



**National Accreditation Board for
Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

**GEO CHEM CONSUMER PRODUCTS
SERVICES (CPS) LTD.**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

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

in the field of

TESTING

Certificate Number TC-8574

Issue Date 12/07/2019

Valid Until 11/07/2021

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL



89076970100030002498

N. Venkateswaran
Chief Executive Officer



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SCOPE OF ACCREDITATION

Laboratory Geo Chem Consumer Products Services (CPS) Ltd., SB Plaza (6th & 7th Floor), Plot No. 37, Sector-3, Uttara Commercial Area, Dhaka, Bangladesh

Accreditation Standard ISO/IEC 17025: 2017

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	TEXTILE			
1.	Garment & Apparel-Fabrics (Woven & Non-Woven) /carpet & Rugs/ Sports Textile/ Terry fabric & its Products/Yarn & Chords/Others	Dimensional Changes after Home Laundering	AATCC 135 : 2018 AATCC 150 : 2018	(-)50 % to 50 %
		Dimensional Change after Washing	SASO ISO 3759 : 2011/ 5077 : 2007/6330 : 2012	(-)50 % to 50 %
		Dimensional Stability to Dry-Cleaning	ISO 3175-1 : 2017/ 3175-2 : 2017 AATCC 158 : 2016	(-)50 % to 50 %
		Smoothness Appearance of Fabrics after Repeated Home Laundering	ISO 7768 : 2009 AATCC 124 : 2018	Qualitative
		Appearance of Apparel and Other Textile End Product after Repeated Home Laundering	ISO 15487 : 2018 AATCC 143 : 2018	Qualitative
		Evaluation Smoothness of Seam in Fabric after Repeated Home Laundering	ISO 7770 : 2009 AATCC 88 B : 2018	Qualitative
		Retention of Creases in Fabric after Repeated Home Laundering	ISO 7769 : 2009	Qualitative
		Skewness Change /Spirality /Torque	ISO 16322-1 : 2005 ISO 16322-2 : 2005 ISO 16322-3 : 2005 AATCC 179 : 2017	0.3 % to 50 %
		Dimensional Change of Fabric Induced by Free Steam	ISO 3005 : 1978 BS 4323 : 1979 SASO ISO 3005 : 1978	(-)50 % to 50 %

Anuja

Anuja Anand
Convenor

Avijit Das

Avijit Das
Program Manager



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		Absorbency	AATCC 79 : 2018	1 s to 60 s
		Wicking Procedure	AATCC /TS-017 : 2017	5 s to 30 s
		Fabric and Garment Odour	SNV 195651 :1968	Qualitative
		Color Fastness to Organic Solvent	ISO 105 X05 : 1994 SASO ISO 105 X05 : 1994	Qualitative
		Color Fastness to Perspiration and Light	AATCC 125 : 2013	Qualitative
		Color Fastness to Dye Transfer in Storage	AATCC 163 : 2013	Qualitative
		Color Fastness to Phenolic Yellowing	ISO 105 X18: 2007	Qualitative
		Color Fastness to Ozone	ISO 105 G03: 1993	Qualitative
		Fiber Analysis (Qualitative & Quantitative)	AATCC 20: 2018 AATCC 20A: 2018	Qualitative Upto 100 %
			ISO 1833-1:2006 (Annexure B) SASO ISO 1833-1:2006 (Annexure B)	
			ISO 1833-1: 2006	Upto 100 %
			ISO 1833-3: 2019	
			SASO ISO 1833-3: 2006	
			ISO 1833-1:2006	Upto 100 %
			ISO 1833-4:2017	
			SASO ISO 1833-4: 2006	
			ISO 1833-1:2006	Upto 100 %
			ISO 1833-6: 2018	
			ISO 1833-1:2006	Upto 100 %
			ISO 1833-7:2017	
			SASO ISO 1833-7: 2006	
			ISO 1833-1:2006	Upto 100 %
			ISO 1833-11:2017	
			SASO ISO 1833-11: 2006	
			ISO 1833-1:2006	Upto 100 %

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			ISO 1833-12:2019	
			SASO ISO 1833-12: 2006	
		Color Fastness to Light	ISO 105 B02 : 2014	Qualitative
			AATCC 16.3 : 2014	
			SASO ISO 105 B02 : 2014	
		Color Fastness to Artificial Saliva	DIN 53160-1-2010-10	Qualitative
			DIN 53160-2-2010-10	
		Color Fastness to Hot Pressing	ISO 105 X11 : 1994	Qualitative
			AATCC 133 : 2013	
		Color Fastness to Washing	ISO 105 C10 : 2006	Qualitative
			ISO 105 C06 : 2010	
			AATCC 61 : 2013	
			SASO ISO 105 C10 : 2007	
			SASO ISO 105 C06 : 2010	
		Color Fastness to Dry Cleaning	ISO 105 D01 : 2010	Qualitative
			AATCC 132 : 2013	
			SASO ISO 105 D01 : 2010	
		Color Fastness to Water	ISO 105 E01 : 2013	Qualitative
			AATCC 107 : 2013	
			SASO ISO 105 E01 : 2013	
		Color Fastness to Sea Water	ISO 105 E02 : 2013	Qualitative
			AATCC 106 : 2013	
			SASO ISO 105 E02 : 2013	
		Color Fastness to Chlorinated Pool Water	ISO 105 E03 : 2010	Qualitative
			AATCC 162 : 2011	
			SASO ISO 105 E03 : 2010	
		Color Fastness to Perspiration	AATCC 15 : 2013	Qualitative
			ISO 105 E04 : 2013	
			SASO GSO 1268 : 2002	
		Color Fastness to Chlorine Bleach	AATCC TS 001	Qualitative
		Color Fastness to Non - Chlorine Bleach	AATCC TS 001	Qualitative

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		Color Fastness to Rubbing / Crocking	ISO 105 X12 : 2016 AATCC 8 : 2016 SASO ISO 105 X12 : 2001 SASO 2331 : 2005	Qualitative
		Color Fastness to Water Spotting	ISO 105 E07 : 2010 AATCC 104 : 2014 SASO ISO 105 E07 : 2010	Qualitative
		pH Value	ISO 3071 : 2005 AATCC 81 : 2016 SASO ISO 3071 : 2005	1 to 14

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MECHANICAL TESTING

I.	TEXTILE MATERIAL			
1.	Fabrics (Woven & Non-Woven)/ Garments & Apparel	Tensile Properties- Strip Method	ISO 13934 -1 : 2013 ASTM D5035: 2011 (R-2015) SASO ISO 13394 - 1 : 2003	Force: 50 N to 4500 N Elongation: 5 % to 100 %
		Tensile Properties- Grab Method	ISO 13934-2: 2014 ASTM D5034-2009 (R-2017)	Force: 5 N to 4500 N Elongation: 5 % to 100 %
		Tear Strength (Elmendorf Method)	ISO 13937-1:2000/Cor1 2004 ASTM D1424: 2009 (R-2013e1) SASO ISO 13937 - 1: 1990	240 gf to 6400 gf (2.35 N to 62.8 N)
		Tear Strength	ISO 13937-2:2000 ASTM D2261:2013 (R-2017)	5 N to 2000 N
		Seam Strength - Strip Method	ISO 13935 - 1: 2014	50 N to 2000 N
		Seam Strength- Grab Method	ISO 13935-2: 2014	50 N to 2000 N
		Seam Slippage	ASTM D 1683: 2017(2018)	50 N to 2000 N
		Seam Slippage: Fixed Seam Opening Method	ISO 13936-1 : 2004	50 N to 2000 N
		Seam Slippage: Fixed Load Method	ISO 13936-2 : 2004	50 N to 2000 N
		Bursting Strength: Pneumatic Method	ISO 13938 - 2: 1999 SASO 1630: 1999 Clause 16	14 psi to 101 psi (96.5 kPa to 696 kPa)

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		Pilling Resistance-ICI Pilling	ISO 12945-1: 2000	Qualitative
		Pilling Resistance- Random Tumble Pilling Method	ISO 12945-3: 2014 ASTM D3512 M-2016	Qualitative
		Abrasion Resistance	ISO 12947-1:1998 ISO 12947-2:2016	1 cycle to 999999 cycles (2 Threads Breakage)
			ISO 12947-1:1998 ISO 12947-3:1998	0.01 % to 10 %
			ISO 12947-1:1998 ISO 12947-4:1998	Color Change
			ASTM D4966-12 (Re-2016) Option-1	1 to 999999 cycles (2 threads breakage)
			ASTM D4966-12 (Re-2016) Option-2	Qualitative
			ASTM D4966-12 (Re-2016) Option-3	0.01 % to 10 %
		Fabric Weight per Unit Area (GSM)	ISO 3801 : 1977 (M-05) BS EN 12127 : 1998	5 g/m ² to 1000 g/ m ²
			ASTM D 3776 /D3776 M-09a (2017) Option C	
			SASO ISO 3801 : 1977 (M-05)	
		Flammability of General Clothing Textiles	16 CFR 1610 : 2007	1 s to 50 s
		Stretch and Recovery (Knitted)	ASTM D2594 : 2004 (R-2016)	0.1 % to 100 %
		Stretch and Recovery (Woven)	ASTM D3107 : 2007 (R-2015)	0.1 % to 100 %
		Yarn Count	ASTM D1059 : 2017	5s Ne to 120s Ne
		Courses and Wales	ASTM D8007 : 15e1	10/cm to 100/cm
			SASO 1170 : 1997 Clause 7	25/inch to 245/inch

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		Thread per Unit Length (Woven Fabric Construction)	ISO 7211-2 : 1984 ASTM D3775 : 2017 BS EN 1049-2 : 1994	2 Threads/cm to 80 Threads/cm 5 Threads/inch to 200 Threads/inch
		Fabric Width	ISO 22198 : 2006 ASTM D3774 : 2018 SASO ISO 22198 : 2006 / 2015	1 cm to 200 cm (10 mm to 2000 mm)
		Distortion in Bowd and Skewed Fabrics	ASTM D3882 : 2008 (R-2018 e1)	0 to 50 %
		Yarn Twist	ASTM D1422:2013 ASTM D1423:2008	10 TPM to 900 TPM
		Dimension	ISO 3018: 1974 SASO 1626: 2002(Clause 15&16)	10 cm to 500 cm
		Elasticity of Fabric Strip Test	BS EN 14704-1 : 2005 Method A	0.1 % to 100 %
		Sharp Edge and Sharp Point	ASTM F963 : 2017 (4.7 & 4.9) 16 CFR 1500.48 16 CFR 1500.49	Qualitative
		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)	Qualitative
		Small Parts (Chocking Hazards)	16 CFR 1501	Qualitative
		Torque & Tension Test	16 CFR 1500.51 16 CFR 1500.52 16 CFR 1500.53	Qualitative

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			BS EN 71 Part -1 : 2014 + A1:2018 (8.3)	
			BS EN 71 Part -1 : 2014 + A1:2018 (8.4)	
			ASTM F 963 : 2017 (Section 8.8 & 8.9)	
		Button Impact Resistance	ASTM D5171 : 2015	Qualitative

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