
		Disperse Red-1		
		Disperse Orange 149		
		Solvent Yellow 1		
		Solvent Yellow 2		



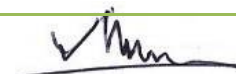
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<b>Amendment no:</b>	<b>01</b>		

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		Solvent Yellow 3		
		Sudan 1		
		Solvent Blue 4		
		Acid Violet 49		
		<b>Carcinogenic Dyestuff:</b>		
		Acid Red 26		
		Basic Red 9		
		Disperse Black 38		
		Basic Blue 6		
		Basic Blue 26		
		Direct Blue 6		
		Direct Black 38		
		Direct Red 28		
		Basic Violet 1		
		Basic Violet 3		
		Basic Violet 14		
		Disperse Orange 11		
		Disperse Blue 1		
		Disperse Yellow 3		
		Disperse Yellow 56		
		Disperse Yellow 7		
		Sudan 1		
		Basic green 4		
		Navy Blue		
		<b>Determination of Phthalate Esters</b>		
45	Textile and Leather, Accessories, Components, chemicals/raw materials.	Di N-Octyl phthalate	GTP_Chem_CPS_25175B.2016	
		Di iso nonyl phthalate	(Based on CPSC-CH-C-1001-09.4,	
		Benzyl butyl phthalate	ISO 14389: 2014	
		Di Butyl phthalate	And	50 mg/kg-2000
		Di iso decyl phthalate	GB/T 20388; GB/T 22048:2015;	mg/kg (0.005%-
		Di iso butyl Phthalate	ISO/TS 16181:2011	0.20%)
		Di-n -Hexyl Phthalate	IEC 62321-1:2013	
		Bis(2-methoxyethyl)Phthalate	BS EN14372: 2004	
		Di iso Pentyl Phthalate	GB/T 24168-2009	
		n-Pentyl iso – Pentyl Phthalate	EN 62321-8)	
		Di-n- Pentyl Phthalate		



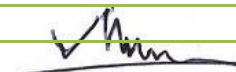
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		Di -isohexyl Phthalate		
		1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich		
		Bis-2-ethylhexyl ester		
		Bis-ethyl ester		
		1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters.		
46	Textile and Leather, its accessories, components, chemicals/raw materials and allied materials and footwear	<b>Determination of Chlorinated organic carriers</b>	GTP_Chem_CPS_25105B.2016(Based on DIN 54232-2010)	0.10 mg/kg-10mg/kg
		Chlorotoluenes:		
		α, α, α, 2-Tetrachlorotoluene		
		α, α, α, 4-Tetrachlorotoluene		
		α, α 2,6-Tetrachlorotoluene		
		2,3,4,5,6-Pentachlorotoluene		
		2,3,6-Trichlorotoluene		
		2,4,5-Trichlorotoluene		
		3,4-Dichlorotoluene		
		2,3-Dichlorotoluene		
		2,6-Dichlorotoluene		
		2,5-Dichlorotoluene		
		2,4-Dichlorotoluene		
		α, α, α-Trichlorotoluene		
		Benzyl Chloride		
		4-Chlorotoluene		
		3-Chlorotoluene		
		2-Chlorotoluene		
		2,4-Dichlorotoluene		
		Chlorobenzenes:		
		Hexachlorobenzene		
		Pentachlorobenzene		
		1,3,5-Trichlorobenzene		
		1,2,3,4-Tetrachlorobenzene		
		1,2,4,5-Tetrachlorobenzene		
		1,2,3,5-Tetrachlorobenzene		
		1,2,3-Trichlorobenzene		



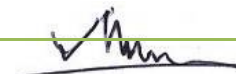
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		1,2,4-Trichlorobenzene		
		1,2-Dichlorobenzene		
		1,4-Dichlorobenzene		
		1,3-Dichlorobenzene		
		<b>Determination of Organotin compounds</b>		
		Di-butyl tin	GTP_Chem_CPS_25125B.201	
		Tri-butyl tin	6	
		Mono-butyltin	(Based on ISO/TS 16179:2012	
		Mono-n-octyltin	By GC-MS And	
		Di-n-octyltin	ISO 17353-2004	0.025mg/kg-1mg/kg
		Tetra-butyltin	DIN 38407-13-2001	
		Tri-phenyltin	By GC-MS)	
		Tri-n-propyltin		
		Tri-cyclohexyltin		
		Trioctyltin		
		<b>Determination of Per Fluorinated Compounds</b>		
		PFOA 335-67-1	GTP_Chem_CPS_25130B.201	
		PFOS 2795-39-3	6	
		PFHxA 307-24-4	CEN/TS 15968:2010	1mg/kg-100 mg/kg
		PFHpA 375-85-9	GB/T 29493.2-2013)	
		PFHxS 355-46-4		
		PFNA 375-95-1		
		PFDA 335-76-2		
		PFA 2058-94-8		
		PFBS 375-73-5		
		PFDoA 307-55-1		
		PFTDA 72629-94-8		
		PFOS-NH2 754-91-6		
		PFTA 376-06-07		
		4:2 FTOH 2043-47-2		
		6:2 FTOH 647-42-7		
		8:2 FTOH 678-39-7		
		10:2 FTOH 865-86-1		
			GTP_Chem_CPS_25129B.201	0.10 mg/kg-1mg/kg
			6	
			ISO/TS 16186:2012)	
47	Textiles & Leather its accessories, components, chemicals/raw materials.			
48	Textiles & Leather, its accessories, components, chemicals/raw materials and footwear.			
49	Textiles & Leather, its accessories, components and	Determination of Dimethyl fumarate 624-49-7		



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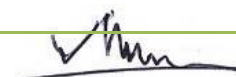


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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	allied materials and footwear			
50	Textiles & Leather its accessories, components and allied materials and footwear	Determination of Dimethyl formamide 68-12-2	GTP_Chem_CPS_25126B.2016 ISO/TS 16189:2013)	5 mg/kg – 50 mg/kg
51	Textiles & Leather its accessories, components, chemicals/raw materials and footwear	Determination of short Chain and medium chain Chlorinated paraffins (SCCP/MCCP)	GTP_Chem_CPS_25178B.2016 (CADS/ISO/FDIS 18219:2014 ISO 18219:2015)	20mg/kg-200mg/kg
52	Textiles its accessories, components, chemicals/raw materials.	<b>Determination of Polyaromatic Hydro carbons</b> Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(j)fluoranthene Benzo(k)fluoranthene Benzo(e)pyrene Benzo(a)pyrene Indeno(1,2,3-c,d)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	GTP_Chem_CPS_25106B.2016 (Based on AfPS GS 2014:01, US EPA 610 And US EPA 3550 GB/T 29493.4-2013)	0.10mg/kg-4mg/kg
53	Textiles & Leather its accessories, components, chemicals/raw materials and allied materials	<b>Determination of Alkyl Phenols and its Ethoxylates</b> Octylphenolethoxylates Nonylphenolethoxylates Nonylphenol (NP) Octylphenol (OP)	GTP_Chem_CPS_25101B.2016 (Based on Affirm method, ISO 18254:2016& EN ISO 18218-1 & 2:2015 GB/T 23972-2009)	10mg/kg-500mg/kg



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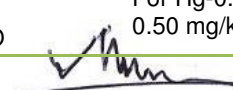
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	and footwear			
54	Textiles & Leather its accessories, components and allied materials and footwear	<b>Identification of Poly vinyl Chloride</b>	GTP_Chem_CPS_25128B.201 6	N/A
55	Textiles & Leather its accessories, components and allied materials and footwear	<b>2-Mercapto Benzo thiozole(2- MBT)</b>	GTP_Chem_CPS_25100B.201 6 (Based on EN 14350-2:2004)	5 mg/kg-100mg/kg
56	Textiles its accessories, components and allied materials	<b>Primary Aromatic Amines</b>	PPP_5.4_25017_SOP_CPS: 2011 (Based on EN 71-9:2005+A1: 2007, EN 71 – 10: 2005, EN 71- 11: 2005, EN 14362-1: 2017 by GC MS)	0.10mg/kg-60mg/kg
57	Leather its accessories, components and allied materials and footwear	<b>Primary Aromatic Amines</b>	PPP_5.4_25017_SOP_CPS: 2011 (Based on EN 71-9:2005+A1: 2007, EN 71 – 10: 2005, EN 71- 11: 2005, EN 17234-1: 2015 by GC MS)	0.10mg/kg-60mg/kg
58		<b>Determination of Extractable Heavy Metals and Total Heavy Metals</b>		
		Antimony (Sb)	GTP_Chem_CPS_25182B.201 6	
		Arsenic (As)		
	Textiles its accessories, components and allied materials	Lead (Pb)	(Based on BS EN 16711- 2:2015; ISO 105 EO4-2013; ISO 11885:2007;	0.05 mg/kg-25mg/kg
		Cadmium (Cd)	US EPA 3050, 3051,3052 by ICP-OES/ICP-MS)	For Hg-0.02mg/kg- 0.50 mg/kg
		Copper (Cu)		
		Cobalt (Co)		
		Chromium (Cr)		
		Nickel (Ni)		
		Mercury (Hg)		
		Selenium (Se)		
		Barium (Ba)		
59	Leather, its accessories, components and allied materials	<b>Determination of Extractable Heavy Metals including Soluble Mineral Tanning Agents Al, Zr, Ti, Cr and Total Heavy</b>	GTP_Chem_CPS_25173B.201 6 (Based on ISO 17072-1:2011,ISO	0.05 mg/kg-25mg/kg For Hg-0.02mg/kg- 0.50 mg/kg



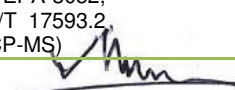
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<b>Amendment no:</b>	<b>01</b>		

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	and footwear	<b>Metals</b>	11885:2007, ISO 17294-2:2003 and DIN EN 14602:2012)	
		Antimony (Sb)		
		Arsenic (As)		
		Lead (Pb)		
		Cadmium (Cd)		
		Copper (Cu)		
		Cobalt (Co)		
		Chromium (Cr)		
		Nickel (Ni)		
		Mercury (Hg)		
		Aluminum (Al)		
		Zirconium (Zr)		
		Titanium (Ti)		
60	Toys, Children products and Textile and accessories	<b>Determination of Soluble Heavy Metals</b>	EN 71-3:2019	5.0 mg/kg-250 mg/kg
		Selenium (Se)		
		Zinc (Zn)		
		Barium (Ba)		
		Tin (Sn)		
		Manganese, (Mn)		
		Strontium, (Sr)		
		Boron (B)		
		Aluminum (Al)		
		Lead, Pb		
		Antimony, Sb		
		Arsenic, As		
		Cadmium, Cd		
		Cobalt, Co		
		Chromium, Cr		
		Nickel, Ni		
		Copper, Cu		
		Mercury Hg		
61	Textiles its accessories, components, chemicals/raw materials.	<b>Cadmium (Cd)</b>	GTP_Chem_CPS_25182B.2016 (Based on CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, CPSC-CH-E1003-09.1, BS EN 1122: 2001, CEN/TS 14495: 2003, EPA-3052, GB/T 30157: 2013, GB/T 17593.2 Analysis by ICP –OES/ICP-MS)	5 mg/kg-500 mg/kg



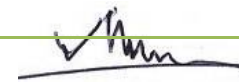
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<b>Accreditation Standard:</b>	<b>ISO/IEC 17025:2017</b>	<b>Accreditation Date:</b>	<b>16 April 2015</b>
<b>Certificate Number:</b>	<b>01.022.15</b>	<b>Issued on:</b>	<b>01 Dec 2019</b>
<b>Last Amended on:</b>	<b>01 Dec 2019</b>	<b>Valid until:</b>	<b>03 April 2021</b>
<b>Amendment no:</b>	<b>01</b>		

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
62	CPSC–Paint and painted articles, Children metal products, Metal jewellery and non metal children products) Paint, Textile, Leather, Polymer, Paper, metallic accessories, Toys, Chemicals/raw materials and other similar surface coatings	<b>Determination of Lead &amp; Cadmium content and Total Heavy Metals (Pb, Cd, Cr &amp; Hg)</b>	GTP_Chem_CPS_25132B.2016;GT P_Chem_CPS_25133B.2016;GTP_Chem_CPS_25134B.2016; (based on CPSC CH E1001-08.3, CPSC CH E1002-08.3, CPSC CH E1003-09.1 16CFR-1303; BS EN 16711-1:2015;UNE/CR 13695-1; UNE-CEN/TR 13695-2;TPCH: Directive 2004/12/EC ,ASTM E1613-04,ASTM E1645-01, EPA-3052,ASTM F963-17, GB/T 30157: 2013, GB/T 17593.2) by ICP –OES/ICP-MS)	Pb:10 mg/kg-625 mg/kg Cd:5-1000 mg/kg THM: Pb, Cd, Cr & Hg: 10mg/kg
63	Metals – Coated, Non-coated metals and accessories.	<b>Determination of Nickel Qualitative test</b>	PD CR 12471-2002	N/A
64	Metals	<b>Determination of Nickel Release</b>	Based on EN 1811-2011+AC:2015 BS EN 12472-2005+A1 2009) by ICP-OES/ ICP-MS)	0.1ug/cm2/week-
		Nickel Content (Ni)	EN 1810 – 1998 Analysis By ICP -OES/ICP-MS	10 mg/kg
65	Glass/ Ceramic/ Enamelware's /Cookware	<b>Leachable/Extractable Lead, Cadmium</b>	GTP_Chem_CPS_25530B.2016 (Based on ISO 4531-1: 1998; ISO 7086-1: 2005; ISO 6486-1:1999; DIN EN 1388-1 & 2: 1995 ISO 3696:1987 Analysis By ICP-OES/MS)	0.10 mg/kg-25mg/kg
66	TPCH & RoHS (Packaging Materials, Restriction of hazardous Substances as per 2002/95/EC- Electro technical and Electrotechnical materials, waste and Related materials, Chemicals/ Auxiliaries)	<b>Heavy Metals</b>		
		Determination of Lead(Pb)		
		Determination of Cadmium(Cd)		
		Determination of Mercury(Hg)	GTP_Chem_CPS_25172B.2016 (based on IEC 62321, EPA 3052, EPA 3060A, CPCS-CH-1002-08, CPCS-CH-1003-09, BS EN 16711-1:2015, ISO 17072-2:2011 by XRF, ICP-OES/ICP-MS and UV VIS)	10 mg/kg-625mg/kg
		Determination of ChromiumCr(III)& (VI)		
		Determination of Polybrominateddiphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)		



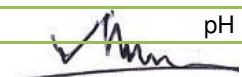
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67	Textiles & Leather its accessories , components, chemicals/raw materials and footwear	<b>Flame Retardants</b>	GTP_Chem_CPS_25166B.2016 (Based on ISO/FDIS 17881-1 & 2:2016 And IEC 62321, GB/T 24279, GB/T 29493.1-2013 or Solvent extraction and analysis by GC-MS or LC-MS ASTM D6413 / D6413M)	5 mg/kg- (for GC-MS) 0.5mg/kg (for LC-MS/MS-MS.)
		Tris (2.3-dibromopropyl) Phosphate		
		Hexabromo-cyclododecane		
		Tris (2-Chloroethyl) Phosphate		
		Polybrominated biphenyls		
		Tris-(aziridiny)-phosphate		
		Pentabromodiphenyl ethers		
		Octabromodiphenyl ethers		
		Decabromodiphenyl ethers		
		Bis-(2,3-dibromopropyl) phosphate		
		Tris(1,3-dichloro-2-propyl) phosphate		
		Tetrabromodiphenyl ether		
		Hexabromodiphenyl ether		
		Heptabromodiphenyl ether		
		Tris (1-chloro-2-propyl)phosphate		
68	Textiles & Leather, accessories , components, chemicals/raw materials and footwear	<b>Volatile Organic Compounds (VOCs) in Textile, Leather &amp; Related Materials</b>	GTP_Chem_CPS_25171B.2016	1-1000 mg / kg
		Dimethyl formamide (DMFA)		
		Acetophenone		
		2-Phenyl-2-Propanol		
		Formamide		
		1-Methyl-2-pyrrolidone (NMP)		
69	Textiles its accessories , components and allied materials	<b>Determination of pH of aqueous Extract</b>	ISO 3071-2005 AATCC 81 – 2012 GB/T 7573: 2009 SASO 2144/2003,	pH 1-14
70	Leather its	<b>Determination of pH of aqueous</b>		pH 1-14



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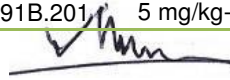
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	accessories, components and allied materials and footwear	<b>Extract</b>	ISO 4045-2018	
71	Textiles its accessories, components, chemicals/raw materials.	<b>Determination of Formaldehyde</b>	Based on ISO-14184- Part1& 2 - 2011, AATCC 112 – 2014 LFGB 82.02-1 – 1985 JIS L 1041 – 2011 GB/T 2912.1: 2009 (Free), GB/T 2912.2: 2009 (Releasable) SASO 2146/2003 SASO 2143/2003	16 mg/kg-600mg/kg
72	Leather its accessories , components and allied materials and footwear	<b>Determination of Formaldehyde</b>	PPP_5.4_25040_SOP_CPS (Based on ISO 17226-1:2018 by UPLCBS-EN -ISO 17226-2:2018 / Cor 1:2009; LFGB 82.02-1 – 1985 GB/T 19941)	16 mg/kg- 600 mg/kg
73	Leather its accessories , components and allied materials and footwear	<b>Determination of Hexavalent Chromium</b>	GTP_Chem_CPS_25151B-2016(Based on ISO/DIS 17075-1-2017, ISO/DIS 4044, GB/T 17593-3; BVL B 82.02-11:2008)	3 mg/kg-150 mg/kg
74	Leather its accessories, components and allied materials and footwear	<b>Global migration</b>	LAB_P_SOP_178: 2012 (Based on EN 1186 ff. 2002, EC -10/2011)	
75		<b>Determination of Other Phenols excluding Chlorophenols</b>		2 mg/kg-20 mg/kg
		Nonylphenol (NP) 104-40-5 / 25154-52		
	Textiles, Leathers, Prints, Coated materials and plastics, their related materials and Chemicals.	Octylphenol (OP) 140-66-9	GTP_Chem_CPS_25102B.2016 (Based on ISO 18254-1:2016&ISO 18218-1*IULTCS/IUC 28-1: 2015,GB/T 23972-2009)	
		2,6-Dimethyl phenol (CAS No. 576-26-1)		
		p-Phenyl phenol (CAS No. 92-69-3)		
		2,4,6-TriBromo phenol (CAS No. 118-79-6)		
		Phenol (CAS No. 108-95-2)		
76	Leather, textiles	<b>Preserving Agents</b>	GTP_Chem_CPS_25191B.2016	5 mg/kg-100 mg/kg

  
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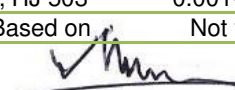
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	and related Materials	n-Octylisothiazolinon (OIT)	6 (Based on ISO 13365*IULTCS/IUC 29:2011)	
		2-Thiocyanomethylthiobenzothiazol (TCMTB)		
		p-Chlor-m-Kresol (CMK)		
		Triclosan		
		Orthophenylphenol (o-PP)		

**Field: Environmental Testing**

01		<b>Biochemical Oxygen Demand (BOD)</b>	APHA 23rd Edition: 2017	5.0- 15000.0 mg/l
02		<b>Chemical Oxygen Demand (COD)</b>	APHA 23rd Edition: 2017	5 – 50000 mg/l
03		<b>Electrical Conductivity</b>	USEPA METHOD #: 120.1-1982	1.0 – 35000.0 µs/cm
04		<b>Dissolved Oxygen (DO)</b>	USEPA METHOD #: 360.1-1971	1.0 – 15.00 mg/l
05		<b>pH Value</b>	LAB-P_SOP_377 (Based on ISO 10523-2008; USEPA 150.1; APHA 23 <sup>rd</sup> Ed-2017)	1.00 - 14.00
06		<b>Temperature</b>	USEPA 170.1; APHA -2550 23 <sup>rd</sup> Ed-2017	1.0°C to 100.00 °C
07		<b>Total Dissolved Solids</b>	APHA 23rd Edition: 2017	5.0 – 5000.0 mg/l
08	Discharged Wastewater, Raw Wastewater, Incoming Water, STP water	<b>Total Suspended Solids</b>	LAB-P_SOP_378 (Based on ISO 11923-1997; USEPA 160.2; APHA 2540D 23 <sup>rd</sup> Ed-2017)	5.0 – 5000.0 mg/l
09	Drinking water, STP water	<b>Colour [m-1] (436nm; 525; 620nm)</b>	ISO 7887-B	2; 1; 1
10		<b>Ammonical Nitrogen/ Ammonium-N</b>	USEPA 350.1, APHA 4500 NH <sub>3</sub> -N	0.5 – 100.00 mg/l
11		<b>Total-P</b>	USEPA 365.4, APHA 4500P-J	0.05 – 10.00 mg/l
		<b>Sulfide</b>	APHA 4500-S2-D; ISO 10530; GB/T 16489	0.01-10 mg/L
		<b>Total-N</b>	US EPA 351.2, APHA 4500P-J, APHA 4500N-C, ISO 5663, ISO 29441; HJ 636, GB 11891	5.0- 150.0 mg/l
12		<b>Oil and Grease</b>	LAB-P_SOP_376 Determination of Oil and Grease in Water & Waste Water (Based on APHA 23rd Edition 2017-5520 O & G - B & C)	0.5 – 100.00 mg/l
13		<b>Phenol</b>	APHA 5530 B, C&D; HJ 503	0.001-10 mg/l
14		<b>Foam (mg/L) (Persistent foam)</b>	TUV-SUD Inhouse (Based on	Not visible

  
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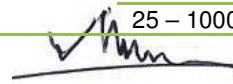
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15		<b>Sulfite</b>	APHA 23 Edition-2017 USEPA 377.1, APHA 23 Edition-2017	0.2-100 mg/l
		<b>Cyanide</b>	APHA 23rd Edn. 2017. 4500 CN-B	0.01-10 mg/l
16		<b>Heavy Metals</b>		
		Copper (Cu)		
		Iron (Fe)		
		Lead (Pb)		
		Cadmium (Cd)	LAB_P_SOP_383 year 2017	
		Manganese (Mn)	Revision no.:00 (Based on	
		Nickel (Ni)	EN ISO 11885-2007	
		Zinc (Zn)	USEPA 6010.C	0.005 – 10 mg/l,
		Mercury (Hg)	USEPA 6020.A	Mercury: 0.001 mg/l-5mg/l
		Selenium (Se)	APHA 23 <sup>rd</sup> Ed-2017EN ISO	
		Arsenic (As)	18412-2005, USEPA 218.6)	
		Chromium (Cr)		
		Cobalt (Co)		
		Silver (Ag)		
		Antimony (Sb)		
		Chromium VI		1 – 10000 µg/l
17	Discharged Wastewater, Raw Wastewater, Incoming Water, Drinking water, STP water	<b>Alkyl Phenols and its Ethoxylates</b>	LAB_P_SOP_372 year 2017 Revision no.:00(Based on ISO 18857 -2-2009, ASTM D7065, ISO 18254-1:2016)	
		Nonyl Phenol Ethoxylates(NPEO)		2.5 – 100000 µg/l
		Octyl Phenol Ethoxylates(OPEO)		2.5 – 100000 µg/l
		Nonyl Phenol(NP)		5 – 100000 µg/l
		Octyl Phenol(OP)		5 – 100000 µg/l
18	Discharged Wastewater, Raw Wastewater, Incoming Water, Drinking water, STP water	<b>Carcinogenic Dyes &amp; Allergenic Dyes</b>	LAB_P_SOP_373 year 2017 Revision no.:00 (Based on USEPA 8321B, USEPA 8270)	
		Disperse Yellow 1		25 – 100000 µg/l
		Disperse Blue 102		25 – 100000 µg/l
		Disperse Blue 106		25 – 100000 µg/l
		Disperse Yellow 39		25 – 100000 µg/l
		Disperse Orange 37/59/76		25 – 100000 µg/l
		Disperse Brown 1		25 – 100000 µg/l
		Disperse Orange 1		25 – 100000 µg/l
		Disperse Yellow 3		25 – 100000 µg/l
		Disperse Red 11		25 – 100000 µg/l
		Disperse Red 1		25 – 100000 µg/l
		Disperse Red 17		25 – 100000 µg/l
		Disperse Blue 26		25 – 100000 µg/l
		Disperse Blue 35		25 – 100000 µg/l

  
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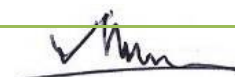


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		Disperse Blue 124		25 – 100000 µg/l
		Disperse Yellow 9		25 – 100000 µg/l
		Disperse Orange 3		25 – 100000 µg/l
		C.I. Direct Black 38		25 – 100000 µg/l
		C.I. Direct Blue 6		25 – 100000 µg/l
		C.I. Acid Red 26		25 – 100000 µg/l
		C.I. Basic Red 9		25 – 100000 µg/l
		C.I. Direct Red 28		25 – 100000 µg/l
		C.I. Basic Violet 14		25 – 100000 µg/l
		C.I. Disperse Blue 3		25 – 100000 µg/l
		C.I. Disperse Blue 1		25 – 100000 µg/l
		C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)		25 – 100000 µg/l
		C.I. Basic Green 4 (malachite green chloride)		25 – 100000 µg/l
		C.I. Basic Green 4 (malachite green oxalate)		25 – 100000 µg/l
		C.I. Basic Green 4 (malachite green)		25 – 100000 µg/l
		Disperse Orange 11		25 – 100000 µg/l
19		<b>Flame Retardants</b>		
		Tris(2-chloroethyl)phosphate		2.5 – 100000 µg/l
		Tris(2,3,-dibromopropyl)-phosphate		2.5 – 100000 µg/l
		Bis(2,3-dibromopropyl)phosphate		2.5 – 100000 µg/l
		Tris(1-aziridinyl)phosphine oxide)		2.5 – 100000 µg/l
		Tetrabromobisphenol A		2.5 – 100000 µg/l
		Hexabromocyclododecane		2.5 – 100000 µg/l
	Discharged Wastewater, Raw Wastewater, Incoming Water, Drinking water, STP water	2,2-bis(bromomethyl)-1,3-propanediol	LAB_P_SOP_375 year 2018 Revision no.:00 (Based on ISO22032-2006	2.5 – 100000 µg/l
		Tris(1,3-dichloro-isopropyl) phosphate	USEPA 527	2.5 – 100000 µg/l
		Decabromodiphenyl ether (DecaBDE)	USEPA 8321 B, USEPA 8270D:1998)	2.5 – 10000 µg/l
		Pentabromodiphenyl ether (PentaBDE)		2.5 – 10000 µg/l
		Octa-bromo-diphenyl-ether (OctaBDE)		2.5 – 10000 µg/l
		Polybromobiphenyls (PBB)		2.5 – 10000 µg/l
		Short-chain chlorinated Paraffins (SCCP) (C10-C13)		2.5 – 10000 µg/l
20	Discharged Wastewater, Raw Wastewater,	<b>Perfluorinated and Polyfluorinated Chemicals (PFCs)</b>	LAB_P_SOP_374 year 2018 Revision no.:00 (based on DIN 38407-42-2011)	



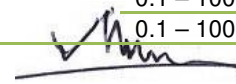
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	Incoming Water, Drinking water, STP water	PFOS		0.01 – 10000 µg/l
		PFOA		0.01 – 10000 µg/l
		PFBS		0.01 – 10000 µg/l
		PFHxA		0.01 – 10000 µg/l
		8:2 FTOH		0.5 – 10000 µg/l
		6:2 FTOH		0.5 – 10000 µg/l
21		<b>Banned Aryl Amines</b>		
		O-Toluidine		0.1 – 100000 µg/l
		3,3 Dimethyl benzidine		0.1 – 100000 µg/l
		2 Methoxy 5 methyl aniline (p-Cresidine)		0.1 – 100000 µg/l
		3,3' Dichloro benzidine		0.1 – 100000 µg/l
		4 Chloro aniline		0.1 – 100000 µg/l
		2,4,5 Trimethyl aniline		0.1 – 100000 µg/l
		4,4 Diamino 3,3, dimethyl diphenyl Methane		0.1 – 100000 µg/l
		4 Amino azo benzene		0.1 – 100000 µg/l
		4 Amino phenylthio ether (4,4'-THIODIANILINE)		0.1 – 100000 µg/l
	Discharged Wastewater, Raw Wastewater, Incoming Water, Drinking water, STP water	4 Amino phenyl ether (.p,p'-Oxydianiline)	LAB_P_SOP_386 year 2017	0.1 – 100000 µg/l
		3,3 Dimethoxy benzidine	Revision no.:00 (Based on En14362-1 & 3 :2017)	0.1 – 100000 µg/l
		4,4' Benzidine		0.1 – 100000 µg/l
		Bis 4 (amino phenyl) methane		0.1 – 100000 µg/l
		2 Anisidine		0.1 – 100000 µg/l
		o-amino azo toluene		0.1 – 100000 µg/l
		4 Amino bi phenyl		0.1 – 100000 µg/l
		4 chloro 2 methyl aniline		0.1 – 100000 µg/l
		2,4 Diamino toluene		0.1 – 100000 µg/l
		4,4 Methylene bis (2 chloroaniline)		0.1 – 100000 µg/l
		2 Amino naphthalene		0.1 – 100000 µg/l
		2 Amino 4 nitro toluene		0.1 – 100000 µg/l
		2,4-Xylidine		0.1 – 100000 µg/l
		2,6-Xylidine		0.1 – 100000 µg/l
		2,4-Diaminoanisole		0.1 – 100000 µg/l
		Aniline		0.1 – 100000 µg/l
	p-phenylene diamine		0.1 – 100000 µg/l	
22	Discharged Wastewater, Raw Wastewater, Incoming Water, Drinking water	<b>Chlorobenzenes and Chlorotoluenes</b>	LAB_P_SOP_387 year 2018	
		Monochlorobenzene	Revision no.:00 (based on EPA 8260B, EPA 8270D, DIN 54232:2010)	0.1 – 10000 µg/l
		1,2-Dichlorobenzene		0.1 – 10000 µg/l
		1,3-Dichlorobenzene		0.1 – 10000 µg/l

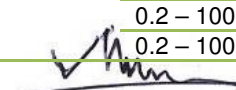
  
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	STP water	1,4-Dichlorobenzene		0.1 – 10000 µg/l
		1,2,3-Trichlorobenzene		0.1 – 10000 µg/l
		1,2,4-Trichlorobenzene		0.1 – 10000 µg/l
		1,3,5-Trichlorobenzene		0.1 – 10000 µg/l
		1,2,3,4-Tetrachlorobenzene		0.1 – 10000 µg/l
		1,2,3,5-Tetrachlorobenzene		0.1 – 10000 µg/l
		1,2,4,5-Tetrachlorobenzene		0.1 – 10000 µg/l
		Pentachlorobenzene		0.1 – 10000 µg/l
		Hexachlorobenzene		0.1 – 10000 µg/l
		2-Chlorotoluene		0.1 – 10000 µg/l
		3-Chlorotoluene		0.1 – 10000 µg/l
		4-Chlorotoluene		0.1 – 10000 µg/l
		2,3-Dichlorotoluene		0.1 – 10000 µg/l
		2,4-Dichlorotoluene		0.1 – 10000 µg/l
		2,5-Dichlorotoluene		0.1 – 10000 µg/l
		2,6-Dichlorotoluene		0.1 – 10000 µg/l
		3,4-Dichlorotoluene		0.1 – 10000 µg/l
		3,5-Dichlorotoluene		0.1 – 10000 µg/l
		2,3,4-Trichlorotoluene		0.1 – 10000 µg/l
		2,3,6-Trichlorotoluene		0.1 – 10000 µg/l
	2,4,5-Trichlorotoluene		0.1 – 10000 µg/l	
	2,4,6-Trichlorotoluene		0.1 – 10000 µg/l	
	3,4,5-Trichlorotoluene		0.1 – 10000 µg/l	
	2,3,4,5-Tetrachlorotoluene		0.1 – 10000 µg/l	
	2,3,5,6-Tetrachlorotoluene		0.1 – 10000 µg/l	
	2,3,4,6-Tetrachlorotoluene		0.1 – 10000 µg/l	
	Pentachlorotoluene		0.1 – 10000 µg/l	
23	Discharged Wastewater, Raw Wastewater, Incoming Water, Drinking water , STP water	<b>Chlorophenols</b>		
		2-chlorophenol		0.2 – 10000 µg/l
		3-chlorophenol		0.2 – 10000 µg/l
		4-chlorophenol		0.2 – 10000 µg/l
		2,3-dichlorophenol		0.2 – 10000 µg/l
		2,4-dichlorophenol		0.2 – 10000 µg/l
		2,5-dichlorophenol		0.2 – 10000 µg/l
		2,6-dichlorophenol	LAB_P_SOP_389 year 2018	0.2 – 10000 µg/l
		3,4-dichlorophenol	Revision no.:00 (Based on ISO	0.2 – 10000 µg/l
		3,5-dichlorophenol	14154 – 2005, USEPA 8270D)	0.2 – 10000 µg/l
		2,3,4-trichlorophenol		0.2 – 10000 µg/l
		2,3,5-trichlorophenol		0.2 – 10000 µg/l
		2,3,6-trichlorophenol		
		2,4,5-trichlorophenol		0.2 – 10000 µg/l
		2,4,6-trichlorophenol		0.2 – 10000 µg/l
	3,4,5-trichlorophenol		0.2 – 10000 µg/l	
	2,3,4,5-tetrachlorophenol		0.2 – 10000 µg/l	

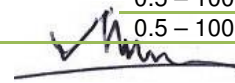
  
 Quality Manager

## SCOPE OF ACCREDITATION

(For Testing Laboratory)

**CAB Name & Address:** TÜV SÜD Bangladesh Pvt. Ltd., Update Tower, Level 7 & 8, 01 Shajalal Avenue, Sector -06, Uttara Model Town, Dhaka - 1230, Bangladesh  
**Accreditation Standard:** ISO/IEC 17025:2017 **Accreditation Date:** 16 April 2015  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		2,3,4,6-tetrachlorophenol		0.2 – 10000 µg/l
		2,3,5,6-tetrachlorophenol		0.2 – 10000 µg/l
		Pentachlorophenol		0.2 – 10000 µg/l
24	Raw Wastewater, Incoming Water, Drinking water, STP water	<b>Halogenated solvents</b> 1,2-dichloroethane Methylene chloride Trichloroethylene Tetrachloroethylene	LAB_P_SOP_399 year 2018 Revision no.:00 (Based on EPA 8260 B, EPA 5030 B; ISO - 11423 -1-1997)	0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l
25	Raw Wastewater, Incoming Water, Drinking water, STP water	<b>Glycols</b> Bis(2-methoxyethyl)-ether 2-ethoxyethanol 2-ethoxyethyl acetate Ethylene glycol dimethyl ether 2-methoxyethanol 2-methoxyethylacetate 2-methoxypropylacetate Triethylene glycol dimethyl ether	LAB_P_SOP_400 year 2018 Revision no.:00 (Based on EPA 8260 B; EPA 8270 D)	20 – 10000 µg/l 20 – 10000 µg/l 20 – 10000 µg/l 20 – 10000 µg/l 20 – 10000 µg/l 20 – 10000 µg/l 20 – 10000 µg/l 20 – 10000 µg/l
26	Raw Wastewater, Incoming Water, Drinking water, STP water	<b>Organotin compounds</b> Monomethyltin Dimethyltin Trimethyltin Monobutyltin Dibutyltin Tributyltin Monophenyltin Diphenyltin Triphenyltin Monooctyltin Diocetyl tin Triocetyl tin	LAB_P_SOP_391 year 2018 Revision no.:00 (Based on ISO 17353-2004)	0.01 - 10000 µg/l 0.01 - 10000 µg/l 0.01 - 10000 µg/l 0.01 - 10000 µg/l 0.01 - 10000 µg/l 0.01 - 10000 µg/l 0.01 - 10000 µg/l 0.01 - 10000 µg/l 0.01 - 10000 µg/l 0.01 - 10000 µg/l 0.01 - 10000 µg/l 0.01 - 10000 µg/l
27	Raw Wastewater, Incoming Water, Drinking water, STP water	<b>Polyaromatic hydrocarbons</b> Benzo[a]pyrene (BaP) Anthracene Pyrene Benzo[ghi]perylene Benzo[e]pyrene Indeno[1,2,3-cd]pyrene Benzo[j]fluoranthene Benzo[b]fluoranthene Fluoranthene Benzo[k]fluoranthene Acenaphthylene Chrysene Dibenz[a,h]anthracene	LAB_P_SOP_395 year 2018 Revision no.:00 (Based on DIN 38407-39-2011, EPA 8270 D)	0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l 0.5 – 10000 µg/l



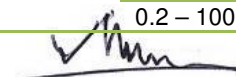
Quality Manager

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(For Testing Laboratory)

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<b>Amendment no:</b>	<b>01</b>		

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		Benzo[a]anthracene		0.5 – 10000 µg/l
		Acenaphthene		0.5 – 10000 µg/l
		Phenanthrene		0.5 – 10000 µg/l
		Fluorene		0.5 – 10000 µg/l
		Naphthalene		0.5 – 10000 µg/l
28		<b>Phthalate esters</b>		
		Di-(2-ethyl-hexyl)-phthalate(DEHP)		5 – 10000 µg/l
		Bis-(2-methoxy-ethyl)-phthalate(DMEP)		5 – 10000 µg/l
		Di-n-octyl-phthalate(DNOP)		5 – 10000 µg/l
		Di-iso-decyl-phthalate(DIDP)		5 – 10000 µg/l
		Di-iso-nonyl-phthalate(DINP)		5 – 10000 µg/l
		Di-n-hexyl phthalate (DnHP)		5 – 10000 µg/l
	Raw Wastewater, Incoming Water, Drinking water, STP water	Di-butyl-phthalate(DBP)	LAB_P_SOP_393 year 2018	5 – 10000 µg/l
		Benzyl-butyl-phthalate(BBP)	Revision no.:00 (Based on ISO 18856-2004, USEPA 8270 D)	5 – 10000 µg/l
		Di-nonyl-phthalate(DNP)		5 – 10000 µg/l
		Di-ethyl-phthalate(DEP)		5 – 10000 µg/l
		Di-n-propyl phthalate (DPRP)		5 – 10000 µg/l
		Di-iso-butyl-phthalate(DIBP)		5 – 10000 µg/l
		Di-cyclohexyl phthalate (DCHP)		5 – 10000 µg/l
		Di-iso-octyl phthalate (DIOP)		5 – 10000 µg/l
		1,2-Benzene-di-carboxylic acid, di-C7,11-branched and linear alkyl esters(DHNUP)		5 – 10000 µg/l
		Di-iso-heptyl-phthalate(DIHP)		5 – 10000 µg/l
29		<b>Volatile Organic compounds</b>		
	Raw Wastewater, Incoming Water, Drinking water, STP water	Benzene	LAB_P_SOP_399 year 2018	1.0 – 10000 µg/l
		Xylene(Ortho-, Meta- & Para-)	Revision no.:00	1.0 – 10000 µg/l
		o-cresol	LAB_P_SOP_400 year 2018	1.0 – 10000 µg/l
		p-cresol	Revision no.:00 (Based on EPA 8260 B; ISO -11423 -1)	1.0 – 10000 µg/l
		m-cresol		1.0 – 10000 µg/l
30		<b>Metals</b>		
	Sewage Sludge	Arsenic	LAB_P_SOP_384, year 2017	0.2 – 1000 mg/kg
		Cadmium	Revision no.:00 (Based on USEPA 3051 A: 2007, USEPA 3050 A: 1992, USEPA 3050 B: 1996, APHA 23 <sup>rd</sup> Ed-2017)	0.2 – 1000 mg/kg
		Lead		0.2 – 1000 mg/kg
		Mercury		0.005 – 1000 mg/kg
		Chromium VI		1.0 – 1000 mg/kg
31		<b>Alkyl Phenols and its Ethoxylates</b>		
	Sewage Sludge	Nonyl Phenol Ethoxylates(NPEO)	LAB_P_SOP_379, year 2017	
		Octyl Phenol Ethoxylates(OPEO)	Revision no.:00 (Based on ISO 18857 -2-2009, ASTM D7065:2011, ISO 18254-1:2016)	0.2 – 1000 mg/kg
		Nonyl Phenol(NP)		0.2 – 1000 mg/kg



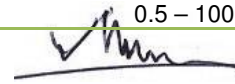
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## SCOPE OF ACCREDITATION

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		Octyl Phenol(OP)		0.2 – 1000 mg/kg
32	Sewage Sludge	<b>Carcinogenic Dyes &amp; Allergenic Dyes</b>		
		Disperse Yellow 1		0.5 – 1000 mg/kg
		Disperse Blue 102		0.5 – 1000 mg/kg
		Disperse Blue 106		0.5 – 1000 mg/kg
		Disperse Yellow 39		0.5 – 1000 mg/kg
		Disperse Orange 37/59/76		0.5 – 1000 mg/kg
		Disperse Brown 1		0.5 – 1000 mg/kg
		Disperse Orange 1		0.5 – 1000 mg/kg
		Disperse Yellow 3		0.5 – 1000 mg/kg
		Disperse Red 11		0.5 – 1000 mg/kg
		Disperse Red 1		0.5 – 1000 mg/kg
		Disperse Red 17		0.5 – 1000 mg/kg
		Disperse Blue 26		0.5 – 1000 mg/kg
		Disperse Blue 35		0.5 – 1000 mg/kg
		Disperse Blue 124	LAB_P_SOP_380, year 2017	0.5 – 1000 mg/kg
		Disperse Yellow 9	Revision no.:00 (Based on	0.5 – 1000 mg/kg
		Disperse Orange 3	USEPA 8321B:1998, USEPA	0.5 – 1000 mg/kg
		C.I. Direct Black 38	8270:1998)	0.5 – 1000 mg/kg
		C.I. Direct Blue 6		0.5 – 1000 mg/kg
		C.I. Acid Red 26		0.5 – 1000 mg/kg
	C.I. Basic Red 9		0.5 – 1000 mg/kg	
	C.I. Direct Red 28		0.5 – 1000 mg/kg	
	C.I. Basic Violet 14		0.5 – 1000 mg/kg	
	C.I. Disperse Blue 3		0.5 – 1000 mg/kg	
	C.I. Disperse Blue 1		0.5 – 1000 mg/kg	
	C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)		0.5 – 1000 mg/kg	
	C.I. Basic Green 4 (malachite green chloride)		0.5 – 1000 mg/kg	
	C.I. Basic Green 4 (malachite green oxalate)		0.5 – 1000 mg/kg	
	C.I. Basic Green 4 (malachite green)		0.5 – 1000 mg/kg	
	Disperse Orange 11		0.5 – 1000 mg/kg	
33	Sewage Sludge	<b>Flame Retardants</b>		
		Tris(2-chloroethyl)phosphate	LAB_P_SOP_380&LAB_P_SO	0.5 – 1000 mg/kg
		Tris(2,3-dibromopropyl)-phosphate	P_381, year 2018 Revision	0.5 – 1000 mg/kg
		Bis(2,3-dibromopropyl)phosphate	no.:00 (Based on US EPA 8270	
		Tris(1-aziridiny)phosphine oxide)	D:1998,ISO 22032-2006	0.5 – 1000 mg/kg
		Tetrabromobisphenol A	USEPA 527, USEPA 8321	0.5 – 1000 mg/kg
	Hexabromocyclododecane	B:1998)	0.5 – 1000 mg/kg	

  
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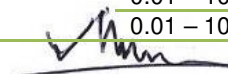
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		2,2-bis(bromomethyl)-1,3-propanediol		0.5 – 1000 mg/kg
		Tris(1,3-dichloro-isopropyl) phosphate		0.5 – 1000 mg/kg
		Decabromodiphenyl ether (DecaBDE)		0.02 -1000 mg/kg
		Pentabromodiphenyl ether (PentaBDE)		0.02 -1000 mg/kg
		Octa-bromo-diphenyl-ether(OctaBDE)		0.02 -1000 mg/kg
		Polybromobiphenyls (PBB)		0.02 -1000 mg/kg
		Short-chain chlorinated Paraffins (SCCP) (C10-C13)		0.02 -1000 mg/kg
34	Sewage Sludge	<b>Perfluorinated and Polyfluorinated Chemicals (PFCs)</b>		
		PFOS	LAB_P_SOP_382 year 2018	0.01 – 1000 mg/kg
		PFOA	Revision no.:00 (Based on DIN 38407-42-2003)	0.01 – 1000 mg/kg
		PFBS		0.01 – 1000 mg/kg
		PFHxA		0.01 – 1000 mg/kg
		8:2 FTOH		0.01 – 1000 mg/kg
	6:2 FTOH		0.01 – 1000 mg/kg	
35	Sewage Sludge	<b>Banned Aryl Amines</b>		
		O-Toluidine		0.01 – 1000 mg/kg
		3,3 Dimethyl benzidine		0.01 – 1000 mg/kg
		2 Methoxy 5 methyl aniline (p-Cresidine)		0.01 – 1000 mg/kg
		3,3' Dichloro benzidine		0.01 – 1000 mg/kg
		4 Chloro aniline		0.01 – 1000 mg/kg
		2,4,5 Trimethyl aniline		0.01 – 1000 mg/kg
		4,4 Diamino 3,3, dimethyl diphenyl Methane		0.01 – 1000 mg/kg
		4 Amino azo benzene	LAB_P_SOP_385 year 2017	0.01 – 1000 mg/kg
		4 Amino phenylthio ether (4,4'-THIODIANILINE)	Revision no.:00 (Based on En14362-1 & 3 :2017)	0.01 – 1000 mg/kg
		4 Amino phenyl ether (.p,p'-Oxydianiline)		0.01 – 1000 mg/kg
		3,3 Dimethoxy benzidine		0.01 – 1000 mg/kg
		4,4' Benzidine		0.01 – 1000 mg/kg
		Bis 4 (amino phenyl) methane		0.01 – 1000 mg/kg
		2 Anisidine		0.01 – 1000 mg/kg
	o-amino azo toluene		0.01 – 1000 mg/kg	
	4 Amino bi phenyl		0.01 – 1000 mg/kg	
	4 chloro 2 methyl aniline		0.01 – 1000 mg/kg	
	2,4 Diamino toluene		0.01 – 1000 mg/kg	



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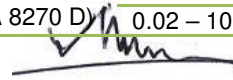
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		4,4 Methylene bis (2 chloroaniline)		0.01 – 1000 mg/kg
		2 Amino naphthalene		0.01 – 1000 mg/kg
		2 Amino 4 nitro toluene		0.01 – 1000 mg/kg
		2,4-Xylidine		0.01 – 1000 mg/kg
		2,6-Xylidine		0.01 – 1000 mg/kg
		2,4-Diaminoanisoole		0.01 – 1000 mg/kg
		Aniline		0.01 – 1000 mg/kg
		p-phenylene diamine		0.01 – 1000 mg/kg
36		<b>Chlorobenzenes and Chlorotoluenes</b>		
		Monochlorobenzene		0.01 – 1000 mg/kg
		1,2-Dichlorobenzene		0.01 – 1000 mg/kg
		1,3-Dichlorobenzene		0.01 – 1000 mg/kg
		1,4-Dichlorobenzene		0.01 – 1000 mg/kg
		1,2,3-Trichlorobenzene		0.01 – 1000 mg/kg
		1,2,4-Trichlorobenzene		0.01 – 1000 mg/kg
		1,3,5-Trichlorobenzene		0.01 – 1000 mg/kg
		1,2,3,4-Tetrachlorobenzene		0.01 – 1000 mg/kg
		1,2,3,5-Tetrachlorobenzene		0.01 – 1000 mg/kg
		1,2,4,5-Tetrachlorobenzene		0.01 – 1000 mg/kg
		Pentachlorobenzene		0.01 – 1000 mg/kg
		Hexachlorobenzene		0.01 – 1000 mg/kg
		2-Chlorotoluene	LAB_P_SOP_388 year 2018	0.01 – 1000 mg/kg
	Sewage Sludge	3-Chlorotoluene	Revision no.:00 (Based on EPA 8260B, EPA 8270D, DIN 54322:2010)	0.01 – 1000 mg/kg
		4-Chlorotoluene		0.01 – 1000 mg/kg
		2,3-Dichlorotoluene		0.01 – 1000 mg/kg
		2,4-Dichlorotoluene		0.01 – 1000 mg/kg
		2,5-Dichlorotoluene		0.01 – 1000 mg/kg
		2,6-Dichlorotoluene		0.01 – 1000 mg/kg
		3,4-Dichlorotoluene		0.01 – 1000 mg/kg
		3,5-Dichlorotoluene		0.01 – 1000 mg/kg
		2,3,4-Trichlorotoluene		0.01 – 1000 mg/kg
		2,3,6-Trichlorotoluene		0.01 – 1000 mg/kg
		2,4,5-Trichlorotoluene		0.01 – 1000 mg/kg
		2,4,6-Trichlorotoluene		0.01 – 1000 mg/kg
		3,4,5-Trichlorotoluene		0.01 – 1000 mg/kg
		2,3,4,5-Tetrachlorotoluene		0.01 – 1000 mg/kg
		2,3,5,6-Tetrachlorotoluene		0.01 – 1000 mg/kg
		2,3,4,6-Tetrachlorotoluene		0.01 – 1000 mg/kg
		Pentachlorotoluene		0.01 – 1000 mg/kg
37		<b>Chlorophenols</b>		
	Sewage Sludge	2-chlorophenol	LAB_P_SOP_389 year 2018	0.02 – 1000 mg/kg
		3-chlorophenol	Revision no.:00 (Based on ISO 14154 – 2005, USEPA 8270 D)	0.02 – 1000 mg/kg
		4-chlorophenol		0.02 – 1000 mg/kg

  
 Quality Manager



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		2,3-dichlorophenol		0.02 – 1000 mg/kg
		2,4-dichlorophenol		0.02 – 1000 mg/kg
		2,5-dichlorophenol		0.02 – 1000 mg/kg
		2,6-dichlorophenol		0.02 – 1000 mg/kg
		3,4-dichlorophenol		0.02 – 1000 mg/kg
		3,5-dichlorophenol		0.02 – 1000 mg/kg
		2,3,4-trichlorophenol		0.02 – 1000 mg/kg
		2,3,5-trichlorophenol		0.02 – 1000 mg/kg
		2,3,6-trichlorophenol		0.02 – 1000 mg/kg
		2,4,5-trichlorophenol		0.02 – 1000 mg/kg
		2,4,6-trichlorophenol		0.02 – 1000 mg/kg
		3,4,5-trichlorophenol		0.02 – 1000 mg/kg
		2,3,4,5-tetrachlorophenol		0.02 – 1000 mg/kg
		2,3,4,6-tetrachlorophenol		0.02 – 1000 mg/kg
		2,3,5,6-tetrachlorophenol		0.02 – 1000 mg/kg
		Pentachlorophenol		0.02 – 1000 mg/kg
38	Sewage Sludge	<b>Halogenated solvents</b>	LAB_P_SOP_401 year 2018	
		1,2-dichloroethane	Revision no.:00 (Based on EPA	0.1 – 1000 mg/kg
		Methylene chloride	8260 B, EPA 8270D, ISO	0.1 – 1000 mg/kg
		Trichloroethane	11423-1)	0.1 – 1000 mg/kg
		Tetrachloroethylene		0.1 – 1000 mg/kg
39	Sewage Sludge	<b>Glycols</b>	LAB_P_SOP_401 year 2018	0.1 – 1000 mg/kg
		Bis(2-methoxyethyl)-ether	Revision no.:00 (Based on EPA	0.1 – 1000 mg/kg
		2-ethoxyethanol	8260 B, EPA 8270D, ISO	0.1 – 1000 mg/kg
		2-ethoxyethyl acetate	11423-1)	0.1 – 1000 mg/kg
		Ethylene glycol dimethyl ether		0.1 – 1000 mg/kg
		2-methoxyethanol		0.1 – 1000 mg/kg
		2-methoxyethylacetate		0.1 – 1000 mg/kg
	2-methoxypropylacetate		0.1 – 1000 mg/kg	
	Triethylene glycol dimethyl ether		0.1 – 1000 mg/kg	
40	Sewage Sludge	<b>Organotin compounds</b>		
		Monomethyltin		0.01 – 1000 mg/kg
		Dimethyltin		0.01 – 1000 mg/kg
		Trimethyltin		0.01 – 1000 mg/kg
		Monobutyltin		0.01 – 1000 mg/kg
		Dibutyltin	LAB_P_SOP_392 year 2018	0.01 – 1000 mg/kg
		Tributyltin	Revision no.:00 (Based on ISO	0.01 – 1000 mg/kg
		Monophenyltin	17353-2004)	0.01 – 1000 mg/kg
		Diphenyltin		0.01 – 1000 mg/kg
		Triphenyltin		0.01 – 1000 mg/kg
		Monooctyltin		0.01 – 1000 mg/kg
		Diocetyl tin		0.01 – 1000 mg/kg
		Triocetyl tin		0.01 – 1000 mg/kg
41	Sewage Sludge	<b>Polyaromatic hydrocarbons</b>	LAB_P_SOP_396 year 2018	

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(For Testing Laboratory)

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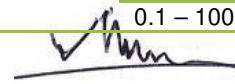
**Accreditation Standard:** ISO/IEC 17025:2017 **Accreditation Date:** 16 April 2015

**Certificate Number:** 01.022.15 **Issued on:** 01 Dec 2019

**Last Amended on:** 01 Dec 2019 **Valid until:** 03 April 2021

**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
		Benzo[a]pyrene (BaP)	Revision no.:00 (Based on DIN 38407-39-2011, EPA 8270 D)	0.1 – 1000 mg/kg
		Anthracene		0.1 – 1000 mg/kg
		Pyrene		0.1 – 1000 mg/kg
		Benzo[ghi]perylene		0.1 – 1000 mg/kg
		Benzo[e]pyrene		0.1 – 1000 mg/kg
		Indeno[1,2,3-cd]pyrene		0.1 – 1000 mg/kg
		Benzo[j]fluoranthene		0.1 – 1000 mg/kg
		Benzo[b]fluoranthene		0.1 – 1000 mg/kg
		Fluoranthene		0.1 – 1000 mg/kg
		Benzo[k]fluoranthene		0.1 – 1000 mg/kg
		Acenaphthylene		0.1 – 1000 mg/kg
		Chrysene		0.1 – 1000 mg/kg
		Dibenz[a,h]anthracene		0.1 – 1000 mg/kg
		Benzo[a]anthracene		0.1 – 1000 mg/kg
		Acenaphthene		0.1 – 1000 mg/kg
		Phenanthrene		0.1 – 1000 mg/kg
		Fluorene	0.1 – 1000 mg/kg	
		Naphthalene	0.1 – 1000 mg/kg	
42		<b>Phthalate esters</b>		
		Di-(2-ethyl-hexyl)-phthalate(DEHP)		0.2 – 1000 mg/kg
		Bis-(2-methoxy-ethyl)-phthalate(DMEP)		0.2 – 1000 mg/kg
		Di-n-octyl-phthalate(DNOP)		0.2 – 1000 mg/kg
		Di-iso-decyl-phthalate(DIDP)		0.2 – 1000 mg/kg
		Di-iso-nonyl-phthalate(DINP)		0.2 – 1000 mg/kg
		Di-n-hexyl phthalate (DnHP)		0.2 – 1000 mg/kg
		Di-butyl-phthalate(DBP)	LAB_P_SOP_394 year 2017	0.2 – 1000 mg/kg
	Sewage Sludge	Benzyl-butyl-phthalate(BBP)	Revision no.:00 (Based on ISO 18856-2004, USEPA 8270 D)	0.2 – 1000 mg/kg
		Di-nonyl-phthalate(DNP)		0.2 – 1000 mg/kg
		Di-ethyl-phthalate(DEP)		0.2 – 1000 mg/kg
		Di-n-propyl phthalate (DPRP)		0.2 – 1000 mg/kg
		Di-iso-butyl-phthalate(DIBP)		0.2 – 1000 mg/kg
		Di-cyclohexyl phthalate (DCHP)		0.2 – 1000 mg/kg
		Di-iso-octyl phthalate (DIOP)		0.2 – 1000 mg/kg
		1,2-Benzene-di-carboxylic acid, di-C7,11-branched and linear alkyl esters(DHNUP)		0.2 – 1000 mg/kg
		Di-iso-heptyl-phthalate(DIHP)		0.2 – 1000 mg/kg
43		<b>Volatile Organic compounds</b>		
		Benzene	LAB_P_SOP_400 year 2018	0.1 – 1000 mg/kg
	Sewage Sludge	Xylene	Revision no.:00 Based on EPA 8260 B;	0.1 – 1000 mg/kg
		o-cresol		0.1 – 1000 mg/kg
		p-cresol		0.1 – 1000 mg/kg



Quality Manager

## SCOPE OF ACCREDITATION

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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
		m-cresol		0.1 – 1000 mg/kg

\*\*\*END\*\*\*



Quality Manager