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Accreditation No: LAB 007

Awarded to

**SGS Consumer & Retail Services – Laboratory
H-3/3, Sector 5, Korangi Industrial Area, Karachi – 74900,
Pakistan.**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc. and shall not mislead its users.

The accreditation was first time granted on **02-01-2004** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017**.

The accreditation requires regular surveillance, and is valid until **31-01-2023**

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

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Testing Laboratory

Accreditation Scope of Consumer & Retail Services Laboratory, H- 3/3,
Korangi Industrial Area, Karachi, Pakistan

Permanent laboratory premises X

Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
Textile Material/ Products	Physical	Fabric weight Unit Area/Length	ASTM D 3776-2013, ISO 3801-1977 / Weighing Balance
	Physical	Ends & Picks (Woven Fabric)	ASTM D 3775-2017 / Pick Counter
	Physical	Stitch Density (Knitted Fabric)	ASTM D 3887-2008, BS 5441-88 / Pick Counter
	Physical	Fabric Shrinkage	AATCC 135:2018, ISO 3759:2011, 5077:2007, 6330:2012 GB/T 8629:2017 / Wascator, Top Loading

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	Physical	Garment Shrinkage	AATCC 150:2018,ISO 3759:2011,5077:2007,6 330:2012 / Wascator, Top loading
Textile Material/ Products	Physical	Appearance after wash	AATCC124:2018, AATCC 143 : 2018 / Top Loading Washing Machine , SA Replica
	Physical	Skewness after wash	AATCC179:2019 / Wascator & Top Loading
	Physical	Color fastness to washing	AATCC 61:2013, BS EN ISO 105:CO6:2010, ISO 105: CO1-CO5:1989 / Laundrometer , Grey Scale
	Physical	Color fastness to perspiration	AATCC 15:2013,BS EN ISO 105-EO4:2013, GB/T 3922: 2013 / Grey scale, Incubator, Perspiration tester
	Physical	Color fastness to rubbing	AATCC 8:2016,BS EN ISO 105-X12:2001, GB/T 3920 : 2008 / Crockmeter, Grey scale

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	Physical	Color fastness to water	AATCC 107:2013, BS EN ISO 105-E01:2013/ Perspiration tester ,grey scale GB/T 5713: 2013 / Incubator, Perspiration tester
Textile Material/ Products	Physical	Color fastness to sea water	AATCC 106:2013, BS EN ISO 105-E02:2013 / Perspiration tester ,grey scale
	Physical	Sweat & saliva	DIN 53160-1 : 2010 , DIN 53160 -2 : 2002, GB/T18886:2019 / Perspiration Tester, Incubator
	Physical	Color fastness to dry-cleaning	BS EN ISO 105-D01:2015 / Laundrometer , Grey Scale
	Physical	Color fastness to Non Chlorine Bleach	AATCC 172:2016 / Top Loading Grey Scale
	Physical	Determination of the Tensile Strength & Elongation of woven fabric. a) Garb Method	ASTM 5034-2013, ISO 13934-2:2014, ASTM 5035-2015, ISO 13934-1:2013 ASTM D1683:2017

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		b) Strip method	NF G 92 005, UNE 40902:2020 / Universal Strength Tester
	Physical	Bursting Strength	ASTM D3786-2018 / Mullen Burst Tester (ISO 13938-1:2019)
Textile Material/ Products	Physical	Smoothness of seam	AATCC 88B : 2018 / Top Loading Washing Machine
	Physical	Seam Slippage	ASTM 434-95, BS 3320: 1988 / Universal Strength Tester
	Physical	Retention of creases in fabric	AATCC 88C: 2018 / Top Loading Washing Machine
	Physical	Tearing Strength Elmatar	ASTM D 1424: 2013, ISO 13937-1: 2000 / Pendulum tear tester

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	Physical	Tearing Force (Single Rip tear method)	ISO 13937-2: 2000 / ASTM D2261: 2013 ISO 3377-2:2016 / Universal Strength Tester
	Physical	Spray rating test	AATCC 22:2017, ISO 4920:2012 / Spray Tester , Replica
	Physical	Oil Repellency: Hydrocarbon Resistance Test	AATCC118:2013, ISO 14419:2010 / Oil Kit ,Photographic Replica
Textile Material/ Products	Physical	Abrasion Resistance	ISO12947-2:2016 / Nu- Martindale Abrasion tester , Grey Scale
	Physical	Pilling Resistance	ISO12945-2: 2000 ISO 12945-1: 2000 / ICI Pilling Box, Nu- Martindale Abrasion tester , Photographic Replica
	Physical	Colourfastness to domestic & commercial appear# using a non-phosphate reference detergent incorporates a low temperature bleach activator.	ISO 105 C08:2015 / Laundrometer , Grey Scale

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	Physical	Colourfastness to domestic & commercial laundering- Oxidative bleach response using a non-phosphate reference detergent incorporate a low temperature bleach activator	ISO 105 C09: 2019 / Laundrometer , Grey Scale
	Physical	Colourfastness to Chlorinated water	ISO 105 E03:2015,BS EN ISO 105 E03:2010 / Laundrometer , Grey Scale
	Physical	Colourfastness to Dry Cleaning	AATCC 132:2013 ISO 11643:2009 / Laundrometer , Grey Scale
Textile Material/ Products	Physical	Phenolic Yellowing of Textile	ISO 105 X18:2007 / Oven, Grey Scale
	Physical	Colourfastness to Heat: Hot Pressing	ISO 105 X11:1994, AATCC 133:2013 / Thermoplate , Grey Scale

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	Physical	Yarn Count	ISO-7211-5:1984 / Scale , Balance ASTM D1059:2017 , BS EN 14970 : 2006 / Twist Tester
	Physical	Seam Strength	ISO-13935-2:2014 / Universal Strength Tester
	Physical	Seam Slippage – Fixed seam opening method	ISO-13936-1:2004 / Universal Strength Tester
	Physical	Seam Slippage – Fixed Load Method	ISO-13936-2:2004 / Universal Strength Tester
Textile Material/ Products	Physical	Torque Test	16CFR1500.51/ 52/53:2012/ ASTM F963 : 2017 Section 8.8, EN 71 -1: 2014 Clause 8.3 / <i>Torque Force Gauge</i>

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	Physical	Tension Test	16CFR1500.51/ 52/53:2012/ ASTM F963 : 2017 Section 8.9, EN 71 -1: 2014 Clause 8.4 / Snap Tester
	Physical	Sharp Edges	16 CFR 1500.49:2012/ ASTM F963 : 2017 Section 4.7, , EN 71 -1: 2014 Clause 8.11 / Sharp Edge Tester
	Physical	Sharp Points	16 CFR 1500.48:2012/ ASTM F963 : 2017 Section 4.9, , EN 71 -1: 2014 Clause 8.12 / Sharp Point Tester
	Physical	Small Parts	16 CFR Part 1501:2015/ ASTM F963 : 2017 Section 4.6, EN 71 -1: 2014 Clause 8.2, Tension test - CEN/TR 16792:2014 Annex B BS 7907 / Small Parts Cylinder Universal strength tester
	Physical	Stretch & Recovery	ISO 14704-1:2005,BS EN ISO 14704-1:2005/ ASTM D3107 : 2007 Reapproved 2015 /

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Materials/Pr oducts tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
			Stretch & recovery tester Universal Strength Tester
Textile Material/ Products	Physical	Color Fastness to Light	ISO 105 B02:2014, BS EN ISO 105 BO2:2014/ AATCC 16.3 : 2014 / Ci 4000, Xenon Light Fastness
	Physical	Soil release oily stain release method	AATCC 130:2018 / Top Loading , soil Release stain replicas
	Physical	Flammability of Textiles	16CFR Part 1610:2012, ASTM D 1230:2017/ Flammability Tester BS EN 14878 : 2007 / EN 1103 : 2005/ DIN EN ISO 6940/6941 / BS 5438 / BS 5722/ EN-71-2/ US - 16 CFR 1616 Fitted Children Sleepwear +6/ US - 16 CFR 1615 Loose Children Sleepwear -6 / Flexiburn

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	Physical	Colourfastness to ozone	AATCC 109 : 2013 / Ozone chamber
	Physical	Cord and Drawstring	EN 14682:2014, GB 31701: 2015 (Clause 4.4.3) / Scale
Textile Materials/ Product	<i>Physical</i>	<i>Spirality in fabric and garment after laundrying</i>	<i>ISO 16322-2 & 3:2005 / Electrolux Wascator Measuring Scale</i>
Textile Materials/Product	<i>Physical</i>	<i>Slide fasteners</i>	<i>BS 3084:2001 EN 16732:2015 / Universal strength Tester</i>
	<i>Physical</i>	<i>Water Resistance impact penetration</i>	<i>AATCC 42:2017 / Water resistance tester</i>

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	<i>Physical</i>	<i>Water resistance Hydrostatic head pressure</i>	<i>AATCC 127:2017 ISO 811:2018 / Hydrostatic head tester</i>
	<i>Physical</i>	<i>Smouldering Cigarette test</i>	<i>ISO 12952-1 &2:2010 / Flame chamber with test rig</i>
	<i>Physical</i>	<i>Dimensional Changes on Dry Cleaning in Perchloroethylene</i>	<i>AATCC 158:2016 / Commercial dry cleaning machine</i>
Textile Materials/Product	<i>Physical</i>	<i>Dimensional change in commercial laundering</i>	<i>AATCC 96:2012 / Commercial home laundering machine</i>
	<i>Physical</i>	<i>Appearance after domestic washing and drying</i>	<i>GB/T 8629:2017 / Electrolux Wascator Measuring Scale</i>

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	<i>Physical</i>	<i>Odour</i>	<i>SNR 195651:2015</i>
Textile Material/ Products	Chemical	pH of aqueous extract	AATCC 81:2016, ISO 3071:2020, GB/T 7573:2009 / pH Meter
	Chemical	Azo Amines	EN 14362-1:2012, EN 14362-3:2012 , GB/T 17592:2011, GB/T 23344:2009, EN 14362- 1&2:2003, §64 LFGB, BVL, B82.02-9-2008, ISO 14362-1:2017 & ISO 14362-3 : 2017 / GC-MS/HPLC-DAD
	Chemical	Formaldehyde Content	ISO 14184-1/2 : 2011,AATCC 112:2014, JPLAW 112: 1975, JISL 1041:2011, GB/T 2912.1-2009 / UV Spectrophotometer
	Chemical	1-Fibre Analysis (Qualitative) 2-Fibre Analysis (Quantitative)	AATCC20-2018, AATCC 20A-2018, ISO 1833:2019 GB/T 2910 : 2009 GB/T 29862: 2013 GB/T 16988: 2013 FZ/T 01057: 2007

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			FZ/T 01026: 2009 FZ/T 01095: 2002 / Oven , Microscope
	Chemical	Ortho Phenyl Phenol (OPP)	In-House Method / GC-MS
Textile Materials/Product	Chemical	Selected volatile Organic Compounds VOC's) DMFa	Derived method based on EPA Method 8260C EPA Method 3585 EPA Method 5000, ISO 16189:2013 / GC-MS
	Chemical	Polycyclic Aromatic hydrocarbons (PAH)	Derived method based on EPA 610, AFPS GS 2019:01 PAK / ISO/DIS 18287 / GC-MS
	Chemical	Chlorinated Organic Carrier	DIN 54232:2010 / GC-MS
	Chemical	Organotin	Derived method based on BS ISO 17353:2004, DIN EN ISO 17353:2005, ISO 17353:2004, DIN 38407-13:2001, ISO 16179:2012 / GC-MS

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	Chemical	TCP, TeCP, PCP (Alkaline Distillation)	§64LFGB, B 82.02.08-2001, DIN 53313:1993, ISO 17070: 2015 / GC-MS , GC-ECD
	Chemical	Extractable Heavy Metal	OEKO-Tex Standard 100 , ISO 105 E04:2018, EN ISO 17072-1:2019 EN 16711-2:2015 DIN 54233-3:2010 GB/T 17593.3:2016 / ICP-MS
Textile Materials/Product	Chemical	Safety of Toys EN 71-3	EN 71-3 :2019 +A1 :2014, EN71-3:1994 + A1:2000 , AC:2002 / ICP-MS
	Chemical	TCP, TeCP, PCP (Steam Distillation)	§64LFGB, B 82.02.08-2001, ISO 17070: 2015 / GC-MS, GC-ECD
	Chemical	Determination of Allergenic, Carcinogenic dyestuff, Navy blue colorant	DIN 54231:2005 § 64 LFGB BVL B 82.02.10 – 2007 GB/T 20382:2006 (mod) GB/T 20383:2006 (mod) GB/T 30398:2013 (mod) GB/T 30399:2013 (mod) / HPLC-DAD, HPLC-MS

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Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
	Chemical	Determination of Alkylphenol & Alkylphenol ethoxylate	ISO 18218-1:2015 , ISO/FDIS 18254:2016 GB/T 23972:2009 ISO 18218-2: 2019 ISO 21084:2019 / HPLC-MS , GC-MS
	Chemical	Phthalates Content	CPSC-CH-C1001-09.4 , EN 14372:2004, ISO 14389:2014 GB/T 24168:2009 / GC-MS
	Chemical	Polyvinyl chloride (PVC) & Polyurethane (PU)	In- House Method / FTIR
Textile/ Plastics/ Rubber	Chemical	Polycyclic Aromatic hydrocarbons (PAH)	Derived method based on EPA 610, AFPS GS , 2019:01 PAK / GC-MS
	Chemical	Perflourinated and polyflourinated chemicals (PFCs)	CEN/TS 15968:2010, GB/T 29493.2:2013 / HPLC-MS
	Chemical	Dimethyl Fumarate (DMFu)	ISO 16186 : 2012 In-House Method / GC-MS
	<i>Chemical</i>	<i>Styrene</i>	<i>EPA method 8260C,3585,5000 RSTS-CHEM-220-2</i>

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	<i>Chemical</i>	<i>Acetophenone (2-Phenyl Propanol)</i>	<i>In house test method RSTS-CHEM-255-1</i>
	<i>Chemical</i>	<i>Bisphenol BPA (S,F, AF)</i>	<i>As per AFIRM RSTS-CHEM-239-3</i>
	<i>Chemical</i>	<i>Solvents (Benzene NMP, DMAc , Formamide)</i>	<i>ISO /TS 16189:2013 In house test method RSTS-CHEM-220-1</i>
	<i>Chemical</i>	<i>Pesticides</i>	<i>EPA 8081B / EPA 8141B / EPA 8270D / EPA 8321B / EPA 8151A</i>

Textile/ Wet Paint/ Surface Coating Materials	Chemical	Lead & Cadmium Content	Derived method based on US Public law 110-314,ASTM E 1613-04,ASTM E 1645,CPSC-CH-E1003-09.1,Part 1303, title 16 CFR, USA ,CPSC-CH-E1002-08.1, ASTM F963-96a clause 4.35, ASTM F963-03 clause 4.35 ASTM F963-07 clause 4.35, EN 1122: 2001 / AAS , ICP-OES ,ICP-MS
	Chemical	Lead , Cadmium, Mercury , Chrome & Chrome VI	CPSC-CH-E1001-08.1 CPSC-CH-E1003-09.1 CPSC-CH-E1002-08.1,EU packaging & packaging waste directive 94/62/EC, EPA 3050B:1996, EPA 3051:1996, EPA 3052:1996, IEC 62321 Ed1.2008, ISO 17072-2:2019, /

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			ICP-OES
	Chemical	Lead, Cadmium, Antimony, Arsenic, Chromium, Cobalt, Cupper, Mercury, Nickel	BS EN 16711-1: 2015 / ICP-OES/ICP-MS
	Chemical	Chemical Screening for ZDHC- MRSL	In-House Method (BRS200) In-House Method/BRS 300 / GC-MS/HPLC-DAD/MS, ICP-MS/ICP-OES
	Chemical	Polyvinyl chloride (PVC) & Polyurethane (PU)	In- House Method / FTIR

Metal	Chemical	Nickel Release	EN-1811:2011 + A1:2015, EN-12472:2005 +A1:2009 / AAS, ICP-OES ,ICP-MS
	Chemical	Lead & Cadmium Content	US Public law 110-314,CPSC-CH-E1001- 08.1, / AAS , ICP-OES , ICP-MS
	Chemical	Lead, Cadmium, Antimony, Arsenic, Chromium, Cobalt, Cupper, Mercury, Nickel	BS EN 16711-1: 2015 / ICP-OES/ICP-MS

Leather	Chemical	Dimethyl Fumarate	ISO 16189 : 2013, In-House Method / GC-MS
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	Chemical	Formaldehyde Content	ISO 17226-2:2008 GB/T 19941:2005 / UV- Spectrophotometer
	Chemical	Cr VI Content a) With Aging (b) Without Aging	ISO 17075 -1 &2 :2017, EN 420:2003 +A1 2009, CEN/TS/14495:2003, / UV- Spectrophotometer & HPLC DAD
	Chemical	Azo Amines	ISO 17234-1 :2015 , ISO 17234-2:2011, ISO 17234- 1:2015 / GC-MS, HPLC
	Chemical	pH	ISO 4045:2018 , GB/T 2724- 2005 / pH mete
	Chemical	Selected Volatile Organic Compounds VOC's) DMFa	Derived method based on EPA Method 8260C, EPA Method 3585, EPA Method 5000, ISO 16189:2013 / GC-MS
	Leather	Chemical	Determination Of Matter soluble Dichloromethane & Free fatty acid
Chemical		Organotin	Derived method based on BS ISO 17353:2004, DIN EN ISO 17353:2005, ISO 17353:2004, DIN 38407- 13:2001 , ISO 16179:2012

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			/ GC-MS
	Chemical	Determination of Alkylphenol & Alkylphenol ethoxylate	ISO 18218-1:2015 , ISO/FDIS 18254:2016 / HPLC-MS /GC-MS
	Chemical	Ortho Phenyl Phenol (OPP)	In-House Method / GC-MS
	Chemical	SCCP/ MCCP	ISO 18219: 2015 USEPA Method 8082A CADS SCCP v8: 2017 / GC-MS-GC-NCI
Leather	Chemical	TCP, TeCP, PCP (Steam Distillation)	ISO 17070:2015, §64LFGB, B 82.02.08-2001 / GC-MS, GC-ECD
	Chemical	Formaldehyde	ISO 17226-1:2008 / HPLC-DAD
	Physical	Colourfastness to Rubbing	ISO 11640:2012 / Crock meter, Grey scale
	Physical	Colour fastness to perspiration	ISO 11641:2012 / Oven, perspiration tester
	Physical	Colour fastness to water	ISO 11642:2012 / Oven, perspiration tester

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	<i>Physical</i>	<i>Flex resistance</i>	<i>ISO 5402-1: 2017 / Bally leather flexing tester</i>
	<i>Physical</i>	<i>Colour fastness to water spotting</i>	<i>ISO 15700:1998 / Oven</i>
Polymer	Chemical	Lead , Cadmium, Mercury , Chrome & Chrome VI	CPSC-CH-E1001-08.1 CPSC-CH-E1003-09.1 CPSC-CH-E1002-08.1 EU packaging & packaging waste directive 94/62/EC, EPA 3050B:1996, EPA 3051:1996, EPA 3052:1996, IEC 62321 Ed1.2008 / ICP-OES
	Chemical	Lead, Cadmium, Antimony, Arsenic, Chromium, Cobalt, Copper, Mercury, Nickel	BS EN 16711-1: 2015 / ICP-OES/ICP-MS
	Chemical	SCCP/MCCP	ISO 18219: 2015 USEPA Method 8082A CADS SCCP v8: 2017 In-House Method / GC-MS-GC-NCI

Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
	Chemical	Chlorinated organic careers	EN 17137:2018 Analysis by GCMS

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Textile Articles/ Liquid Chemicals or powder material/ Leather	Chemical	Determination of quinoline content in clothing/footwear and chemical formulations	In house method / AFPS GS 2014 LCMS/GCMS
	Physical	Fabric Weight	BS EN 12127: 1998 GSM Cutter/ digital balance
	Physical	Fiber composition of Lyocell, modal	AATCC20-2013, AATCC 20A-2013, ISO 1833:2006 GB/T 2910 : 2009 GB/T 29862: 2013 GB/T 16988: 2013 FZ/T 01057: 2007 FZ/T 01026: 2009 FZ/T 01095: 2002 Chemical / Microscopic Counting
	Chemicals	p-Phenyldiamine / aniline	In house method analysis by GCMS
	Physical	Textiles- Burning behavior- 45° test determination of flame spread rate	GB/T 14644 2014 Auto flame chamber
	Physical + chemical	China National General Safety technical code of textile	GB/T 18401 :2010
	Chemical	Flame Retardants Phosphate/Brominate bases	RSTS-CHEM-221-1 ISO 17881-1:2016 ISO 17881-2:2016 Analysis by GCMS
	Chemical	Chlorophenols Mono chlorophenols, dichlorophenols,	ISO 17070:2015, §64LFGB, B 82.02.08-2001 CEN/TR 14823: 2003 / GC-MS, GC-ECD

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