

Quality And Accreditation Institute

Centre for International Accreditation



QAI CIA is an ILAC MRA Signatory

Certificate of Accreditation

Geo Chem Consumer Products Services (CPS) Ltd.

*SB Plaza (6th & 7th floor), Plot No. 37, Sector- 3, Uttara Commercial Area,
Dhaka – 1230, Bangladesh*

*has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017*

*“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Testing*

*This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.*



QAI/CIA/TL/2024/0065

(Date of First Accreditation: 11 July 2024 – 10 July 2026)

Valid from: 11 July 2026

Valid until: 10 July 2028

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA

User is advised to verify the current certificate and scope of accreditation by visiting our website: www.qai.org.in



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
1.	Garments, textile & textile products, prints	Certain aromatic amines derived from Azo Colourants (Total 24 Aryl amines) O-Toluidine (95-53-4) 2,4 Xylidine (95-68-1) O-Anisidine (90-04-0) P-Chloroaniline (106-47-8) P-Cresidine (120-71-8) 2,4,5 Trimethylaniline (137-17-7) 4 Chlor-O-Toluidine (95-69-2) 2,4 Tolyenediamine (95-80-7) 2,4 Diaminoanisole (615-05-4) 2 Naphthalamine (91-59-8) 2 Aminonitro-4 Toluene (99-55-8) 4 Aminobiphenyl (92-67-1) P-Aminoazobenzene (60-09-03) 4,4 Oxydianiline (101-80-4) 4,4 Diamino-diphenyl methane (101-77-9) Benzidine (92-87-5) O-Amino azo toluene (97-56-3)	ISO 14362-1: 2017 ISO 14362-3: 2017 GB/T 17592: 2011

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		4,4 Diamino-3,3 Dimethyl diphenyl amine (838-88-0)	
		3,3 Dimethyl Benzidine (119-93-7)	
		4,4 Thiodianiline (139-65-1)	
		3,3 Dichlorobenzidine (91-94-1)	
		4,4 Methylene-Bis-2 Chloroaniline (101-14-4)	
		3,3 Dimethoxy Benzidine (119-90-4)	
		2,6 Xylidine (87-62-7)	
2.	Garments, textile & textile products, coating, plastic & rubber	Determination of Phthalates	
		1 Di-isononyl phthalate (DINP); (28553-12-0)	
		Di-(2-ethylhexyl) phthalate (DEHP); (117-81-7)	EN ISO 14389: 2014
		Di-n-octyl phthalate (DNOP); (117-84-0)	CPSC-CH-C1001-09.4: 2018
		Di-iso-decyl phthalate (DIDP); (26761-40-0)	EN 14372:2004
		Butyl benzyl phthalate (BBP); (85-68-7)	ISO 16181-1:2021
			GB/T 24168:2009

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Di-butyl phthalate (DBP); (84-72-2)	
		Di-n-hexyl phthalates (DnHP); (84-75-3)	
		Di-iso-butyl phthalate (DIBP); (84-69-5)	
		Bis (2-methoxyethyl) phthalate (DMEP); (117-82-8)	
		Di-n-petyl phthalate (DnPP); (131-18-0)	
		Di-iso petyl phthalate (DIPP); (605-50-5)	
		Di-iso Butyl phthalate (DIBP); (84-69-5)	
		Iso-pentyl petyl phthalate (iPniPP/PiPP) (776297-69-9)	
		Dimethyl Phthalate (DMP) (131-11-3)	
		Diethyl Phthalate (DEP) (84-66-2)	
		Diisoheptyl Phthalate, di-C6-8 branched alkyl esters, C7-rich (DIHpP) (71888-89-6)	

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	Hazardous & Restricted Chemicals		
		Diundecyl Phthalate (DUDP) (3648-20-2)	
		Diphenyl Phthalate (DPhP) (84-62-8)	
		Dicyclohexyl Phthalate (DCHP) (84-61-7)	
		Diisohexyl Phthalate (DIHP) (7299-89-0)	
3.	Garments, textile & textile products, toy products, plastic, glass & ceramic	Total Lead in non-metal	CPSC-CH-E-1002-08.3: 2012
4.	Garments, textile & textile products, plastic, metal & surface coating	Lead in paint / lead in surface coating (paints & other similar surface coating)	CPSC-CH-E-1003-09.1: 2011
5.	Garments, textile & textile products, toy products & metal items	Total lead content in metal	CPSC-CH-E-1001-08.3: 2012
6.	Garments, textile & textile products, plastic & rubber	Determination of total content of lead and cadmium	EN 1122: 2001 CPSC-CH-E-1002-08.3: 2012

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
7.	Garments, textile & textile products, plastic, toys products, metal & coated items	Migration of certain element (heavy metal):	EN 71-3: 2019
		Lead	
		Cadmium	
		Chromium III	
		Mercury	
		Selenium	
		Arsenic	
		Antimony	
		Barium	
		Boron	
		Aluminium	
		Chromium VI	
		Manganese	
		Cobalt	
		Nickel	
		Copper	
		Zinc	
		Strontium	
		Tin	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
8.	Garments, textile & textile products, print & plastic	Determination of selected Organotin compounds:	ISO 17353: 2004 ISO/TS 16179: 2012 EN 71-3: 2019
		Dibutyltin (DBT)	
		Monobutyltin (MBT)	
		Tributyletin (TBT)	
		Tetrabutyle (TeBT)	
		Monooctyltin (MOT)	
		Diphenyltin (DPHT)	
		Diocetyltn (DOT)	
		Triphenyltin (TPhT)	
		Trimethyltin (TMT)	
		Dimethyltin (DMT)	
		Monophenyltin (MPhT)	
		Tri-Cyclohexyltin (TCyT)	
		Monomethyltin (MMT)	
		Di-heptyltin (DHT)	
		Tri-n-octyltin (TOT)	
		Tetraethyltin (TeET)	
		Tri-n-propyltin (TPrT)	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
9.	Garments, textile & textile products	Formaldehyde	AATCC 112:2014 ISO 14184-1:2011 ISO 14184-2:2011 GB/T 2912.1:2009 JIS L 1041:2011 Japan Law 112:2016
10.	Garments, textile & textile products	Formaldehyde spot test	AATCC 94:2012
11.	Metal items	Nickel spot test	PD CR 12471:2002
12.	Metal items (coated & non-coated)	Nickel release test	EN 1811: 2011 + A1: 2015 EN 12472: 2005 + A1: 2009
13.	Garments, textile & textile products	Determination of chlorinated organic carriers	DIN 54232: 2010 BS EN ISO 17137:2018
		2-Chlorotoluene (95-49-8)	
		3-Chlorotoluene (108-41-8)	
		4-Chlorotoluene (106-43-4)	
		1,3-Dichlorobenzene (541-73-1)	
		α-chlorotoluene (100-44-7)	
		1,4-Dichlorobenzene (106-46-7)	
		1,2-Dichlorobenzene (95-50-1)	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		2,4-Dichlorotoluene (95-73-8)	DIN 54232: 2010 BS EN ISO 17137:2018
		2,5-Dichlorotoluene (19398-61-9)	
		2,6-Dichlorotoluene (118-69-4)	
		1,3,5-Trichlorobenzene (108-70-3)	
		2,3-Dichlorotoluene (32768-54-0)	
		3,4-Dichlorotoluene (95-75-0)	
		1,2,4-Trichlorobenzene (120-82-1)	
		1,2,3-Trichlorobenzene (87-61-6)	
		α, α, α-Trichlorotoluene (98-07-7)	
		2,4,5-Trichlorotoluene (6639-30-1)	
		1,2,3,5-Tetrachlorobenzene (634-90-2)	
		1,2,4,5-Tetrachlorobenzene (95-94-3)	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		1,2,3,4-Tetrachlorobenzene (634-66-2)	DIN 54232: 2010 BS EN ISO 17137:2018
		$\alpha,\alpha,\alpha,4$ -tetrachlorotoluene (5216-25-1)	
		2,3,4,6-Tetrachlorotoluene (875-40-1)	
		2,3,5,6-Tetrachlorotoluene (1006-31-1)	
		2,3,4,5-Tetrachlorotoluene (106-32-2)	
		Penta chlorobenzene (608-93-5)	
		Penta chlorotoluene (877-11-2)	
		Hexachlorobenzene (118-74-1)	
		2,3,6-Trichlorotoluene (2077-46-5)	
		Chlorobenzene (108-90-7)	
14.	Plastic, print & coating in garments & textile products	Polyvinyl chloride (PVC)	GC-SOP-ANA-030
15.	Garments, textile & textile products, leather	Extractable heavy metal	ISO 105-E04 : 2013 EN ISO 17072-1 : 2011
		Antimony	
		Chromium	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Cobalt	
		Copper	
		Nickel	
		Arsenic	
		Cadmium	
		Lead	
		Mercury	
		Chromium (VI)	
16.	Garments, textile & textile products, leather, plastic & paper items	Determination of APEO / AP content	ISO 18218-1: 2015
		NP	ISO 18254-1:2016
		OP	GB/T 23972: 2009
		NPEO	
		OPEO	
17.	Garments, textile & textile products	pH Value	ISO 3071: 2020
			AATCC 81: 2016
			SASO ISO 3071: 2005
			GB/T 7573:2009
			AS 2001.3.1:1998 (R 2016)
18.	Leather	pH Value	ISO 4045: 2008
			SASO ISO 4045: 2010

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	Hazardous & Restricted Chemicals		
19.	Leather & leather products	Certain aromatic amines derived from Azo Colorants (Total 24 Aryl amines)	
		O-Toluidine (95-53-4)	
		2,4 Xylidine (95-68-1)	
		O-Anisidine (90-04-0)	
		P-Chloroaniline (106-47-8)	
		P-Cresidine (120-71-8)	
		2,4,5 Trimethylaniline (137-17-7)	ISO 17234-1: 2015
		4 Chlor-O-Toluidine (95-69-2)	ISO 17234-2: 2011
		2,4 Tolyenediamine (95-80-7)	ISO 17234-1: 2015
		2,4 Diaminoanisole (615-05-4)	ISO 17234-2: 2011
		2 Naphthalamine (91-59-8)	
		2 Aminonitro-4 Toluene (99-55-8)	
		4 Aminobiphenyl (92-67-1)	
		P-Aminoazobenzene (60-09-03)	
		4,4 Oxydianiline (101-80-4)	
		4,4 Diamino-diphenyl methane (101-77-9)	
		Benzidine (92-87-5)	
		O-Amino azo toluene (97-56-3)	

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	Hazardous & Restricted Chemicals		
		4,4 Diamino-3,3 Dimethyl diphenyl amine (838-88-0)	
		3,3 Dimethyl Benzidine (119-93-7)	
		4,4 Thiodianiline (139-65-1)	
		3,3 Dichlorobenzidine (91-94-1)	
		4,4 Methylene-Bis-2	
		3,3 Dimethoxy benzidine (119-90-4)	
		2,6 Xylidine (87-62-7)	
20.	Garments, textile & textile products, leather & leather products	Chromium- VI content	ISO 17075-1:2017 ISO 17075-2:2017 64 LFBG BVL B82.02.11
21.	Leather & leather products	Determination of formaldehyde	ISO 17226-1:2018 ISO 17226-2:2018
22.	Garments, textile & textile products, coated fabric, plastics & metal	Textiles- Determination of metal content - Determination of metals using microwave digestion	BS EN 16711-1:2015
		Arsenic (As)	
		Cadmium (Cd)	
		Cobalt (Co)	

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	Hazardous & Restricted Chemicals		
		Chromium (Cr)	
		Copper (Cu)	
		Mercury (Hg)	
		Nickel (Ni)	
		Lead (Pb)	
		Antimony (Sb)	
23.	Garments, Textile & Textile products, coated fabric, plastics & metal	Textiles- Determination of metal content, determination of metals extracted by acidic artificial perspiration solution Arsenic (As) Cadmium (Cd) Cobalt (Co) Chromium (Cr) Copper (Cu) Mercury (Hg) Nickel (Ni) Lead (Pb) Antimony (Sb)	BS EN 16711-2:2015
24.	Garments, textile & textile products	Determination of allergenic and carcinogenic dyestuff Solvent yellow 1 (60-09-3)	DIN 54231: 2005 BS EN ISO 16373-2: 2014 BS EN ISO 16373-3: 2014

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	Hazardous & Restricted Chemicals		
		Solvent yellow 3 (97-56-3)	
		Solvent yellow 2 (60-11-7)	
		Disperse orange 11 (82-28-0)	
		Disperse orange 3 (730-40-5)	
		Sudan 1 (842-07-9)	
		Disperse yellow 39 (12236-29-2)	
		Disperse blue (12475-45-8)	
		Disperse red 11 (2872-48-2)	
		Disperse yellow 3 (2832-40-8)	
		Direct blue 15 (2429-74-5)	DIN 54231: 2005
		Basic red 9 (569-61-9)	BS EN ISO 16373-2: 2014
		Disperse yellow 54 (7576-65-0)	BS EN ISO 16373-3: 2014
		Disperse blue 3 (2475-46-9)	
		Disperse polyester dark blue (35b) (56524-76-6)	
		Disperse blue 26 (3860-63-7)	
		Disperse blue 35(1)(12222-75-2)	
		Basic violet 14 (632-99-5)	
		Disperse red 1 (2872-52-8)	
		Disperse orange 1 (2581-69-3)	
		Basic red 46 (12221-69-1)	

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	Hazardous & Restricted Chemicals		
		Malachite green chloride (569-64-2)	DIN 54231: 2005 BS EN ISO 16373-2: 2014 BS EN ISO 16373-3: 2014
		Malachite green oxalate (2437-29-8)	
		Disperse blue 106 (12223-01-7)	
		Disperse red 17 (3179-89-3)	
		Basic violet 1 (603-47-4)	
		Disperse blue 7 (3179-90-6)	
		Disperse blue 102 (12222-97-8)	
		Disperse yellow 49 (54824-37-2)	
		Disperse blue 124 (61951-51-7)	
		Disperse orange 37 (13301-61-6)	
		Disperse orange brown 1 (23355-64-8)	
		Basic blue 26 (2580-56-5)	
		Disperse orange 149 (85136-74-9)	
		Acid violet 49 (1694-09-3)	
		Acid red 26 (3761-53-3)	
		Disperse yellow 1 (119-15-3)	
		Navy blue (118685-33-9)	
		Basic violet 3 (548-62-9)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Direct brown 95 (16071-86-6)	
		Disperse yellow (6250-23-3)	
25.	Garments, textile & textile products	Determination of extractable chlorinated phenols & other phenol Pentachlorophenol (PCP) Tetra chlorophenol (TeCP) Trichlorophenol (TCP) Orthophenylphenol (OPP) 2-Chlorophenol (95-57-8) 3-Chlorophenol (108-43-0) 4-Chlorophenol (106-48-9) 2,6-Dichlorophenol (87-65-0) 4-Chloro-3-methyl phenol (59-50-7) 2,5-Dichlorophenol (583-78-8) 3,5-Dichlorophenol (591-35-5) 2,3-Dichlorophenol (576-24-9) 3,4-Dichlorophenol (95-77-2) 2,4,6-Trichlorophenol (88-06-02) 2,3,6-Trichlorophenol (933-75-5) 2,3,5-Trichlorophenol (933-78-8)	ISO 17070:2015 § 64 LFGB BVL B 82.02.8:2001 DIN EN ISO 17070:2015 UNI 11057: 2003

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		2,4,5-Trichlorophenol (95-95-4)	
		2,3,4-Trichlorophenol (15950-66-0)	
		3,4,5-Trichlorophenol (609-19-8)	
		2,3,4,6-Tetrachlorophenol (58-90-2)	
		2,3,4,5-Tetrachlorophenol (4901-51-3)	
		2,3,5,6-Tetrachlorophenol (935-95-5)	
		Pentachlorophenol (87-86-5)	
		Ortho-Phenyl phenol (OPP) (90-43-7)	
26.	Garments, textile & textile products	Transmittance or blocking of UV radiation through fabric	AATCC TM183:2020 EN 13758-1:2001+A1:2006 & EN 13758-2:2003+A1:2006 AS-NZS 4399:1996
27.	Garments, textile & textile products	Determination of polycyclic aromatic hydrocarbons (PAHs)	AfPS GS 2019: 01 PAK
		Naphthalene (NAP) (91-20-3)	ISO 18287:2006 ZEK 01.4-08

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Acenaphthylene (ANY) (208-96-8)	AfPS GS 2019: 01 PAK ISO 18287:2006 ZEK 01.4-08
		Acenaphthene (ANA) (83-32-9)	
		Fluorene (FLU) (86-73-7)	
		Phenanthrene (PHE) (85-01-8)	
		Anthracene (ANT) (120-12-7)	
		Fluranthene (FLT) (206-44-0)	
		Pyrene (PYR) (129-00-0)	
		Benzo(a)anthracene (BaA) (56-55-3)	
		Chrysene (CHR) (218-01-9)	
		Benzo(b)fluoranthene (BbF) (205-99-2)	
		Benzo(k)fluoranthene (BkF) (207-08-9)	
		Benzo(a)pyrene (BaP) (50-32-8)	
		Indeno(1,2,3-cd) pyrene (IPY) (193-39-5)	
		Dibenzo(a,h)anthracene (DBA) (53-70-3)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Benzo(g,h,i)perylene (BPE) (191-24-2)	AfPS GS 2019: 01 PAK ISO 18287:2006 ZEK 01.4-08
		Benzo(j)fluoranthene (BjF) (205-82-3)	
		Benzo(e)pyrene (BeP) (192-97-2)	
		Cyclopenta[c,d]pyrene (CPP) (27208-37-3)	
		Dibenzo(a,e)pyrene [DB(a,e)P] (192-65-4)	
		Dibenzo(a,h)pyrene [DB(a,h)P] (189-64-0)	
		Dibenzo(a,i)pyrene [DB(a,i)P] (189-55-9)	
		Dibenzo(a,l)pyrene [DB(a,l)P] (191-30-0)	
		(2381-21-7)	
		1-Methylpyrene (1-MP)	
		1-Methylnaphthalene (90-12-0)	
		2-Methylnaphthalene (91-57-6)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
1.	Garment & apparel-fabrics (woven & non-woven), grey fabric, finished fabric, terry fabrics & its products & yarns & chords	Dimensional changes after home laundering	AATCC 135: 2025, AATCC 150:2018
2.		Dimensional change after washing	ISO 3759: 2011/ 5077:2007/ 6330: 2021/ SASO ISO 3759: 2011/ 5077: 2007/ 6330: 2012 AS 2001.5.4:2005 (R2016) AS 2001.5.7:1986 (R2016)
3.		Dimensional stability to dry-cleaning	ISO 3175-1: 2017/ 3175-2: 2017 AATCC 158: 2016
4.		Smoothness appearance of fabrics after repeated home laundering	ISO 7768: 2009 AATCC 124: 2018
5.		Appearance of apparel and other textile end product after repeated home laundering	ISO 15487: 2018 AATCC 143: 2018
6.		Evaluation smoothness of seam in fabric after repeated home laundering	ISO 7770: 2009 AATCC 88 B: 2018
7.		Retention of creases in fabric after repeated home laundering	ISO 7769: 2009 AATCC 88C:2018

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
8.	Garment & apparel-fabrics (woven & non-woven), grey fabric, finished fabric, terry fabrics & its products & yarns & chords	Skewness change /spirality / torque	ISO 16322-1: 2005 ISO 16322-2: 2021 ISO 16322-3: 2021 AATCC 179: 2019
9.		Determination of dimensional change of fabric induced by free steam	ISO 3005: 1978 BS 4323: 1979 SASO ISO 3005: 1978
10.		Absorbency	AATCC 79: 2025 EN 14697: 2005
11.		Wicking procedure/ vertical wicking of textiles	AATCC /TS-017: 2017 AATCC 197:2022
12.		Fabric and garment odour	SNV 195651 :2015
13.		Color fastness to organic solvent	ISO 105 X05: 1994 SASO ISO 105 X05: 1994
14.		Color fastness to perspiration and light	AATCC 125: 2013 (2020 E2) ISO 105 B07:2009
15.		Color fastness to dye transfer in storage	AATCC 163: 2013 (2020 E2)
16.		Color fastness to phenolic yellowing	ISO 105 X18: 2007
17.		Color fastness to ozone	ISO 105 G03: 1993 AATCC 109:2016

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
18.	Garment & apparel-fabrics (woven & non-woven), grey fabric, finished fabric, terry fabrics & its products & yarns & chords	Fiber analysis (Qualitative & Quantitative)	AATCC 20: 2021
			AATCC 20A: 2021
			ISO 1833-1:2020 (Annex B)
			SASO ISO 1833-1:2006 (Annex B)
			ISO 1833-1:2020
			ISO 1833-2:2020
			SASO ISO 1833-2:2020
			ISO 1833-3: 2019
			SASO ISO 1833-3: 2006
			ISO 1833-4:2017
			SASO ISO 1833-4: 2006
			ISO 1833-6: 2018
			SASO ISO 1833-6:2006
			ISO 1833-7:2017
			SASO ISO 1833-7: 2006
			ISO 1833-11:2017
			SASO ISO 1833-11: 2006
			ISO 1833-12:2020
			SASO ISO 1833-12: 2006
			ISO 1833-18:2020
			SASO ISO 1833-18:2019
			ISO 1833-20:2018
			ISO 1833-22:2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
		Fiber analysis (Qualitative & Quantitative)	ISO 1833-24:2010 ASTM D629:2015 AS 2001.7:2005 (R2016)
19.		Color fastness to light	ISO 105 B02: 2014 AATCC 16.3: 2020 SASO ISO 105 B02: 2014 AS 2001.4.B02:2011 (R2016)
20.		Color fastness to artificial saliva	DIN 53160:2023 GB/T 18886:2019
21.		Color fastness to hot pressing	ISO 105 X11: 1994 AATCC 133: 2020
22.		Color fastness to washing	ISO 105 C10: 2006 ISO 105 C06: 2010 ISO 105 C08: 2010 AATCC 61: 2013 SASO ISO 105 C10: 2007 SASO ISO 105 C06: 2010 AS 2001.4.15:2006 (R2016)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
23.	Garment & apparel-fabrics (woven & non-woven), grey fabric, finished fabric, terry fabrics & its products & yarns & chords	Color fastness to dry cleaning	ISO 105 D01: 2010 AATCC 132: 2013 SASO ISO 105 D01: 2010 AS 2001.4.16:1981 (R2016)
24.		Color fastness to water	ISO 105 E01: 2013 AATCC 107: 2022 SASO ISO 105 E01: 2013 GB/T 5713:2013 AS 2001.4.E01:2001 (R2016)
25.		Color fastness to sea water	ISO 105 E02: 2013 AATCC 106: 2013 SASO ISO 105 E02: 2013 AS 2001.4.E02:2001 (R2016)
26.		Color fastness to chlorinated pool water	ISO 105 E03: 2010 AATCC 162: 2011 SASO ISO 105 E03: 2010 AS/NZS 2001.4.5:1998 (R2016)
27.		Color fastness to perspiration	AATCC 15: 2021, GB/T 3922:2013 ISO 105 E04: 2013 SASO GSO 1268: 2002 AS 2001.4.E04:2005 (R2016)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
28.	Garment & apparel-fabrics (woven & non-woven), grey fabric, finished fabric, terry fabrics & its products & yarns & chords	Color fastness to chlorine bleach	AATCC TS 001
29.		Color fastness to non - chlorine bleach	AATCC TS 001
30.		Color fastness to rubbing /crocking	ISO 105 X12: 2016
			AATCC 8: 2016
			SASO ISO 105 X12: 2001
			AATCC 116: 2022
			CAN CGSB 4.2 NO.22: 2004 (R2013)
			ISO 105 X16:2016
31.		Color fastness to water spotting	AS 2001.4.3:1995 (R2016)
			ISO 105 E07: 2010
			AATCC 104: 2025
32.		Oil repellency	SASO ISO 105 E07: 2010
33.		Soil release-oily stain release	AATCC 118:2020
34.		Water Repellency-Spray Test	AATCC 130:2018
			AATCC 22:2017
	ISO 4920: 2012		
35.	Aqueous Liquid Repellency: Water/ Alcohol Solution Resistance Test	GB/T 4745:2012	
		AATCC 193:2017	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
1.	Waste Water	AP/APEO	GC-BD-ENV-ZDHC-SOP-006 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. NP/OP: ISO 18857 -2 (Modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)) OPEO/NPEO (n>2): ISO 18254-1 OPEO/NPEO (n=1,2): ISO 18857-2 or ASTM D7065
		Nonylphenol (NP), mixed isomers (104-40-5) (11066-49-2) (25154-52-3) (84852-15-3)	
		Octyl phenol (OP), mixed isomers (140-66-9) (1806-26-4) (27193-28-8)	
		Octyl phenol ethoxylates (OPEO) (9002-93-1) (9036-19-5) (68987-90-6)	
		Nonylphenol ethoxylates (NPEO) (9016-45-9) (26027-38-3) (37205-87-1) (68412-54-4) (127087-87-0)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
2.	Sludge	AP/APEO	GC-BD-ENV-ZDHC-SOP-006 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. NP/OP: ISO 18857 - 2 (Modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)) OPEO/NPEO (n>2): ISO 18254-1 OPEO/NPEO (n=1,2): ISO 18857-2 or ASTM D7065
		Nonylphenol (NP), mixed isomers (104-40-5) (11066-49-2) (25154-52-3) (84852-15-3)	
		Octyl phenol (OP), mixed isomers (140-66-9) (1806-26-4) (27193-28-8)	
		Octyl phenol ethoxylates (OPEO) (9002-93-1) (9036-19-5) (68987-90-6)	
		Nonylphenol ethoxylates (NPEO) (9016-45-9) (26027-38-3) (37205-87-1) (68412-54-4) (127087-87-0)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
3.	Waste Water	Chlorobenzenes and Chlorotoluene (COC) Mono-chlorobenzene (108-90-7) 1,2-Dichlorobenzene (95-50-1) 1,3-Dichlorobenzene (541-73-1) 1,4-Dichlorobenzene (106-46-7) 1,2,3-Trichlorobenzene (87-61-6) 1,2,4-Trichlorobenzene (120-82-1) 1,3,5-Trichlorobenzene (108-70-3) 1,2,3,4-Tetrachlorobenzene (634-66-2) 1,2,3,5-Tetrachlorobenzene (634-90-2) 1,2,4,5-Tetrachlorobenzene (95-94-3) Pentachloro benzene (608-93-5) Hexachlorobenzene (118-74-1) 2-Chlorotoluene (95-49-8) 3-Chlorotoluene (108-41-8) 4-Chlorotoluene (106-43-4) 2,3-Dichlorotoluene (32768-54-0) 2,4-Dichlorotoluene (95-73-8)	GC-BD-ENV-ZDHC-SOP-002 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. USEPA 3650 8260D, 8270E. DIN 54232:2010 & BS EN 17137: 2018 (Dichloromethane Extraction followed by GC/MS)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
	Waste Water	2,5-Dichlorotoluene (19398-61-9)	GC-BD-ENV-ZDHC-SOP-002 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. USEPA 3650 8260D, 8270E. DIN 54232:2010 & BS EN 17137: 2018 (Dichloromethane Extraction followed by GC/MS)
		2,6-Dichlorotoluene (118-69-4)	
		3,4-Dichlorotoluene (95-75-0)	
		3,5-Dichlorotoluene (25186-47-4)	
		2,3,4-Trichlorotoluene (7359-72-0)	
		2,3,6-Trichlorotoluene (2077-46-5)	
		2,4,5-Trichlorotoluene (6639-30-1)	
		2,4,6-Trichlorotoluene (23749-65-7)	
		3,4,5-Trichlorotoluene (21472-86-6)	
		2,3,4,5-Tetrachlorotoluene (76057-12-0)	
		2,3,5,6-Tetrachlorotoluene (29733-70-8)	
		2,3,4,6-Tetrachlorotoluene (875-40-1)	
		Penta chlorotoluene (877-11-2)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
4.	Waste Water	2-chlorophenol (95-57-8)	GC-BD-ENV-ZDHC-SOP-005 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. USEPA 8270E. (Solvent extraction, derivatization with KOH, acetic anhydride followed by GC/MS) BS EN 12673:1999 ISO 14154:2005
		3-chlorophenol (108-43-0)	
		4-chlorophenol (106-48-9)	
		2,3-dichlorophenol (576-24-9)	
		2,4-dichlorophenol (120-83-2)	
		2,5-dichlorophenol (583-78-8)	
		2,6-dichlorophenol (87-65-0)	
		3,4-dichlorophenol (95-77-2)	
		3,5-dichlorophenol (591-35-5)	
		2,3,4-trichlorophenol (15950-66-0)	
		2,3,5-trichlorophenol (933-78-8)	
		2,3,6-trichlorophenol (933-75-5)	
		2,4,5-trichlorophenol (95-95-4)	
		2,4,6-trichlorophenol (88-06-2)	
		3,4,5-trichlorophenol (609-19-8)	
		2,3,4,5-tetrachlorophenol	
		2,3,4,6-tetrachlorophenol (58-90-2)	
		2,3,5,6-tetrachlorophenol (935-95-5)	
		2-chlorophenol (95-57-8)	
		Pentachlorophenol (87-86-5)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
5.	Waste Water	Dyes – Azo (Forming restricted amines)	GC-BD-ENV-ZDHC-SOP-001 (ZDHC Wastewater Guidelines, Version- 2.2, October, 2024) Based on ref. EN 14362-1, EN 14362-3 EPA 8270 Reduction step with sodium dithionite, solvent extraction, GC/MS or LC/MS
		4,4'-methylene-bis-(2-chloro-aniline) (101-14-4)	
		4,4'-methylenedianiline (101-77-9)	
		4,4'-oxydianiline (101-80-4)	
		4-chloroaniline (106-47-8)	
		3,3'-dimethoxybenzidine (119-90-4)	
		3,3'-dimethylbenzidine (119-93-7)	
		6-methoxy-m-toluidine (120-71-8)	
		2,4,5-trimethylaniline (137-17-7)	
		4,4'-thiodianiline (139-65-1)	
		4-aminoazobenzene (60-09-3)	
		4-methoxy-m-phenylenediamine (615-05-4)	
		4,4'-methylenedi-o-toluidine (838-88-0)	
		2,6-xylidine (87-62-7)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		o-anisidine (90-04-0)	GC-BD-ENV-ZDHC-SOP-001 (ZDHC Wastewater Guidelines, Version- 2.2, October, 2024) Based on ref. EN 14362-1, EN 14362-3 EPA 8270 Reduction step with sodium dithionite, solvent extraction, GC/MS or LC/MS
		2-naphthylamine (91-59-8)	
		3,3'-dichlorobenzidine (91-94-1)	
		4-aminodiphenyl (92-67-1)	
		Benzidine (92-87-5)	
		o-toluidine (95-53-4)	
		2,4-xylydine (95-68-1)	
		4-chloro-o-toluidine (95-69-2)	
		4-methyl-m-phenylenediamine (95-80-7)	
		o-amino azotoluene (97-56-3)	
		5-nitro-o-toluidine (99-55-8)	
		2-Naphthylammoniumacetate (553-00-4)	
		2,4,5-trimethylaniline (21436-97-5)	
		4-Chloro-o-toluidinium (3165-93-3)	
		4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate (39156-41-7)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
6.	Waste Water	Dyes – Carcinogenic or Equivalent Concern	GC-BD-ENV-ZDHC-SOP-007 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) (Liquid extraction, LC/MS)
		Basic violate 3 with >0.1% of Michler's Ketone (548-62-9)	
		C.I. Acid Violet 49 (1694-09-3)	
		C.I. Direct Black 38 (1937-37-7)	
		C.I. Direct Blue 6 (2602-46-2)	
		C.I. Acid Red 26 (3761-53-3)	
		C.I. Basic Red 9 (569-61-9)	
		C.I. Direct Red 28 (573-58-0)	
		C.I. Basic Violet 14 (632-99-5)	
		C.I. Disperse Blue 1 (2475-45-8)	
		C.I. Disperse Blue 3 (2475-46-9)	
		C.I. Basic Blue 26 (with Michler's Ketone > 0.1%) (2580-56-5)	
		C.I. Basic Green 4 (Malachite Green Chloride) (569-64-2)	
		C.I. Basic Green 4 (Malachite Green Oxalate) (2437-29-8)	
		C.I. Basic Green 4 (Malachite Green) (10309-95-2)	
		Disperse Orange 11 (82-28-0)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
7.	Waste Water	Dyes – Disperse (Sensitizing)	GC-BD-ENV-ZDHC-SOP-007 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) (Liquid extraction, LC/MS)
		Disperse yellow 1 (119-15-3)	
		Disperse blue 102 (12222-97-8)	
		Disperse blue 106 (12223-01-7)	
		Disperse yellow 39 (12236-29-2)	
		Disperse orange 37/59/76 13301-61-6 (13301-61-6)	
		Disperse brown 1 (23355-64-8)	
		Disperse orange 1 (2581-69-3)	
		Disperse yellow 3 (2832-40-8)	
		Disperse red 11 (11 2872-48-2)	
		Disperse red 1 (2872-52-8)	
		Disperse red 17 (3179-89-3)	
		Disperse blue 7 (3179-90-6)	
		Disperse blue 26 (3860-63-7)	
		Disperse yellow 49 (54824-37-2)	
		Disperse blue 35 (12222-75-2)	
		Disperse blue 124 (61951-51-7)	
		Disperse yellow 9 (6373-73-5)	
		Disperse orange 3 (730-40-5)	
		Disperse blue 35 (56524-77-7)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Organotin compounds	
		Trimethyltin TMT	
		Dimethyltin DMT	
		Monomethyltin MMT	
		Tetraethyltin TeET	
		Dichlorodipropyltin DPrT	
		Monobutyltin MBT	
		Tri-n-propyltin TPrT	
		Dibutyltin DBT	
		Monophenyltin MPhT	
		Tributyltin TBT	
		Mono-n-Octyltin MOT	
		Tetrabutyltin TeBT	
		Diphenyltin DPhT	
		Di-n-octyltin DOT	
		Triphenyltin TPhT	
		Tri-Cyclohexyltin TCyT	
		Di-Propyltin (DPT)	
		Tri-n-octyltin TOT	

GC-BD-ENV-ZDHC-SOP-003 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024)
Based on ref. ISO 17353
Derivatization with NaB (C₂H₅)
GC/MS

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
8.	Waste Water	Ortho-Phthalates – Including all ortho esters of phthalic acid	GC-BD-ENV-ZDHC-SOP-004 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. US EPA 8270E, ISO 18856 Dichloromethane extraction GC/MS
		Di(ethylhexyl) phthalate (DEHP) (117-81-7)	
		Bis(2-methoxyethyl) phthalate (DMEP) (117-82-8)	
		Di-n-octyl phthalate (DNOP) (117-84-0)	
		Di-iso-decyl phthalate (DIDP) (26761-40-0)	
		Di-isononyl phthalate (DINP) (28553-12-0)	
		Di-n-hexyl phthalate (DnHP) (84-75-3)	
		Dibutyl phthalate (DBP) (84-74-2)	
		Butyl benzyl phthalate (BBP) (85-68-7)	
		Dinonyl phthalate (DNP) (84-76-4)	
		Diethyl phthalate (DEP) (84-66-2)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Di-n-propyl phthalate (DPRP) (131-16-8)	GC-BD-ENV-ZDHC-SOP-004 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. US EPA 8270E, ISO 18856 Dichloromethane extraction GC/MS
		Di-isobutyl phthalate (DIBP) (84-69-5)	
		Di-cyclohexyl phthalate (DCHP) (84-61-7)	
		Di-iso-octyl phthalate (DIOP) (27554-26-3)	
		1,2-benzenedicarboxylic acid, di- C7-11-branched and linear alkyl esters (DHNUP) (68515-42-4)	
		1,2-benzenedicarboxylic acid, di- C6-8-branched alkyl esters, C7-rich (DIHP) (71888-89-6)	
		Di-n-pentyl phthalates (DiNP) (131-18-0)	
		Diisopentylphthalates (605-50-5)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
9.	Waste Water	Polycyclic Aromatic Hydrocarbons (PAHs)	GC-BD-ENV-ZDHC-SOP-008 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. US EPA 8270 DIN 38407-39 US EPA 3540/3541, USEPA 3550, US EPA 3560, US EPA 3650, Solvent extraction GC/MS
		Naphthalene (NAP) (91-20-3)	
		Acenaphthylene (ANY) (208-96-8)	
		Acenaphthene (ANA) (83-32-9)	
		Fluorene (FLU) (86-73-7)	
		Phenanthrene (PHE) (85-01-8)	
		Anthracene (ANT) (120-12-7)	
		Fluranthene (FLT) (206-44-0)	
		Pyrene (PYR) (129-00-0)	
		Benzo(a)anthracene(BaA)(56-55-3)	
		Chrysene (CHR) (218-01-9)	
		Benzo(b)fluoranthene (BbF) (205-99-2)	
		Benzo(k)fluoranthene (BkF) (207-08-9)	
		Benzo(a)pyrene (BaP) (50-32-8)	
		Indeno(1,2,3-cd) pyrene (IPY) (193-39-5)	
		Dibenzo(a,h)anthracene (DBA) (53-70-3)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Benzo(g,h,i)perylene (BPE) (191-24-2)	
		Benzo(j)fluoranthene (BjF) (205-82-3)	
		Benzo(e)pyrene (BeP) (192-97-2)	
10.	Sludge	Polycyclic Aromatic Hydrocarbons (PAHs)	GC-BD-ENV-ZDHC-SOP-008 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. US EPA 8270 DIN 38407-39 US EPA 3540/3541, USEPA 3550, US EPA 3560, US EPA 3650, Solvent extraction GC/MS
		Naphthalene (NAP) (91-20-3)	
		Acenaphthylene (ANY) (208-96-8)	
		Acenaphthene (ANA) (83-32-9)	
		Fluorene (FLU) (86-73-7)	
		Phenanthrene (PHE) (85-01-8)	
		Anthracene (ANT) (120-12-7)	
		Fluranthene (FLT) (206-44-0)	
		Pyrene (PYR) (129-00-0)	
		Benzo(a)anthracene (BaA) (56-55-3)	
		Chrysene (CHR) (218-01-9)	
		Benzo(b)fluoranthene (BbF) (205-99-2)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Benzo(k)fluoranthene (BkF) (207-08-9)	GC-BD-ENV-ZDHC-SOP-008 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 8270 DIN 38407-39 US EPA 3540/3541, USEPA 3550, US EPA 3560, US EPA 3650, Solvent extraction GC/MS
		Benzo(a)pyrene (BaP) (50-32-8)	
		Indeno(1,2,3-cd) pyrene (IPY) (193-39-5)	
		Dibenzo(a,h)anthracene (DBA) (53-70-3)	
		Benzo(g,h,i)perylene (BPE) (191-24-2)	
		Benzo(j)fluoranthene (BjF) (205-82-3)	
		Benzo(e)pyrene (BeP) (192-97-2)	
11.	Sludge	Chlorotoluene's	GC-BD-ENV-ZDHC-SOP-002 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. USEPA 3650 USEPA 8270
		2-Chlorotoluene (95-49-8)	
		3-Chlorotoluene (108-41-8)	
		4-Chlorotoluene (106-43-4)	
		2,3-Dichlorotoluene (32768-54-0)	
		2,4-Dichlorotoluene (95-73-8)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		2,5-Dichlorotoluene (19398-61-9)	GC-BD-ENV-ZDHC-SOP-002 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. USEPA 3650 USEPA 8270
		2,6-Dichlorotoluene (118-69-4)	
		3,4-Dichlorotoluene (95-75-0)	
		3,5-Dichlorotoluene (25186-47-4)	
		2,3,4-Trichlorotoluene (7359-72-0)	
		2,3,6-Trichlorotoluene (2077-46-5)	
		2,4,5-Trichlorotoluene (6639-30-1)	
		2,4,6-Trichlorotoluene (23749-65-7)	
		3,4,5-Trichlorotoluene (21472-86-6)	
		2,3,4,5-Tetrachlorotoluene (76057-12-0)	
		2,3,5,6-Tetrachlorotoluene (29733-70-8)	
		2,3,4,6-Tetrachlorotoluene (875-40-1)	
		Penta chlorotoluene (877-11-2)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
12.	Waste Water	Dyes-Navy Blue colorant's C39H23Cl-CrN7O12S 2Na (118685-33-9)	GC-BD-ENV-ZDHC-SOP-007 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Liquid Extraction by LC/MS
13.	Waste Water	Glycols/ Glycol Ethers Ethylene glycol dimethyl ether (110-71-4) 2-Methoxyethanol (109-86-4) 2-Ethoxyethanol (110-80-5) 2-Methoxyethyl acetate (110-49-6) 2-Methoxypropyl acetate (70657-70-4) 2-Ethoxyethyl acetate (111-15-9) Bis(2-methoxyethyl)-ether (111-96-6) Tri ethylene glycol dimethyl ether (112-49-2)	GC-BD-ENV-ZDHC-SOP-009 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) USEPA 8270E
14.	Waste water	Flame Retardants 2,2-bis(bromomethyl)- 1,3-propanediol (BBMP) (3296-90-0)	GC-BD-ENV-ZDHC-SOP-010 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) USEPA 8270E, USEPA 527 and USEPA 8321B

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Bis(2,3-dibromopropyl) phosphate (BIS) (5412-25-9)	
		Decabromodiphenyl ether (1163-19-5)	
		Hexabromocyclodecane (HBCDD) (3194-55-6)	
		Octabromodiphenyl ether (OctaBDE) (32536-52-0)	
		Pentabromodiphenyl ether (PentaBDE) (32534-81-9)	
		Polybromobiphenyls (PBB) (59536-65-1)	
		Tetrabromobisphenol A (TBBPA) (79-94-7)	
		Tris-(2-chloro-1-methylethyl) phosphate (TCPP) (13674-84-5)	
		Tris(1-aziridinyl) phosphine oxide (TEPA) (545-55-1)	
		Tris(1-aziridinyl) phosphine oxide (TEPA) (545-55-1)	
		Tris(1,3-dichloro-isopropyl) phosphate (TDCP) (13674-87-8)	

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	Pollution and Environment		
		Tris(2-chloroethyl) phosphate (TCEP) (115-96-8)	
		Tris (2,3- dibromopropyl)-phosphate (TRIS) (126-72-7)	
		Deca bromobiphenyl (DecaBB) (13654-09-6)	
		Dibromobiphenyls (DiBB) (Multiple)	
		Octa bromobiphenyls (OctaBB) (Multiple)	
		Dibromopropylether (21850-44-2)	
		Heptabromodiphenyl ether (HeptaBDE) (68928-80-3)	
		Hexabromodiphenyl ether (HexaBDE) (36483-60-0)	
		Monobromobiphenyls (MonoBB) (Multiple)	
		Nonabromobiphenyls (NonaBB) (Multiple)	
		Monobromodiphenylethers (MonoBDEs) (Multiple)	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Tetrabromodiphenyl ether (TetraBDE) (40088-47-9)	
		Tribromodiphenylethers (TriBDEs) (Multiple)	
		Boric acid (10043-35-3) (11113-50-1)	
		Diboron trioxide (1303-86-2)	
		(NonaBDE) (63936-56-1)	
		Disodium octaborate (12008-41-2)	
		Disodium tetraborate anhydrous (1303-96-4) (1330-43-4)	
		Tetraboron disodium heptaoxide, hydrate (12267-73-1)	
15.	Waste water	Dimethyl formamide; N,N-dimethylformamide (DMFa) ^a 68-12-2	GC-BD-ENV-ZDHC-SOP-011 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) EPA 8015, EPA 8270E

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
16.	Waste Water	Biochemical oxygen demand (BOD) in waste water	GC-BD-ENV-SOP-002 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. US EPA 405.1 (5 days) APHA 5210B (5 days)
17.	Waste Water	Chemical oxygen demand (COD) in waste water	GC-BD-ENV-SOP-003 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. US EPA 410.4 APHA 5220D
18.	Waste Water & Sludge	Chromium (Cr -VI)	APHA 3500- Cr (VI) B. 23rd (2017) & 3060 a USEPA 218.6
19.	Waste water & Sludge	pH value	GC-BD-ENV-SOP-006 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. APHA 4500-H+ B. 23rd (2017) EPA 9045D, EPA 150.1, EPA SW 9045D

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
20.	Waste water & sludge	Cyanide (Total) in waste water & sludge	GC-BD-ENV-SOP-011 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. USEPA 335.2, USEPA 9013, EPA 9014/ EPA 9213 APHA 4500-CN
21.	Sludge	% Solids	APHA 2540 B 23rd (2017) & US EPA 160.3
22.	Sludge	Paint filter test	EPA 9095B
23.	Waste water	Heavy metals-lead (Pb)	GC-BD-ENV-SOP-015 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. US EPA 200.8 US EPA 6010c US EPA 6020a APHA 3030 & 3120, 23rd (2017) US EPA 3050 & USEPA 3052 EPA 245.1 EPA 245.7
		Cadmium (Cd)	
		Arsenic (As)	
		Mercury (Hg)	
		Chromium (Cr), total	
		Cobalt (Co)	
		Nickel (Ni)	
		Copper (Cu)	
		Antimony (Sb)	
		Silver (Ag)	
		Zinc (Zn) , Tin (Sn)	
		Barium (Ba)	
		Selenium (Se)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
24.	Sludge	Heavy Metals-	GC-BD-ENV-SOP-015 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. US EPA 200.8 US EPA 6010c US EPA 6020a APHA 3030 & 3120, 23rd (2017) US EPA 3050 & USEPA 3052 EPA 245.1 EPA 245.7
		Lead (Pb)	
		Cadmium (Cd)	
		Arsenic (As)	
		Mercury (Hg)	
		Chromium (Cr), total	
		Cobalt (Co)	
		Nickel (Ni)	
		Copper (Cu)	
		Antimony (Sb)	
		Silver (Ag)	
		Zinc (Zn)	
		Barium (Ba)	
		Selenium (Se)	
		Tin (Sn)	
25.	Waste water	Ammonium-Nitrogen in waste water	GC-BD-ENV-SOP-001 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. US EPA 350.1 USEPA 350.3 APHA 4500 NH ₃ -D

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
26.	Waste water	Oil & grease in waste water	GC-BD-ENV-SOP-005 (ZDHC Wastewater Guidelines, Version- 2.2, October, 2024) Based on ref. US EPA 1664 APHA 5520 B
27.	Waste water	Total Nitrogen in waste water	GC-BD-ENV-SOP-004 (ZDHC Wastewater Guidelines, Version- 2.2, October, 2024) Based on ref. US EPA 351.2 APHA 4500 P-J, 4500 N-C
28.	Waste water	Total phosphorus in waste water	GC-BD-ENV-SOP-009 (ZDHC Wastewater Guidelines, Version- 2.2, October, 2024) Based on ref. US EPA 365.4 APHA 4500 P
29.	Waste water	Total suspended solid (TSS) in waste water	GC-BD-ENV-SOP-010 (ZDHC Wastewater Guidelines, Version- 2.2, October, 2024) Based on ref. US EPA 160.2 APHA 2540 D

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
30.	Waste water	Temperature of waste water	GC-BD-ENV-SOP-008 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. APHA 2550 B, 23rd (2017) US EPA 170.1
31.	Waste water	Total phenol in waste water	GC-BD-ENV-SOP-012 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. APHA 5530 B, C& D. 23rd (2017) EPA 420.1
32.	Waste water	Sulphide in waste water	GC-BD-ENV-SOP-017 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. APHA 4500-S2-D
33.	Waste water	Sulfite in waste water	GC-BD-ENV-SOP-019 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. APHA 4500-SO3 2-B. 23rd (2017) USEPA 377.1

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
34.	Waste water	Sulphate in waste water	GC-BD-ENV-SOP-020 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. APHA 4500-SO4 E 23rd (2017) USEPA 300 & USEPA 9038
35.	Waste water	Chloride in waste water	GC-BD-ENV-SOP-021 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. APHA 4500-Cl-B 23rd (2017) USEPA 300
36.	Waste water	Dissolved oxygen (DO)	GC-BD-ENV-SOP-022 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) based on ref. APHA 4500-O-G, H, 23rd (2017) EPA 360.1
37.	Waste water	Total chlorine	GC-BD-ENV-SOP-027 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. APHA 4500-Cl-B 23rd (2017) EPA 330.5

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
38.	Waste water	Total dissolved solids (TDS)	GC-BD-ENV-SOP-024 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. APHA 2540-C 23rd (2017) USEPA 160.1
39.	Waste water	Determination of true Color (ISO) using optical instruments of waste water	GC-BD-ENV-SOP-007 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) Based on ref. ISO 7887: 2011 Method B
40.	Waste water	Adsorbable organic halides (AOX) in waste water	USEPA 1650
41.	Waste water	Persistent foam	Visual Assessment
42.	Waste water	Flowrate	Visual Assessment
43.	Waste water	Perfluorinated and polyfluorinated chemicals (PFCs)	GC-BD-ENV-ZDHC-SOP-012 (ZDHC wastewater guidelines, version-2.2, October, 2024) PFCs: EPA 537:2020 FTOH: BS EN 12673-1999, EPA 8270, PFCs: LC-MSMS FTOH: GC-MS derivatization with Acetic anhydride by GC-MS
		Perfluorooctane sulfonate (PFOS) and related substances	
		Perfluoropentanoic acid (PFPeA) and salts (2706-90-3)	
		Perfluorohexanoic acid (PFHxA) and salts (307-24-4)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Perfluoroheptanoic acid (PFHpA) and salts (375-85-9)	GC-BD-ENV-ZDHC-SOP-012 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) PFCs: EPA 537:2020 FTOH: BS EN 12673-1999, EPA 8270, PFCs: LC-MSMS FTOH: GC-MS Derivatization with acetic anhydride followed by GC-MS
		HPFHpA, and salts (1546-95-8)	
		Perfluorooctanoic Acid (PFOA) and salts (335-67-1)	
		PF-3,7-DMOA, and salts (172155-07-6)	
		Perfluorononanoic Acid (PFNA) and salts (375-95-1)	
		Perfluorodecanoic Acid (PFDA) and salts (335-76-2)	
		Perfluoroundecanoic Acid (PFUnDA) and salts (2058-94-8)	
		4HPFUnA, and salts (34598-33-9)	
		Perfluorododecanoic Acid (PFDoA) and salts (307-55-1)	
		Perfluorotetradecanoic Acid (PFTeDA) and salts (376-06-7)	
		Perfluorobutansulfonate (PFBS) and salts (375-73-5) (59933-66-3)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Perfluorohexansulfonate (PFHxS) and salts (355-46-4)	GC-BD-ENV-ZDHC-SOP-012 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) PFCs: EPA 537:2020 FTOH: BS EN 12673-1999, EPA 8270, PFCs: LC-MSMS FTOH: GC-MS Derivatization with acetic anhydride followed by GC-MS
		Perfluoroheptansulfonate (PFHpS) and salts (375-92-8)	
		Perfluorooctansulfonate (PFOS) and salts (1763-23-1)	
		1H,1H,2H,2H-PFOS, and salts (27619-97-2)	
		Perfluoro-1-octanesulfonamide (PFOSA) (754-91-6)	
		N-methylperfluoro-1-octanesulfonamide (N-eFOSA) (31506-32-8)	
		N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) (4151-50-2)	
		1H,1H,2H,2H-perfluoro-1-octanol (6:2 FTOH) (647-42-7)	
		1H,1H,2H,2H-perfluoro-1-decanol (8:2 FTOH) (678-39-7)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
44.	Waste Water	Chlorinated paraffins	GC-BD-ENV-ZDHC-SOP-013 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) EPA 3510, ISO18219-1:2021, ISO 18219-2:2021
		Medium-chain chlorinated paraffins (MCCPs) (C14-C17)	
		Short-chain chlorinated paraffin (C10 – C13)	
45.	Waste Water	Other/miscellaneous chemicals	GC-BD-ENV-ZDHC-SOP-013 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) EPA 8270, Liquid-Liquid Extraction followed by LC MS/MSSOP
		AEEA [2-(2-aminoethylamino) ethanol]	
		Bisphenol A	
		Thiourea	
		Quinoline	
46.	Waste Water	Borate, zinc salt	GC-BD-ENV-ZDHC-SOP-005 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) LFGB.82.02-8, USEPA 8270D, USEPA 8270E, ISO 17070: 2015 & BSEN 12637-1999
		Anti- microbials & biocides	
		o-Phenyl phenol (+salts)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Triclosan	GC-BD-ENV-ZDHC-SOP-013 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) EPA 8270, Liquid-Liquid Extraction followed by LC MS/MS
		Permethrin	GC-BD-ENV-ZDHC-SOP-013 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) USEPA 8270 E, ISO 14154:2005
47.	Waste Water	UV Absorbers 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320) 2,4-DiO-tert-butyl-6-(5-Chlorobenzotriazole-2-yl) phenol (UV-327)	GC-BD-ENV-ZDHC-SOP-013 (ZDHC Wastewater Guidelines, Version-2.2, October, 2024) USEPA 8270, ISO 22032, USEPA 527 and USEPA 8321B

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
1.	Garment & Apparel-Fabrics (Woven & Non-Woven), Grey Fabric, Finished Fabric, Terry Fabrics & its products & Yarns & Chords	Tensile properties- strip method	ISO 13934 -1 : 2013 ASTM D5035: 2011 (R-2025) SASO ISO 13934 - 1: 2003
2.		Tensile properties- grab method	ISO 13934-2: 2014 ASTM D5034-2021(R-2025) AS 2001.2.3.2:2001(R-2016)
3.		Tear strength (Elmendorf method)	ISO 13937-1:2000/Cor1 2004 ASTM D1424: 2021(R-2025) SASO ISO 13937 - 1: 1990 AS 2001.2.8:2001 (R2016)
4.		Tear strength	ISO 13937-2:2000 ASTM D2261:2013 (R-2024)
5.		Seam strength - strip method	ISO 13935 - 1: 2014
6.		Seam strength- grab method	ISO 13935-2: 2026
7.			AS 2001.2.20:2004 (R2016)
8.		Seam Slippage	ASTM D 1683:2022
9.		Seam slippage: fixed seam opening method	ISO 13936-1 : 2004
10.		Seam slippage: fixed load method	ISO 13936-2 : 2004 AS 2001.2.21:1989 (R2016) AS 2001.2.22:2006 (R2016)

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Mechanical Testing			
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	Textile Materials		
11.		Bursting strength: hydraulic method	ISO 13938 - 1: 2019
			SASO ISO 13938-1:1999
			ASTM D3786:2014 (R 2023)
12.		Bursting strength: Pneumatic method	ISO 13938 - 2: 2019
			SASO 1630: 1999 Clause 16
13.		Pilling resistance-ICI pilling	ISO 12945-1: 2020
14.		Pilling resistance- random tumble pilling method	ISO 12945-3: 2020
			ASTM D3512 M:2016 (R-2022)
15.		Abrasion resistance	ISO 12947-2:2016
16.		Abrasion resistance	ISO 12947-3:1998
17.		Abrasion resistance	ISO 12947-4:1998
18.		Abrasion resistance	ASTM D4966-2022 Option-1
19.		Abrasion resistance	ASTM D4966-2022 Option-2
20.		Abrasion resistance	ASTM D4966-2022 Option-3
21.		Fabric weight per unit area (GSM)	ISO 3801: 1977 (M-05)
	BS EN 12127: 1998		
	ASTM D 3776 /D3776 M-09a (2020) (R-2025) Option C		
	SASO ISO 3801: 1977 (M-05)		
	AS 2001.2.13:1987 (R2016)		

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
22.		Flammability of general clothing textiles	16 CFR 1610: 2023
			CAN/CGSB-4.2 No. 27.5:2023
			16 CFR 1615:2010
			16 CFR 1616:2010
			ASTM D1230:2022
			BS EN 14878:2007
23.		Stretch and recovery (Knitted)	ASTM D2594 :2021
24.		Stretch and recovery (Woven)	ASTM D3107: 2007 (R-2019)
25.		Yarn count	ASTM D1059: 2017
26.		Determination of courses and wales	ASTM D8007: 2019 (R-2024)
27.			SASO 1170: 1997 Clause 7
			AS 2001.2.6:2001 (R2016)
28.		Thread per unit length (woven fabric construction)	ISO 7211-2: 2024
			ASTM D3775: 2017e1 (R- 2023)
			BS EN 1049-2: 2024
			AS 2001.2.5:1991 (R2016)
29.		Martindale pilling	ISO 12945-2:2020
30.		Fabric width	ISO 22198: 2006
			ASTM D3774: 2018 (R-2024)
			SASO ISO 22198: 2006 /2015

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Mechanical Testing			
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	Textile Materials		
31.		Distortion in bowed and skewed fabrics	ASTM D3882: 2008 (R-2020)
32.		Yarn twist	ASTM D1422:2020 ASTM D1423:2022
33.		Determination of linear density of yarn removed from fabric	ISO 7211-5:2020 EN 14970:2006
34.		Determination of dimension	ISO 3018: 1974
35.			SASO 1626: 2002 (Clause 15 & 16)
36.		Determination of the elasticity of fabric strip test	ISO 20932-1:2018
37.		Sharp edge and sharp point	ASTM F963: 2023 (4.7 & 4.9) 16 CFR 1500.48 16 CFR 1500.49
38.		Sharp point, sharp edge and small part	BS EN 71 Part -1: 2014+A1:2018 (4.7) BS EN 71 Part -1: 2014+A1:2018 (4.8) BS EN 71 Part -1: 2014+A1:2018 (8.2)

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Scope of Accreditation

Geo Chem Consumer Products Services (CPS) Ltd.

SB Plaza (6th & 7th floor), Plot No. 37, Sector- 3, Uttara Commercial Area,
Dhaka – 1230, Bangladesh

QAI/CIA/TL/2024/0065

Date of First Accreditation: 11 July 2024 - 10 July 2026

Valid from: 11 July 2026

Valid until: 10 July 2028

Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
39.		Small parts (choking hazards)	16 CFR 1501
40.		Torque & tension test	16 CFR 1500.51
			16 CFR 1500.52
			16 CFR 1500.53
			BS EN 71 Part -1: 2014+A1:2018 (8.3)
			BS EN 71 Part -1: 2014+A1:2018 (8.4)
41.		Button impact resistance	ASTM D5171:15 (2020)
42.		Slide fasteners (zipper) tests: top stop strength	BS EN 16732:2025
43.		Slide fasteners (zipper) tests: bottom stop strength	BS 3084:2006
			BS EN 16732:2015
44.		Slide fasteners (zipper) tests: open end slide fastener single stringer slider retention	BS 3084:2017
			BS EN 16732:2015
45.		Slide fasteners (zipper) tests: torque strength	BS EN 16732:2015
			BS 3084:2006

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
46.		Slide fasteners (zipper) tests: lateral strength of open-end attachment	BS EN 16732:2015 BS 3084:2006
47.		Slide fasteners (zipper) tests: lateral strength of slide fastener	BS EN 16732:2015 BS 3084:2006
48.		Slide fasteners (zipper) tests: puller attachment strength	BS EN 16732:2015 BS 3084:2006
49.		Slide fasteners (zipper) tests: open end slide fastener box	BS EN 16732:2015 BS 3084:2006
50.		Slide fasteners (zipper) tests: resistance to reciprocating	BS EN 16732:2015 BS 3084:2006
51.		Slide fasteners (zipper) tests: slider lock holding strength	BS EN 16732:2015 BS 3084:2006
52.		Zipper strength test	ASTM D 2061:07 (2021) Sec-(9 to 15), Sec-(17 to 23), Sec- (25 to 31), Sec (52-60), (70 to 80) & (92 to 99)]
53.		Standard test method for operability of zippers-opening & closing of zippers	ASTM D 2062:03 (2021) Sec-(14-17)
54.		Standard test method for pile fabric abrasion	ASTM D 4685:2020 (R-2025)

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile Materials		
55.		Standard test method for resistance to unsnapping of snap fasteners	ASTM D 4846:96 (2021)
56.		Standard test method for holding strength of prong-ring attached Snap fasteners	ASTM D 7142:05 (2021)
57.		Seam twist	AATCC TS-004
58.		Methods of test for knitted fabrics	BS 5441:1988+A1:2019 (Sec-2, Part-8)
59.		Method for determination of removal force of attached components	BS 7907:2017 (Annex-B)
60.		Method for determination of removal force of attached non-grippable component	BS 7907:2017 (Annex- C)

