Laboratory	**SGS India Private Limited-Consumer and Retail Testing Laboratory, Plot No. 226, Udyog Vihar, Phase-1, Gurgaon, Haryana**	
Accreditation Standard	**ISO/IEC 17025: 2005**	
Certificate Number	**TC-6293** ***(in lieu of T-0356 & T-0357)***	**Page 1 of 65**
Validity	**06.10.2017 to 05.10.2019**	**Last Amended on 22.06.2018**

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 & TEXTILE AUXILARIES**			
1.	**Textile & Textile Products**	Color Fastness to Washing	AATCC –61:2013 AS 2001.4.15:2006 (R2016) ISO 105 C08:2010 BS EN ISO 105 C08:2010 ISO 105 C09:2001/Amd 1 2003 BS EN ISO 105 C09:2003 EN ISO 105 C09:2003 BS EN ISO 105 CO6:2010 ISO 105 C06:2010 BS EN ISO 105 C10:2007 ISO 105 C10:2006 DIN EN ISO 105 C10:2007 DIN EN 20105:1993 (CO1-CO5) CAN/CGSB-4.2, Method 19.1 M04:2004(RA 2013) DIN EN ISO 105 C06:2010 DIN EN ISO 105 C09:2007 DIN EN ISO 105 C08:2010	Qualitative (Grade 1-5)
		Color Fastness to Crocking	AATCC –8:2016 AATCC 116:2013 AATCC165:2013 ISO 105 X12:2016 ISO 105 x16:2016 BS EN ISO 105 X16:2016 DIN EN ISO 105 X16: (2016-11)	Qualitative (Grade 1-5)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			AS 2001.4.3:1995(R2016) BS EN ISO 105 X12:2016 DIN EN ISO 105 X12: (2016-11) CAN CGSB-4.2No.22-2004 (RA 2013) GB/T 3920:2008	
		Color Fastness to Perspiration	AATCC –15:2013 ISO 105 E04:2013 BS EN ISO 105 E04:2013 DIN EN ISO 105 E04:2013 JIS L 0848:2004 CAN/CGSB-4.2No.23 M90-2004 (RA 2013) AS2001.4.E04:2005 (R2016) GB/T 3922:2013	Qualitative (Grade 1-5)
		Color Fastness to Light	ISO 105 B02: 2014 BS EN ISO 105 B02:2014 JIS L0843:2006 DIN EN ISO 105 B02:2014 ENISO 105 B02:2014 AS 2001.4.21-2006(R2016) AATCC 16.3:2012 ASTM D 2053:1999 (RA 2010)	Qualitative (Grade 1-5)
		Color Fastness to Water	AATCC 107:2013 AS 2001.4.E01:2001 (R2016) ISO 105 E01:2013 BS EN ISO 105 E01:2013 DIN EN ISO 105 E01:2013 EN ISO 105 E01 :2013 JIS L0846:2004	Qualitative (Grade 1-5)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			CAN/CGSB-4.2No.20-M89 (RA 2013) GB/T 5713:2013	
		Color Fastness to Sea water	AATCC 106:2013 ISO 105 E02:2013 BS EN ISO 105 E02:2013 DIN EN ISO 105 E02:2013 CAN/CGSB-4.2No.21 M90: (RA 2013) AS 2001.4.E02-2001(R2016)	Qualitative (Grade 1-5)
		Color Fastness to Chlorine Bleach	ISO 105 N01:1993 (RA 2015) BS EN 20105 NO1:1995 DIN EN 20105 N01:1995	Qualitative (Grade 1-5)
		Color Fastness to Drycleaning	AATCC – 132:2013 ISO 105 – D01 : 2010 BS EN ISO 105 – D01:2010 EN ISO 105 –D01:2010 DIN EN ISO 105-D01 :2010 CAN/CGSB-4.2 No.29.1 M89 :1997 JIS L 0860:2008 AS 2001.4.16 :1981 (R2016) (Perchloroethylene only) ASTM D 2052:2005	Qualitative (Grade 1-5)
		Color Fastness to Migration on PVC	ISO 105 X 10:1993 BS EN ISO 105 X 10:1996	Qualitative (Grade 1-5)
		Color Fastness to water spotting	AATCC 104:2014 BS EN ISO 105 E07:2010 ISO 105 E07:2010	Qualitative (Grade 1-5)
		Color Fastness to Ozone	AATCC 109:2016 ISO 105 G03:1993 (At low humidities)	Qualitative (Grade 1-5)

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		Color Fastness to Rug Back Staining on Vinyl Tile	AATCC 137:2012	Qualitative (Grade 1-5)
		Color Fastness to Chlorinated Pool Water	AATCC 162:2011 ISO 105 E03: 2010 BS EN ISO 105 E03:2010 DIN EN ISO 105 E03:2010	Qualitative (Grade 1-5)
		Oil Resistance	AATCC 118: 2013	Qualitative Grade 0-8)
		Color Fastness to Mercerization	ISO 105 X04: 1994 BSEN ISO 105 X04: 1997	Qualitative (Grade 1-5)
		Stain Release	AATCC 130:2010	Qualitative (Grade 1-5)
		Color Fastness to Shampooing	BS 1006 UK-TB:1990	Qualitative (Grade 1-5)
		-Fiber Analysis (*QNT. METHODS*) (For Cotton, Polyester, Nylon, Silk, Acrylic, Wool, Viscose, Acetate,Polypropylene, Spandex, Linen, modal,lyocell composition only)	AS 2001.7:2005(R 2016) AATCC-20A: 2014 AATCC 20:2013 ISO 1833:2006 BS 4407: 1988 (RA 2007) In Accordance with regulation (EU) No. 1007/2011 + (EU) No.286/2012 CAN/CGSB4.2 No.14- 2005 JIS L 1030-2:2012 GB/T 2910:2009	1 % to100 %
		Color Fastness to organic solvent	EN ISO 105 X05:1997	Qualitative (Grade 1-5)
		Assessment of potential to Phenolic Yellowing	ISO 105 X18:2007	Qualitative (Grade 1-5)
		Color Fastness to Saliva & Sweat	LFGB § 64 BVL B 82.10.1 – 1985	Qualitative (Grade 1-5)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			DIN V 53160-1:2010 DIN V 53160-2:2010	
		Color Fastness to Saliva	GB/T 18886-2002	
		Color Fastness to Acids	AATCC 6: 2016 ISO 105 E05:2010	Qualitative (Grade 1-5)
		Color Fastness to Perspiration & Light	AATCC 125:2013 ISO 105 B07:2009 BS EN ISO 105 B07:2009	Qualitative (Grade 1-5)
		Color Fastness to Heat Dry Excluding Pressing)	AATCC 117:2013 EN ISO 105 PO1:1995 ISO 105 P01:1993 BS EN ISO 105 P01:1995	Qualitative (Grade 1-5)
		Color Fastness to Heat Hot Pressing	AATCC 133:2013 EN ISO 105 X11:1996 ISO 105 X11:1994 BS EN ISO 105 X11:1996	Qualitative (Grade 1-5)
		Color Fastness to rubbing: Organic Solvent	EN ISO 105 D02:2016 ISO 105 D02: 2016 BS EN ISO 105 D02:2016	Qualitative (Grade 1-5)
		Color Fastness to Dye Transfer in storage (Fabric to Fabric)	AATCC 163:2013	Qualitative (Grade 1-5)
		Calculation of color difference	ISO 105 J03:2009 (RA 2015) BS EN ISO 105 J03:2009 EN ISO 105 J03:2009 AATCC 173:2009	0.0 ΔE cmc to 20 ΔE cmc
		Instrumental Assessment of relative whiteness	AATCC 110:2011 ISO 105 J02:1997 EN ISO 105 J02:1999	1.0 to 200
		Color Fastness to Solvent Spotting:	AATCC 157:2016	Qualitative (Grade 1-5)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Perchloroethyle		
II.	**LEATHER**			
1.	**Leather Products**	Colorfastness to Light	SLF 402:1996 ISO 105 B02: 2014	Qualitative (Grade 1-5)
		Colorfastness to Dry Cleaning	IUF 434: 2009 ISO 11643: 2009 SLF 434: 1997	Qualitative (Grade 1-5)
		Colorfastness to Rubbing (Crockmeter)	AATCC 8: 2016 ASTM D 5053: 2009 SATRA TM 167:1992 ISO 20433:2012	Qualitative (Grade 1-5)
		Colorfastness to Rubbing (Veslic)	IUF 450: 2012 ISO 11640: 2012 SLF 450: 1996 BS 1006 UK LG: 1990 ISO 17700 Method (A) 2004/SATRA TM 173:1995	Qualitative (Grade 1-5)
		Colorfastness to Perspiration	ISO 11641: 2012 IUF 426: 2012 SLF 426: 1996 BS EN ISO 11641:2012 EN ISO 11641:2012 SATRA TM 335:1994	Qualitative (Grade 1-5)
		Colorfastness to Water	ISO 11642: 2012 IUF 421: 2012 SLF 421: 1996 BS EN ISO 11642:2012 EN ISO 11642:2014 SATRA TM 335:1994	Qualitative (Grade 1-5)
		Colorfastness to Mild Washing	ISO 15703: 1998	Qualitative (Grade 1-5)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Colorfastness to Machine Washing	ISO 15702: 1998 IUF 435: 1996 SLF 435: 1996	Qualitative (Grade 1-5)
		Colorfastness to Water Spotting	ISO 15700: 1998 IUF 420: 1998 SLF 420: 1996 BS EN ISO 15700:2011 EN ISO 15700:2011 SATRA TM 185:1995	Qualitative (Grade 1-5)
		Color Fastness to PVC Migration	ISO 15701:2015 IUF 442: 2015 SLF 442: 1997 BS EN ISO 15701: 2015 EN ISO 15701:2015	Qualitative (Grade 1-5)
		Color Fastness to Circular Rubbing	BS 1006 UKLC :1990 ISO 17700 Method (B):2004 SLF 5 (BS 1006 UK-LC) SATRA TM 8:2004	Qualitative (Grade 1-5)
III.	**HAZARDOUS & RESTRICTED CHEMICALS**			
1.	**Textile & Textile Products**	Estimation of pH Value of aqueous extract	AATCC 81-2012; ISO 3071:2005; EN ISO 3071:2006 BS EN ISO 3071:2006; DIN EN ISO 3071:2006; GB/T 7573:2009	R : 2 to 12
		Estimation of Formaldehyde Content (Free and Hydrolysed) Estimation of Release Formaldehyde content	ISO 14184-1:2011; BS EN ISO 14184- 1:2011; DIN EN ISO 14184- 1: 2011-12; JIS L 1041: 2011; JAP LAW 112 § 64 LFGB, BVL B 82.02-1:	10 mg/kg to 2000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			1985; GB/T 2912.1: 2009 AATCC - 112:2014; ISO 14184-2:2011; BS EN ISO 14184- 2:2011; DIN EN ISO 14184- 2: 2011-12;GB/T 2912.2: 2009	
		Qualitative detection of Formaldehyde by spot test	AATCC-94:2012	Present/ Absent
		Estimation of Pentachlorophenol (PCP) 2,3,4,6 – Tetrachlrophenol 2,3,4,5 – Tetrachlrophenol 2,3,5,6 – Tetrachlrophenol 2,4,6 – Trichlorophenol 2,3,4 – Trichlorophenol 2,3,5 – Trichlorophenol 2,3,6 – Trichlorophenol 2,4,5 – Trichlorophenol 3,4,5 – Trichlorophenol 2-Chlorophenol 3-Chlorophenol 4-Chlorophenol 2,3-Dichlorophenol 2,4-Dichlorophenol 2,5-Dichlorophenol 2,6-Dichlorophenol 3,4-Dichlorophenol 3,5-Dichlorophenol	IS 15651 :2006; SO-IN-CRS-TE-006-1 Issue No.01, Dated Jan,2017 [SOP based on § 64 LFGB, BVL B 82.02.8: 2001] SO-IN-CRS-TE-006-5 Issue No.01, Dated Jan,2017 [SOP based on XP G08 015 :2000] SO-IN-CRS-TE-006-2 Issue No.01, Dated Jan,2017 [SOP based on § 64 LFGB, BVL B 82.02.8: 2001 (KOH EXTN.)]	0.05 mg/kg to 200 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Estimation of Orthophenyl Phenol	SO-IN-CRS-TE-006-4 Issue No.01, Dated Jan,2017 [SOP based on § 64 LFGB, BVL B 82.02.8: 2001 (KOH EXTN.)]	0.5 mg/kg to 200 mg/kg
		Estimation of Forbidden Amines Benzidine 3,3'-Dimethoxybenzidine 3,3'-Dimethylbenzidine P-Chloraniline O-Toluidine Toluylene 2,4 Diamine 4-Aminobiphenyl 4-Chloro-o-Toluidine 5 Methyl -o- Anisidine 4,4' Methylenedianiline O-Anisidine 2,4-Dimethyl Aniline 4methoxymphenylenediamine 4,4methylen-Bis(2chloranilin) 4,4'-Oxydianiline 2,4,5-Trimethylaniline O-Aminoazotoluene 2,6-Dimethyl Aniline 3,3'-Dichlorobenzidine 2-Naphthylamine 4,4' Methylene Di O Toluidine 4,4'-Thiodianiline 5-Nitro-O-Toluidine	BS EN 14362-1 : 2003 ; BS EN 14362-2 : 2003; § 64 LFGB, BVL B 82.02.2 :2013 ; EN 14362 -1 : 2012 ; ISO 24362-1 :2014 ; GB/T 17592: 2011 IS 15570: 2005 JIS L 1940-1 :2014 ISO 14362-1 :2017	4 mg/kg to 2000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Aniline p-Phenylenediamine 5-Chloro-2-methylaniline N,N-Dimethylaniline		
		Estimation of Forbidden Amines 4-Amino Azo Benzene	§ 64 LFGB, BVL B 82.02.15 :2013 ; EN 14362 -3 : 2012 ; § 64 LFGB, BVL B 82.02-09: 2008 ; ISO 24362-3 :2014 ; GB/T 23344-2009; ISO 14362-3 :2017 ; JIS L 1940-3 :2014	4 mg/kg to 2000 mg/kg
		Estimation of Organotin Compounds Tributyltin Dibutyltin Monobutyl tin Tetrabutyl tin Triphenyl tin Mono n-octyl tin Di-n-octyl tin Tri-cyclohexyl tin Tri octyl tin Tri-n-propyl tin Di Phenyl tin Methyl tin Di-n-propyl tin Mono Phenyl tin Di Heptyl tin Dimethyltin Trimethyltin	SO-IN-CRS-TE-008-2 Issue No.01, Dated Jan,2017 [SOP based on ISO/TS 16179:2012] SO-IN-CRS-TE-008-1 Issue No.01, Dated Jan,2017 [SOP based on BS ISO 17353:2004; DIN EN ISO 17353 : 2005; DIN 38407-13: 2001]	0.025 mg/kg to 100 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Estimation of Allergenic Disperse Dyes Disperse Blue 3 Disperse Blue 106 Disperse Blue 124 Disperse Blue 35 Disperse Blue 1 Disperse Blue 7 Disperse Blue 26 Disperse Blue 102 Disperse Red 1 Disperse Red 11 Disperse Red 17 Disperse Brown 1 Disperse Orange 1 Disperse Orange 37/76 Disperse Orange 3 Disperse Yellow 9 Disperse Yellow 1 Disperse Yellow 39 Disperse Yellow 49 Disperse Yellow 3 Disperse Yellow 23 Disperse Orange 149 Disperse Blue 291 Disperse Red 15 Disperse Violet 1 Disperse Violet 93 Disperse Yellow 54 Disperse Yellow 64 Acid Red – 14 Basic Red – 46 3-Hydroxy Naphthalamine	SO-IN-CRS-TE-005-1 Issue No.01, Dated Jan,2017 [SOP based on DIN 54231: 2005; § 64 LFGB, BVL B 82.02.-10:2007] SO-IN-CRS-TE-005-2 Issue No.01, Dated Jan,2017 [SOP based on ISO 16373-2:2014 BS EN ISO 16373-2:2014]	5 mg/kg to 1500 mg/kg 0.3 mg/L to 100 mg/L

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Estimation of Carcinogenic Dyes Disperse Blue 1 Disperse Yellow 3 Basic Violet 14 Direct Blue 6 Basic Red 9 Acid Red 26 Direct Red 28 Disperse Orange 11 Direct Black 38 Crystal violet (violet 3) Direct Brown – 95 Solvent yellow 1 Solvent yellow 2 Solvent yellow 3 Basic Blue-26 Acid Violet-49 Solvent Blue-4 4,4-Bis(dimethylamino)-4”-(methylanino)trityl alcohol Phenylenediamine Basic Violet-1	SO-IN-CRS-TE-005-1 Issue No.01, Dated Jan,2017 [SOP based on DIN 54231: 2005; § 64 LFGB, BVL B 82.02.-10: 2007] SO-IN-CRS-TE-005-2 Issue No.01, Dated Jan,2017 [SOP based on ISO 16373-2:2014 BS EN ISO 16373-2:2014] SO-IN-CRS-TE-005-3 Issue No.01, Dated Jan,2017 [SOP based on ISO 16373-3:2014 BS EN ISO 16373-2:2014]	5 mg/kg to 1500 mg/kg 0.3 mg/L to 100 mg/L
		Estimation of Blue Colorants (Navy Blue)	SO-IN-CRS-TE-018-1 Issue No.01, Dated Feb,2017 [SOP based on DIN 54231:2005]	5 mg/kg to 1500 mg/kg 0.3 mg/L to 100 mg/L
		Estimation of Chlorinated Organic Carrier Monochlorobenzene Dichlorobenzenes	SO-IN-CRS-TE-007-1 Issue No.01, Dated Jan,2017 [SOP based on DIN 54232 :2010-08]	0.1 mg/kg to 200 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Trichlorobenzenes Tetrachlorobenzenes Pentachlorobenzenes Hexachlorobenzene Chlorotoluenes Dichlorotoluenes Trichlorotoluenes Tetrachlorotoluenes Pentachlorotoluene		
		Estimation of Phthalates Dibutyl phthalate Benzyl Butyl phthalate Bis- 2-ethyl hexyl phthalate Di-n- octyl phthalate Diiso nonyl phthalate Diiso decyl phthalate Bis (2-methoxyethyl) Phthalate Di n pentyl phthalate Di iso pentyl phthalate n pentyl isopentyl phthalate Diisobutyl phthalate Di-n-Hexyl phthalate Dimethyl Phthalate Diethyl Phthalate Di Cyclohexyl phthalate Di Isoheptyl Phthalate Di Undecyl Phthalate Di –C7-11-(lineary and branched)-alkyl Phthalate(DHNUP)	SO-IN-CRS-TE-009-1 Issue No.01, Dated Jan,2017 [SOP based on ASTM D 3421-75] SO-IN-CRS-TE-009-2 Issue No.01, Dated Jan,2017 [SOP based on EN 14372: 2004 BS EN 14372:2004] SO-IN-CRS-TE-009-3 Issue No.01, Dated Jan,2017 [SOP based on ISO 14389:2014; EN ISO 14389:2014; BS EN ISO 14389:2014] SO-IN-CRS-TE-009-4 Issue No.01, Dated Jan,2017 [SOP based on	30 mg/kg to 500000 mg/kg (0.003 % to 50 %)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		1,2-Benzenedicarboxylic acid, dipentylester, branched and linear(DPP) Dihexyl Phthalate Di-(2-propylheptyl) Phthalate Dipropyl Phthalate Diphenyl Phthalate Diheptyl Phthalate Diisooctyl Phthalate Dibenzyl phthalate Dinonyl Phthalate Didecyl Phthalate Diisohexyl Phthalate	BS EN ISO 18856 – 2005; ISO/TS 16181-2011] SO-IN-CRS-TE-009-5 Issue No.01, Dated Jan,2017 [SOP based on CPSC-CH-C1001-09.3:2010] SO-IN-CRS-TE-009-6 Issue No.01, Dated Jan,2017 [In house Method/Analysis by GCMS] CPSC-CH-C1001-09.4 : 2018	30 mg/kg to 500000 mg/kg (0.003 % to 50%)
		PVC	SO-IN-CRS-TE-010-1 Issue No.01, Dated Jan,2017 [In house method-Beilstein method]	Sample contains PVC / Sample does not contain PVC (>10 %)
		Estimation of Dimethyl Formamide (DMFa)	SO-IN-CRS-TE-015-1 Issue No.01, Dated Jan,2017 [SOP based on ISO/TS 16189:2013]	5 mg/kg to 500 mg/kg
		Estimation of Dimethyl Fumarate (DMFu)	SO-IN-CRS-TE-026-1 Issue No.01, Dated Jan,2017 [SOP based on ISO/TS 16186: 2012]	0.1 mg/kg to 100 mg/kg
		Estimation of TCMTB (Thio cyanato mercapto thio benzathiazole)	SO-IN-CRS-TE-025-1 Issue No.01, Dated Feb,2017 [SOP based on	0.2 mg/kg to 2500 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			ISO 13365-2011 BS EN ISO 13365:2011]	
		Estimation of Polycyclic Aromatic Hydrocarbons Dibenz (a,h) anthracene Benzo (g,h,i) perylene Indeno (1,2,3-cd) pyrene Benzo (a) pyrene Benzo (k) flouranthene Benzo (b) flouranthene Chrysene Benzo (a) Anthracene Pyrene Flouranthene Anthracene Phenanthrene Flourene Acenaphthene Acenaphthylene Naphthtalene Benzo(e)pyrene Benzo(j)fluoranthene 1-Methylnaphthalene 2-Methylnaphthalene Cyclopenta(c,d) pyrene Dibenzo(a,e) pyrene Dibenzo(a,h) pyrene Dibenzo(a,i) pyrene Dibenzo(a,l) pyrene 1-Methylpyrene	SO-IN-CRS-TE-011-5 Issue No.01, Dated Jan,2017 [SOP based on ISO/TS 16190:2013 SO-IN-CRS-TE-011-3 Issue No.01, Dated Jan,2017 [SOP based on ZEK 01.4-08:2011; AfPS GS 2014:01PAK] SO-IN-CRS-TE-011-4 Issue No.01, Dated Jan,2017 [SOP based on EPA 8270D:2014 BS ISO 18287:2006; ISO 18287:2006 DIN ISO 18287:2006]	0.2 mg/kg to 1000 mg/kg
		Estimation of Perfluorooctanoic Acid	SO-IN-CRS-IN-022-2 Issue No.01, Dated	0.01 mg/kg to 1000 mg/kg 1 µg/m² to 1000 µg/m²

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		(PFOA) Perfluorooctane Sulphonate (PFOS) Perfluorooctane Sulphonamide (PFOSA)	Jan,2017 [SOP based on DIN CEN/TS 15968:2010]	
		Estimation of Alkyl Phenols and its Ethoxylates Nonyl Phenol Ethoxylates(NPEO) Octyl Phenol Ethoxylates(OPEO) Nonyl Phenol(NP) Octyl Phenol(OP)	SO-IN-CRS-TE-021-1 Issue No.01, Dated Feb,2017 [SOP based on ISO 18254-1:2016 DIN EN ISO 18254-1:2016 BS EN ISO 18254-1:2016 ISO 18218-1:2015 DIN EN ISO 18218-1:2015 BS EN ISO 18218-1:2015] ISO 18218-2:2015 DIN EN ISO 18218-2:2015 BS EN ISO 18218-2:2015	1 mg/kg to 10000 mg/kg
		Triclosan	SO-IN-CRS-TE-024-1 Issue No.01, Dated Jan,2017 [SOP based on In house Method/ Analysis by GCMS]	1 mg/kg to 100 mg/kg
		Bisphenol A	SO-IN-CTS-TE-032-1 Issue No.01, Dated Feb,2017 [SOP based on In house Method/ Analysis by LCMS]	0.2 mg/kg to 100 mg/kg
		Estimation of Extractable Heavy metals:	SO-IN-CRS-TE-003-1 Issue No.01, Dated Jan,2017	

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Lead Cadmium Chromium Cobalt Antimony Arsenic Mercury Nickel Copper Barium Selenium Tin	[SOP based on ISO 105 E04 : 2013 DIN EN ISO 17294-2 :2005; ISO 17294-2:2016 DIN EN ISO 17294-2:2017-01 ISO 11885:2009; BS EN ISO 11885:2009 DIN 38406-7:2004] SO-IN-CRS-TE-003-20 Issue No.01, Dated Jan,2017 [SOP based on DIN 54020 :1983] SO-IN-CRS-TE-003-25 Issue No.01, Dated Jan,2017 [SOP based on DIN 54233-3: 2010] SO-IN-CRS-TE-003-27 Issue No.01, Dated Jan,2017 [SOP based on EN 16711-2: 2015]	0.05 mg/kg to 1000 mg/kg 0.05 mg/kg to 1000 mg/kg 0.05 mg/kg to 1000 mg/kg 0.05 mg/kg to 1000 mg/kg 1 mg/kg to 1000 mg/kg 0.20 mg/kg to 1000 mg/kg 0.01 mg/kg to 1000 mg/kg 0.05 mg/kg to 1000 mg/kg 1 mg/kg to 1000 mg/kg 1 mg/kg to 1000 mg/kg 0.05 mg/kg to 1000 mg/kg 0.5 mg/kg to 1000 mg/kg
		Estimation of Migration of Certain elements Lead Cadmium Chromium Chromium III Chromium VI Barium Antimony Arsenic	SO-IN-CRS-TE-003-7 Issue No.01, Dated Feb,2017 [SOP based on BS EN 71-3:2013+A1 2014; BS EN 71-3:2003]	0.5 mg/kg to 2000 mg/kg 0.1 mg/kg to 2000 mg/kg 0.005 to 2000 mg/kg 1 to 2000 mg/kg 0.005 to 2000 mg/kg 2 to 2000 mg/kg 1 to 2000 mg/kg 0.5 to 2000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Mercury Selenium Aluminum Boron Cobalt Copper Manganese Nickel Strontium Tin Organotin Zinc	SO-IN-CRS-TE-003-17 Issue No.01, Dated Jan,2017 [SOP based on ASTM F963-2011(Clause 4.3.5.2); ASTM F963-16 - 4.3.5.1(2) ASTM F963-16 - 4.3.5.2 BS 5665 PART-3:1995+A1:2000,AC:2002+ AC:2006; ISO 8124-3:2010/Amd 1:2014]	0.5 to 2000 mg/kg 5 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 0.5 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 0.08 to 2000 mg/kg 0.5 to 2000 mg/kg 2 to 2000 mg/kg
		Estimation of Total Lead content Total Cadmium content	AOAC 974.02, ASTM E 2594:09 SO-IN-CRS-TE-028-1 Issue No.01, Dated Jan,2017 [SOP based on USEPA 3051/3052 ASTM 1613-2012/1645-2007, CPSC-CH-E1002-08-3-2012]	5 to 100000 mg/kg (AAS) 2 to 100000 mg/kg (ICP-MS)
		Estimation of Lead in surface coating Cadmium in surface coating	SO-IN-CRS-TE-028-3 Issue No.01, Dated Jan,2017 [SOP based on 16 CFR 1303/ ASTM 1613-2012/1645-2007 CPSC-CH-E1003-09.1 – 2011] AOAC 974.02	5 mg/kg to 100000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Estimation of Chromium VI	SO-IN-CRS-TE-003-26 Issue No.01, Dated Jan,2017 [SOP based on ISO 17075-1:2017; ISO 105-E04:2013]	0.5 mg/kg to 500 mg/kg
		Estimation of Total Heavy Metals: Arsenic Cadmium Lead Mercury Antimony Chromium Copper Nickel Cobalt Barium Tin Selenium Iron Aluminum Boron Manganese Strontium Zinc Beryllium	SO-IN-CRS-TE-003-6 Issue No.01, Dated Jan,2017 [SOP based on USEPA 3052,6010B,6020 EPA3051 EN 16711-1:2015] SO-IN-CRS-TE-003-21 Issue No.01, Dated Jan,2017 [SOP based on EN 14602/ISO 11885 DIN 38406-E21] SO-IN-CRS-TE-003-19 Issue No.01, Dated Jan,2017 [SOP based on DIN ISO 11466] ASTM E2594:09	 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 1 mg/kg to 2000 mg/kg 1 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 1 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg 2 mg/kg to 2000 mg/kg
2.	**Leather Products**	Estimation of Chromium VI Chromium Vi after ageing	ISO 17075-2007 ISO 17075-1:2017 ISO 17075-2:2017 IULTCS/IUC 18 :2007; BS EN 420:2003+ A1:2009 (Sub Clause Reference 4.3.3);	0.5 mg/kg to 500 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Estimation of Chromium VI Chromium VI after aging	CEN/TS 14495:2003; § 64 LFGB, BVL B 82.02.11: 2008 SO-IN-CTS-TE-003-9 Issue No.01, Dated Feb,2017 [In-house Method-Accelerated ageing procedure]	0.5 mg/kg to 500 mg/kg
		Estimation of Chrome Oxide	IUC 8,(SLC-8:BS 1309:8); ISO 5398-3:2007; IS 582(LC 10 1970)/ Analysis by ICP/AAS	2 mg/kg to 100000 mg/kg
		Estimation of pH Value of aqueous extract	ISO 4045 : 2008; IULTCS/IUC 11: 2008; BS EN ISO 4045:2008; DIN EN ISO 4045:2008-05; ISO: 20344: 2011(Sub Clause Reference 6.9) ; BS EN 420:2003+ A1:2009 (Sub Clause Reference 4.3.2); BS 1309: 1974; IS 582(LC 18) 1970; ASTM D 2810-13	2 to 12
		Estimation of Formaldehyde Content	ISO 17226:1 2008; IULTCS/IUC 19-1:2008; DIN 53315 ; ISO 17226-2 2008/ cor.1.2009; IULTCS/IUC 19-2:2008/	10 mg/kg to 2000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			cor.1.2009;	
		Release Formaldehyde content	GB/T 19941:2005 § 64 LFGB, BVL B 82.02.1-1985 ISO 17226:3 2011; IULTCS/IUC 19-3:2011	
		Estimation of Pentachlorophenol (PCP) 2,3,4,6 – Tetrachlrophenol 2,3,4,5 – Tetrachlrophenol 2,3,5,6 – Tetrachlrophenol 2,4,6 – Trichlorophenol 2,3,4 – Trichlorophenol 2,3,5 – Trichlorophenol 2,3,6 – Trichlorophenol 2,4,5 – Trichlorophenol 3,4,5 – Trichlorophenol 2-Chlorophenol 3-Chlorophenol 4-Chlorophenol 2,3-Dichlorophenol 2,4-Dichlorophenol 2,5-Dichlorophenol 2,6-Dichlorophenol 3,4-Dichlorophenol 3,5-Dichlorophenol	SO-IN-CRS-TE-006-1 Issue No.01, Dated Jan,2017 [SOP based on § 64 LFGB, BVL B 82.02.8: 2001] SO-IN-CRS-TE-006-2 Issue No.01, Dated Jan,2017 [SOP based on § 64 LFGB, BVL B 82.02.8: 2001 (KOH EXTN.); DIN 53313:1993] SO-IN-CRS-TE-006-3 Issue No.01, Dated Jan,2017 [SOP based on ISO 17070:2015] SO-IN-CRS-TE-006-5 Issue No.01, Dated Jan,2017 [SOP based on XP G08 015 :2000] IS 15651 :2006;	0.05 mg/kg to 200 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			CEN/TS 14494:2003	
		Estimation of Orthophenyl Phenol	SO-IN-CRS-TE-006-4 Issue No.01, Dated Jan,2017 [SOP based on § 64 LFGB, BVL B 82.02.8: 2001 (KOH EXTN.); DIN 53313:1993] SO-IN-CRS-TE-006-4 Issue No.01, Dated Jan,2017 [SOP based on ISO 17070:2015] CEN/TS 14494:2003; ISO 13365: 2011	0.5 mg/kg to 200 mg/kg
		Estimation of Forbidden Amines Benzidine 3,3'-Dimethoxybenzidine 3,3'-Dimethylbenzidine P-Chloraniline O-Toluidine Toluylene 2,4 Diamine 4-Aminobiphenyl 4-Chloro-o-Toluidine 5 Methyl -o- Anisidine 4,4' Methylenedianiline O-Anisidine 2,4-Dimethyl Aniline 4methoxymphenylenedi	§ 64 LFGB, BVL B 82.02.3 ; 2014 ISO 17234-1:2015; GB/T 19942: 2005	4 mg/kg to 2000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		amine 4,4methylen-Bis(2chloranilin) 4,4'-Oxydianiline 2,4,5-Trimethylaniline O-Aminoazotoluene 2,6-Dimethyl Aniline 3,3'-Dichlorobenzidine 2-Naphthylamine 4,4' Methylene Di O Toluidine 4,4'-Thiodianiline 5-Nitro-O-Toluidine Aniline p-Phenylenediamine 5-Chloro-2-methylaniline N,N-Dimethylaniline		
		Estimation of 4-Amino Azo Benzene	ISO 17234-2 ; 2011 § 64 LFGB, BVL B 82.02-15: 2013 § 64 LFGB, BVL B 82.02.9: 2014	4 mg/kg to 2000 mg/kg
		Estimation of Organo Tin Compounds Tributyltin Dibutyltin Monobutyl tin Tetrabutyl tin Triphenyl tin Mono n-octyl tin Di-n-octyl tin Tri-cyclohexyl tin	ISO/TS 16179:2012 SO-IN-CRS-TE-008-1 Issue No.01, Dated Jan,2017 [SOP based on BS ISO 17353:2004; DIN EN ISO 17353 : 2005; DIN 38407-13: 2001]	0.025 mg/kg to 100 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Tri octyl tin Tri-n-propyl tin Di Phenyl tin Methyl tin Di-n-propyl tin Mono Phenyl tin Di Heptyl tin Dimethyltin Trimethyltin		
		Estimation of Allergenic Disperse Dyes Disperse Blue 3 Disperse Blue 106 Disperse Blue 124 Disperse Blue 35 Disperse Blue 1 Disperse Blue 7 Disperse Blue 26 Disperse Blue 102 Disperse Red 1 Disperse Red 11 Disperse Red 17 Disperse Brown 1 Disperse Orange 1 Disperse Orange 37/76 Disperse Orange 3 Disperse Yellow 9 Disperse Yellow 1 Disperse Yellow 39 Disperse Yellow 49 Disperse Yellow 3 Disperse Yellow 23 Disperse Orange 149 Disperse Blue 291	SO-IN-CRS-TE-005-1 Issue No.01, Dated Jan,2017 [SOP based on DIN 54231: 2005; § 64 LFGB, BVL B 82.02.-10: 2007] SO-IN-CRS-TE-005-2 Issue No.01, Dated Jan,2017 [SOP based on ISO 16373-2:2014 BS EN ISO 16373-2:2014]	5 mg/kg to 1500 mg/kg 0.3 mg/L to 100 mg/L

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Disperse Red 15 Disperse Violet 1 Disperse Violet 93 Disperse Yellow 54 Disperse Yellow 64 Acid Red – 14 Basic Red – 46 3-Hydroxy Naphthalamine		
		Estimation of Carcinogenic Dyes Disperse Blue 1 Disperse Yellow 3 Basic Violet 14 Direct Blue 6 Basic Red 9 Acid Red 26 Direct Red 28 Disperse Orange 11 Direct Black 38 Crystal violet (violet 3) Direct Brown – 95 Solvent yellow 1 Solvent yellow 2 Solvent yellow 3 Basic Blue-26 Acid Violet-49 Solvent Blue-4 4,4-Bis(dimethylamino)-4”-(methylanino)trityl alcohol Phenylenediamine Basic Violet-1	SO-IN-CRS-TE-005-1 Issue No.01, Dated Jan,2017 [SOP based on DIN 54231: 2005; § 64 LFGB, BVL B 82.02.-10: 2007] SO-IN-CRS-TE-005-2 Issue No.01, Dated Jan,2017 [SOP based on ISO 16373-2:2014 BS EN ISO 16373-2:2014] SO-IN-CRS-TE-005-3 Issue No.01, Dated Jan,2017 [SOP based on ISO 16373-3:2014 BS EN ISO 16373-2:2014]	5 mg/kg to 1500 mg/kg 0.3 mg/L to 100 mg/L
		Blue Colorants (Navy	SO-IN-CRS-TE-018-1	5 mg/kg to 1500 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Blue)	Issue No.01, Dated Feb,2017 [SOP based on DIN 54231:2005]	0.3 mg/L to 100 mg/L
		Estimation of Phthalates Dibutyl phthalate Benzyl Butyl phthalate Bis- 2-ethyl hexyl phthalate Di-n- octyl phthalate Diiso nonyl phthalate Diiso decyl phthalate Bis (2-methoxyethyl) Phthalate Di n pentyl phthalate Di iso pentyl phthalate n pentyl isopentyl phthalate Diisobutyl phthalate Di-n-Hexyl phthalate Dimethyl Phthalate Diethyl Phthalate Di Cyclohexyl phthalate Di Isoheptyl Phthalate Di Undecyl Phthalate Di –C7-11-(lineary and branched)-alkyl Phthalate(DHNUP) 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear(DPP)	SO-IN-CRS-TE-009-1 Issue No.01, Dated Jan,2017 [SOP based on ASTM D 3421-75] SO-IN-CRS-TE-009-2 Issue No.01, Dated Jan,2017 [SOP based on EN 14372: 2004 BS EN 14372:2004] SO-IN-CRS-TE-009-3 Issue No.01, Dated Jan,2017 [SOP based on ISO 14389:2014; EN ISO 14389:2014; BS EN ISO 14389:2014] SO-IN-CRS-TE-009-4 Issue No.01, Dated Jan,2017 [SOP based on BS EN ISO 18856 – 2005; ISO/TS 16181-2011] SO-IN-CRS-TE-009-5 Issue No.01, Dated	30 mg/kg to 500000 mg/kg (0.003 % to 50%)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Dihexyl Phthalate Di-(2-propylheptyl) Phthalate Dipropyl Phthalate Diphenyl Phthalate Diheptyl Phthalate Diisooctyl Phthalate Dibenzyl phthalate Dinonyl Phthalate Didecyl Phthalate Diisohexyl Phthalate	Jan,2017 [SOP based on CPSC-CH-C1001-09.3:2010] SO-IN-CRS-TE-009-6 Issue No.01, Dated Jan,2017 [In house Method/Analysis by GCMS] CPSC-CH-C1001.09.4: 2018	
		Estimation of Dimethyl Formamide (DMFa)	SO-IN-CRS-TE-015-1 Issue No.01, Dated Jan,2017 [SOP based on ISO/TS 16189:2013]	5 mg/kg to 500 mg/kg
		Estimation of Dimethyl Fumarate (DMFu)	SO-IN-CRS-TE-026-1 Issue No.01, Dated Jan,2017 [SOP based on ISO/TS 16186: 2012]	0.1 mg/kg to 100 mg/kg
		Estimation of TCMTB (Thio cyanato mercapto thio benzathiazole)	SO-IN-CRS-TE-025-1 Issue No.01, Dated Feb,2017 [SOP based on ISO 13365-2011 BS EN ISO 13365:2011]	0.2 mg/kg to 2500 mg/kg
		Estimation of Polycyclic Aromatic Hydrocarbons Dibenz (a,h) anthracene Benzo (g,h,i) perylene Indeno (1,2,3-cd)	SO-IN-CRS-TE-011-5 Issue No.01, Dated Jan,2017 [SOP based on ISO/TS 16190:2013]	0.2 mg/kg to 1000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		pyrene Benzo (a) pyrene Benzo (k) flouranthene Benzo (b) flouranthene Chrysene Benzo (a) Anthracene Pyrene Flouranthene Anthracene Phenanthrene Flourene Acenaphthene Acenaphthylene Naphthtalene Benzo(e)pyrene Benzo(j)fluoranthene 1-Methylnaphthalene 2-Methylnaphthalene Cyclopenta(c,d) pyrene Dibenzo(a,e) pyrene Dibenzo(a,h) pyrene Dibenzo(a,i) pyrene Dibenzo(a,l) pyrene 1-Methylpyrene	SO-IN-CRS-TE-011-3 Issue No.01, Dated Jan,2017 [SOP based on ZEK 01.4-08:2011; AfPS GS 2014:01PAK] SO-IN-CRS-TE-011-4 Issue No.01, Dated Jan,2017 [SOP based on EPA 8270D:2014 BS ISO 18287:2006; ISO 18287:2006 DIN ISO 18287:2006]	
		Estimation of Perfluorooctanoic Acid (PFOA) Perfluorooctane Sulphonate (PFOS) Perfluorooctane Sulphonamide (PFOSA)	SO-IN-CRS-IN-022-2 Issue No.01, Dated Jan,2017 [SOP based on DIN CEN/TS 15968:2010]	0.01 mg/kg to 1000 mg/kg 1 µg/m² to 1000 µg/m²
		Estimation of Alkyl Phenols and its	SO-IN-CRS-TE-021-1 Issue No.01, Dated	1 mg/kg to 10000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Ethoxylates Nonyl Phenol Ethoxylates(NPEO) Octyl Phenol Ethoxylates(OPEO) Nonyl Phenol(NP) Octyl Phenol(OP)	Feb,2017 [SOP based on ISO 18254-1:2016 DIN EN ISO 18254-1:2016 BS EN ISO 18254-1:2016 ISO 18218-1:2015 DIN EN ISO 18218-1:2015 BS EN ISO 18218-1:2015] ISO 18218-2:2015 DIN EN ISO 18218-2:2015 BS EN ISO 18218-2:2015	
		Bisphenol A	SO-IN-CTS-TE-032-1 Issue No.01, Dated Feb,2017 [SOP based on In house Method/ Analysis by LCMS]	0.2 mg/kg to 100 mg/kg
		Estimation of Extractable Heavy metals: Lead Cadmium Chromium Cobalt Antimony Arsenic Mercury Nickel Copper Barium Selenium Tin	SO-IN-CRS-TE-003-1 Issue No.01, Dated Jan,2017 [SOP based on ISO 105 E04 : 2013 DIN EN ISO 17294-2 :2005; ISO 17294-2:2016 DIN EN ISO 17294-2:2017-01 ISO 11885:2009; BS EN ISO 11885:2009 DIN 38406-8:2004-10] SO-IN-CRS-TE-003-13 Issue No.01, Dated Jan,2017 [SOP based on	 0.05 to 1000 mg/kg 0.05 to 1000 mg/kg 0.05 to 1000 mg/kg 0.05 to 1000 mg/kg 1 to 1000 mg/kg 0.20 to 1000 mg/kg 0.01 to 1000 mg/kg 0.05 to 1000 mg/kg 1 to 1000 mg/kg 1 to 1000 mg/kg 0.05 to 1000 mg/kg 0.5 to 1000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			ISO17072-1; 2011 DIN EN ISO 17072-1:2011 BS EN ISO 17072-1:2011] SO-IN-CRS-TE-003-20 Issue No.01, Dated Jan,2017 [SOP based on DIN 54020 :1983] SO-IN-CRS-TE-003-25 Issue No.01, Dated Jan,2017 [SOP based on DIN 54233-3: 2010] SO-IN-CRS-TE-003-27 Issue No.01, Dated Jan,2017 [SOP based on EN 16711-2: 2015]	
		Estimation of Migration of Certain elements: Lead Cadmium Chromium Chromium III Chromium VI Barium Antimony Arsenic Mercury Selenium Aluminum Boron Cobalt Copper	SO-IN-CRS-TE-003-7 Issue No.01, Dated Feb,2017 [SOP based on BS EN 71-3:2013+A1 2014; BS EN 71-3:2003] SO-IN-CRS-TE-003-17 Issue No.01, Dated Jan,2017 [SOP based on ASTM F963-2011(Clause 4.3.5.2); ASTM F963-16 - 4.3.5.1(2) ASTM F963-16 - 4.3.5.2 BS 5665 PART-3:1995+A1:2000,AC:2002+	 0.5 to 2000 mg/kg 0.1 to 2000 mg/kg 0.005 to 2000 mg/kg 1 to 2000 mg/kg 0.005 to 2000 mg/kg 2 to 2000 mg/kg 1 to 2000 mg/kg 0.5 to 2000 mg/kg 0.5 to 2000 mg/kg 5 to 2000 mg/kg 3 to 2000 mg/kg 2 to 2000 mg/kg 0.5 to 2000 mg/kg 2 to 2000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Manganese Nickel Strontium Tin Organotin Zinc	AC:2006; ISO 8124-3:2010/Amd 1:2014]	2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 0.08 to 2000 mg/kg 0.5 to 2000 mg/kg 2 to 2000 mg/kg
		Estimation of Total Lead content Total Cadmium content	AOAC 974.02, ASTM E 2594:09 SO-IN-CRS-TE-028-1 Issue No.01, Dated Jan,2017 [SOP based on USEPA 3051/3052 ASTM 1613-2012/1645-2007; CPSC-CH-E1002-08-3-2012]	5 to 100000 mg/kg (AAS) 2 to 100000 mg/kg (ICP-MS)
		Estimation of Lead in surface coating Cadmium in surface coating	SO-IN-CRS-TE-028-3 Issue No.01, Dated Jan,2017 [SOP based on 16 CFR 1303/ ASTM 1613-2012/1645-2007 CPSC-CH-E1003-09.1 – 2011] AOAC 974.02	5 to 100000 mg/kg
		Estimation of Total Heavy Metals: Arsenic Cadmium Lead Mercury Antimony	SO-IN-CRS-TE-003-6 Issue No.01, Dated Jan,2017 [SOP based on USEPA 3052,6010B,6020 EPA3051 EN 16711-1:2015]	2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 1 to 2000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Chromium		1 to 2000 mg/kg
		Copper	SO-IN-CRS-TE-003-21	2 to 2000 mg/kg
		Nickel	Issue No.01, Dated	2 to 2000 mg/kg
		Cobalt	Jan,2017	1 to 2000 mg/kg
		Barium	[SOP based on	2 to 2000 mg/kg
		Tin	EN 14602/ISO 11885	2 to 2000 mg/kg
		Selenium	DIN 38406-E21]	2 to 2000 mg/kg
		Iron		2 to 2000 mg/kg
		Aluminum	SO-IN-CRS-TE-003-14	2 to 2000 mg/kg
		Boron	Issue No.01, Dated	2 to 2000 mg/kg
		Manganese	Jan,2017	2 to 2000 mg/kg
		Strontium	[SOP based on	2 to 2000 mg/kg
		Zinc	ISO 17072-2;	2 to 2000 mg/kg
		Beryllium	EN ISO 17072-2:2011;	2 to 2000 mg/kg
			BS EN ISO 17072-2:2011;	
			DIN EN ISO 17072-2:2011]	
			SO-IN-CRS-TE-003-19	
			Issue No.01, Dated	
			Jan,2017 [SOP based on	
			DIN ISO 11466]	
			ASTM E2594:09	
3.	**Others:**	Estimation of Migration	SO-IN-CRS-TE-003-7	
	Metal	of Certain elements	Issue No.01, Dated	
	Accessories/	Lead	Feb,2017	0.5 to 2000 mg/kg
	Plastics /	Cadmium	[SOP based on	0.1 to 2000 mg/kg
	Polymeric	Chromium	BS EN 71-3:2013+A1 2014;	0.005 to 2000 mg/kg
	Compounds	Chromium III	BS EN 71-3:2003]	1 to 2000 mg/kg
	Dye/ Colorants	Chromium VI		0.005 to 2000 mg/kg
	Glass & Ceramic	Barium	SO-IN-CRS-TE-003-17	2 to 2000 mg/kg
		Antimony	Issue No.01, Dated	1 to 2000 mg/kg
		Arsenic	Jan,2017	0.5 to 2000 mg/kg
		Mercury	[SOP based on	0.5 to 2000 mg/kg
		Selenium	ASTM F963-2011(Clause	5 to 2000 mg/kg
		Aluminum	4.3.5.2);	3 to 2000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Boron Cobalt Copper Manganese Nickel Strontium Tin Organotin Zinc	ASTM F963-16 - 4.3.5.1(2) ASTM F963-16 - 4.3.5.2 BS 5665 PART-3:1995+A1:2000,AC:2002+ AC:2006; ISO 8124-3:2010/Amd 1:2014]	2 to 2000 mg/kg 0.5 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 0.08 to 2000 mg/kg 0.5 to 2000 mg/kg 2 to 2000 mg/kg
4.	**Metal Accessories (Textile & Garments)**	Estimation of Release of Nickel [From products (Metallic Parts of Garments, Leathers and Rubbers) Intended to come Into Direct and prolonged Contact with the skin]	BS EN 1811:2011+AC:2012 BS EN 1811:2011+A1:2015 DIN EN 1811:2012-10 DIN EN 1811(2015-10)	0.1 µg/ cm^2/week to 50 µg/ cm^2/week
		Estimation of Release of Nickel [Simulation of Wear and corrosion for the detection of Nickel release from coated items]	EN 12472: 2005 + A1: 2009 BS EN 12472: 2005+ A1: 2009] EN 12472:1998	0.1 to 50 µg/ cm^2/week
		Nickel spot test	FD CR 12471:2002 PD CR 12471:2002	Present/Absent
		Estimation of Cadmium in Metal Jewelry	CPSC-CH-E1004-11: 2011	2 mg/kg to 20000 mg/kg
		Estimation of : Total Lead content Total Cadmium content	ASTM 1613-2012/1645-2007, AOAC 974.02 SO-IN-CRS-TE-028-2	 5 to 100000 mg/kg (AAS) 2 to 100000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			Issue No.01, Dated Jan,2017 [SOP based on CPSC-CH-E1001-08.3:2012]	(ICP-MS)
5.	**Metal Accessories/ Plastics / Polymeric compounds**	Estimation of Total Heavy Metals: Arsenic Cadmium Lead Mercury Antimony Chromium Copper Nickel Cobalt Barium Tin Selenium Iron Aluminum Boron Manganese Strontium Zinc Beryllium	SO-IN-CRS-TE-003-6 Issue No.01, Dated Jan,2017 [SOP based on USEPA 3052,6010B,6020 EPA3051 EN 16711-1:2015] SO-IN-CRS-TE-003-21 Issue No.01, Dated Jan,2017 [SOP based on EN 14602/ISO 11885 DIN 38406-E21] SO-IN-CRS-TE-003-12 Issue No.01, Dated Jan,2017 [SOP based on US EPA 3050B] SO-IN-CRS-TE-003-19 Issue No.01, Dated Jan,2017 [SOP based on DIN ISO 11466] ASTM E2594:09	 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 1 to 2000 mg/kg 1 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 1 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg 2 to 2000 mg/kg
6.	**Plastics / Polymeric Compounds Dye/ Colorant**	Estimation of Total Lead content Total Cadmium content	AOAC 974.02, ASTM E 2594:09 SO-IN-CRS-TE-028-1 Issue No.01, Dated	5 to 100000 mg/kg (AAS) 2 to 100000 mg/kg (ICP-MS)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Glass & Ceramic		Jan,2017 [SOP based on USEPA 3051/3052 ASTM 1613-2012/1645-2007, CPSC-CH-E1002-08-3-2012]	
7.	**Plastics / Polymeric Compounds**	Estimation of Cadmium by wet decomposition method	EN 1122:2001 BS EN 1122:2001 Analysis by ICP-MS/AAS	5 mg/kg to 10000 mg/kg (AAS) 1 to 10000 mg/kg (ICP-MS)
8.	**Metal Accessories/ Plastics / Polymeric compounds/ Glass & Ceramic**	Estimation of Lead in surface coating Cadmium in surface coating	SO-IN-CRS-TE-028-3 Issue No.01, Dated Jan,2017 [SOP based on 16 CFR 1303/ ASTM 1613-2012/1645-2007 CPSC-CH-E1003-09.1 – 2011] AOAC 974.02	5 mg/kg to 100000 mg/kg
9.	**Plastics / Polymeric compounds Dye/ Colorant**	Estimation of Phthalates Dibutyl phthalate Benzyl Butyl phthalate Bis- 2-ethyl hexyl phthalate Di-n- octyl phthalate Diiso nonyl phthalate Diiso decyl phthalate Bis (2-methoxyethyl) Phthalate Di n pentyl phthalate Di iso pentyl phthalate	SO-IN-CRS-TE-009-1 Issue No.01, Dated Jan,2017 [SOP based on ASTM D 3421-75] SO-IN-CRS-TE-009-2 Issue No.01, Dated Jan,2017 [SOP based on EN 14372: 2004 BS EN 14372:2004]	30 mg/kg to 500000 mg/kg (0.003 % to 50%)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		n pentyl isopentyl phthalate Diisobutyl phthalate Di-n-Hexyl phthalate Dimethyl Phthalate Diethyl Phthalate Di Cyclohexyl phthalate Di Isoheptyl Phthalate Di Undecyl Phthalate Di –C7-11-(lineary and branched)-alkyl Phthalate(DHNUP) 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear(DPP) Dihexyl Phthalate Di-(2-propylheptyl) Phthalate Dipropyl Phthalate Diphenyl Phthalate Diheptyl Phthalate Diisooctyl Phthalate Dibenzyl phthalate Dinonyl Phthalate Didecyl Phthalate Diisohexyl Phthalate	SO-IN-CRS-TE-009-3 Issue No.01, Dated Jan,2017 [SOP based on ISO 14389:2014; EN ISO 14389:2014; BS EN ISO 14389:2014] SO-IN-CRS-TE-009-4 Issue No.01, Dated Jan,2017 [SOP based on BS EN ISO 18856 – 2005; ISO/TS 16181-2011] SO-IN-CRS-TE-009-5 Issue No.01, Dated Jan,2017 [SOP based on CPSC-CH-C1001-09.3:2010] SO-IN-CRS-TE-009-6 Issue No.01, Dated Jan,2017 [In house Method/Analysis by GCMS] CPSC-CH-C1001.09.4: 2018	
10.	**Plastics / Polymeric**	Estimation of Polycyclic Aromatic Hydrocarbons	SO-IN-CRS-TE-011-5 Issue No.01, Dated	0.2 mg/kg to 1000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Compounds	Dibenz (a,h) anthracene Benzo (g,h,i) perylene Indeno (1,2,3-cd) pyrene Benzo (a) pyrene Benzo (k) flouranthene Benzo (b) flouranthene Chrysene Benzo (a) Anthracene Pyrene Flouranthene Anthracene Phenanthrene Flourene Acenaphthene Acenaphthylene Naphthtalene Benzo(e)pyrene Benzo(j)fluoranthene 1-Methylnaphthalene 2-Methylnaphthalene Cyclopenta(c,d) pyrene Dibenzo(a,e) pyrene Dibenzo(a,h) pyrene Dibenzo(a,i) pyrene Dibenzo(a,l) pyrene 1-Methylpyrene	Jan,2017 [SOP based on ISO/TS 16190:2013 SO-IN-CRS-TE-011-3 Issue No.01, Dated Jan,2017 [SOP based on ZEK 01.4-08:2011; AfPS GS 2014:01PAK] SO-IN-CRS-TE-011-4 Issue No.01, Dated Jan,2017 [SOP based on EPA 8270D:2014 BS ISO 18287:2006; ISO 18287:2006 DIN ISO 18287:2006]	
		Estimation of Perfluorooctanoic Acid (PFOA) Perfluorooctane Sulphonate (PFOS)	SO-IN-CRS-IN-022-2 Issue No.01, Dated Jan,2017 [SOP based on DIN CEN/TS 15968:2010]	0.01 mg/kg to 1000 mg/kg 1 µg/m² to 1000 µg/m²

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Perfluorooctane Sulphonamide (PFOSA)		
		Estimation of BHT	ASTM D4275:2002	1 to 100 mg/kg
		PVC	SO-IN-CRS-TE-010-1 Issue No.01, Dated Jan,2017 [In house methodBeilstein method]	Sample contains PVC / Sample doesnot contain PVC (>10 %)
		Estimation of Organo Tin Compounds Tributyltin Dibutyltin Monobutyl tin Tetrabutyl tin Triphenyl tin Mono n-octyl tin Di-n-octyl tin Tri-cyclohexyl tin Tri octyl tin Tri-n-propyl tin Di Phenyl tin Methyl tin Di-n-propyl tin Mono Phenyl tin Di Heptyl tin Dimethyltin Trimethyltin	ISO/TS 16179:2012 SO-IN-CRS-TE-008-1 Issue No.01, Dated Jan,2017 [SOP based on BS ISO 17353:2004; DIN EN ISO 17353 : 2005; DIN 38407-13: 2001]	0.025 mg/kg to 100 mg/kg
		Bisphenol A	SO-IN-CTS-TE-32 Issue No.01, Dated Feb,2017 [SOP based on In house Method/ Analysis by LCMS]	0.2 mg/kg to 100 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
11.	**Dye/Colorants**	Estimation of Forbidden Amines Benzidine 3,3'-Dimethoxybenzidine 3,3'-Dimethylbenzidine P-Chloraniline O-Toluidine Toluylene 2,4 Diamine 4-Aminobiphenyl 4-Chloro-o-Toluidine 5 Methyl -o- Anisidine 4,4' Methylenedianiline O-Anisidine 2,4-Dimethyl Aniline 4methoxymphenylenediamine 4,4methylen-Bis(2chloranilin) 4,4'-Oxydianiline 2,4,5-Trimethylaniline O-Aminoazotoluene 2,6-Dimethyl Aniline 3,3'-Dichlorobenzidine 2-Naphthylamine 4,4' Methylene Di O Toluidine 4,4'-Thiodianiline 5-Nitro-O-Toluidine Aniline p-Phenylenediamine 5-Chloro-2-methylaniline N,N-Dimethylaniline	§ 64 LFGB, BVL B 82.02.2 :2013 EN 14362 -1 : 2012 ISO 24362-1 :2014 ISO 14362-1 :2017	10 mg/kg to 2000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Estimation of 4-Amino Azo Benzene	§ 64 LFGB, BVL B 82.02.15 :2013 EN 14362 -3 : 2012 ISO 14362-3 :2017 ISO 24362-3 :2014	10 mg/kg to 2000 mg/kg
12.	**Toys and Sports Equipment**	Estimation of Migration of Certain elements Antimony (Sb)) Arsenic (As) Barium (Ba) Cadmium (Cd) Chromium (Cr) Lead (Pb) Mercury (Hg) Selenium (Se)	IS 9873 (Part 3):2017 ISO 8124-3:2010/Amd-1:2014 IS 9873(Part-7):2017 ISO 8124-7:2015	 Sb-1 to 2000 mg/kg As-1 to 2000 mg/kg Ba-0.05 to 2000 mg/kg Cd-0.1 to 2000 mg/kg Cr-1 to 2000 mg/kg Pb-0.5 to 2000 mg/kg Hg-0.5 to 2000 mg/kg Se-5 to 2000mg/kg
		Estimation of Total Heavy Metals Antimony (Sb)) Arsenic (As) Barium (Ba) Cadmium (Cd) Chromium (Cr) Lead (Pb) Mercury (Hg) Selenium (Se)	IS 9873 (Part 5):2017 ISO 8124-5:2015	 Sb-1 to 2000 mg/kg As-2 to 2000 mg/kg Ba-2 to 2000 mg/kg Cd-2 to 2000 mg/kg Cr-1 to 2000 mg/kg Pb-2 to 2000 mg/kg Hg-2 to 2000 mg/kg Se-2 to 2000 mg/kg
		Estimation of Phthalates Di-n-butyl phthalate(DBP) Diisobutyl phthalate(DIBP) Benzyl butyl phthalate(BBP)	IS 9873 (part-6):2017 ISO 8124-6:2014 IS 9873 (part 9):2017 CPSC-CH-C1001-09.4:2018	 DBP-10 to 5000 mg/kg DIBP-10 to 5000 mg/kg BBP-10 to 5000 mg/kg DEHP-10 to 5000 mg/kg DPENP-10 to 5000 mg/kg DHEXP-10 to 5000 mg/kg DNOP- 10 to 5000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Bis-(2-ethylhexyl) phthalate (DEHP) Di-n-pentyl phthalate(DPENP) Di-n-hexyl phthalate(DHEXP) Di-n-octyl phthalate(DNOP) Dicyclohexyl phthalate(DCHP) Di-iso-nonyl phthalate(DINP) Di-iso-decyl phthalate(DIDP)		DCHP-10 to 5000 mg/kg DINP- 50 to 5000 mg/kg DIDP- 50 to 5000 mg/kg
		pH Value	IS 9873 -7: 2017 ISO 787-9: 1995	2 -12 pH
		Hexachlorobenzene Benzo [α] pyrene (B[α]P)	IS 9873 (Part 7):2017 ISO 8124-7:2015	0.05 to 50 mg/kg
		Primary Aromatic amines Benzidine 3,3'-Dimethoxybenzidine 3,3'-Dimethylbenzidine P-Chloraniline O-Toluidine Toluene 2,4 Diamine 4-Aminobiphenyl 4-Chloro-o-Toluidine 5 Methyl -o- Anisidine 4,4' Methylenedianiline O-Anisidine 4-	IS 9873 (Part 7):2017 ISO 8124-7:2015	0.5 mg/kg to 100 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		methoxymphenylenediamine 4,4methylen-Bis(2chloranilin) 4,4'-Oxydianiline 2,4,5-Trimethylaniline O-Aminoazotoluene 3,3'-Dichlorobenzidine 2-Naphthylamine 4,4' Methylene Di O Toluidine 4,4'-Thiodianiline 5-Nitro-O-Toluidine 4-Amino Azo Benzene		
13.	**Consumer Electronics**	Flame Retardants Mono BB Di BB Tri BB Tetra BB Penta BB Hexa BB Hepta BB Octa BB Nona BB Deca BB Mono BDE Di BDE Tri BDE Tetra BDE Penta BDE Hexa BDE Hepta BDE Octa BDE Nona BDE	IEC 62321-6:2015 Annex A (GC-MS)	50 to 10000 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Deca BDE		
		Heavy Metals Lead (Pb) Cadmium (Cd) Mercury (Hg) Chromium (Cr) Hexavalent chromium (Cr-VI)	IEC 62321-5:2013 IEC 62321-4:2013 +A1:2017 IEC 62321-7-1:2015 IEC 62321-7-2:2017	Pb-5 to 2000 mg/kg Cd-5 to 2000 mg/kg Hg-5 to 2000 mg/kg Cr- 5 to 2000 mg/kg Cr-VI- 8 to 2000 mg/kg (polymer) Cr-VI- 0.10 to 0.13 µg/cm² (Metal)
		Estimation of Phthalates Di-isobutyl phthalate(DIBP) Di-n-butyl phthalate(DBP) Benzyl butyl phthalate(BBP) Bis-(2-ethylhexyl) phthalate (DEHP)	IEC 62321-8	50 to 10000 mg/kg
		HBCCD (Hexa Bromo Cyclodecane)	SO-IN-CRS-TE-137 Issue No.01, Dated Jan. 2018 SOP based on: [US EPA 3540 US EPA 3541 IEC 62321-1]	5 to 10000 mg/kg
14.	**Food Contact Materials**	Visible Colour migration	Council; of Europe Resolution AP (89) 1; IS 9833:2014/ IS9845:2010 GB 4806.7-2016	Qualitative (Positive/Negative)
		Leachable Lead Leachable Cadmium	ISO 6486-Part-1:1999; ISO 6486-Part-2:1999	Pb:0.1 to 5.0 mg/kg Cd:0.02 to 5.0 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			ISO 8391 Part I & II:1986 BS 6748+A1:2011 ASTM C 738:2016; AOAC 973:82:1995; AOAC 984.19:(2000); AOAC 973.32:2005 EN 1388-1:1996 & EN 1388-2:1996 DIN EN 1388-2:1996-(RA-2011); BS EN 1388-2:1996 ASTM 927-80-2014 IS 9806:2001 GB 4806.7-2016	Pb: 0.01 to 5 mg/dm² Cd: 0.01 to 5 mg/dm²
		Specific migration of Primary Aromatic Amines by UV-VIS	German BFR XXI: Commodities Based on natural & synthetic Rubber	1µg/kg to 50 µg/kg
		Specific migration of Formaldehyde by UV-VIS	EN 13130 Part-1: 2004 EN 13130 Part-23:2005	0.1mg/kg to 50 mg/kg
		Specific migration of phthalates Di-n-butyl phthalate(DBP) Benzyl butyl phthalate(BBP) Bis-(2-ethylhexyl) phthalate (DEHP) Di-n-octyl phthalate(DNOP) Di-iso-nonyl phthalate(DINP) Di-iso-decyl	BS EN 13130-1:2004 (EU No. 10/2011)	DBP-0.05 to 5 mg/kg BBP-0.05 to 5 mg/kg DEHP-0.05 to 5 mg/kg DNOP-0.2 to 5 mg/kg DINP-0.2 to 5 mg/kg DIDP-0.2 to 5 mg/kg DAP-0.01 to 5 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		phthalate(DIDP) Diallyl phthalate(DAP)		
		Migration (Overall & Global)	AS 2070:1999, Cl 4.1.1 (b); EN 1186-1:2002; EN 1186-3:2002 (Total immersion method: Method A); EN 1186-5:2002 (Cell method: type B); EN 1186-9:2002 (Article filling method); EN 1186-4:2002(Substitute tests) EN 1186-13:2002 (At high temperature) EN1186-2:2002 (Total immersion method); EN 1186-4:2002 (Cell Method: Type B); EN 1186-10:2002 (Modified Extraction of olive oil); EN 1186-8:2002 (Article filling method); IS 9845:1998(R 2010) GB 4806.7-2016 Migration test as per US FDA 21 CFR US FDA 21 CFR 175.300 US FDA 21 CFR 176.170 US FDA 21 CFR 177.1520 US FDA 21 CFR 177.1630 US FDA 21 CFR 177.2600 US FDA 21 CFR 177.1210	2 mg/dm² to 50 mg/dm² (7.75×10^{-4} mg/mm² to 4.65×10^{-2} mg/mm²) 0.5mg/inch² to 30 mg/inch²

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			US FDA 21 CFR 177.2460	
		Migration for Metals and Metalloids Antimony (Sb) Arsenic (As) Barium (Ba) Cadmium (Cd) Chromium (Cr) Lead (Pb) Mercury (Hg) Selenium (Se)	Council of Europe Resolution AP (89)1) Clause II of Appendix	2 mg/kg to 500 mg/kg
		Extractable heavy metals Lead (Pb) Copper(Cu) Nickel (Ni) Cobalt (Co) Cadmium (Cd) Chromium (Cr) Antimony(Sb)	SO-IN-CRS-TE-124 Issue No.01, Dated Jan. 2018 SOP Based on: German Food, Articles of Daily Use and Feed Code of September1, 2005 (LFGB), Section 30.	0.001 mg/dm² to 5.0 mg/dm²
		Specific migration of heavy metals Barium (Ba) Cobalt (Co) Copper (Cu) Iron (Fe) Lithium (Li) Manganese (Mn) Aluminum (Al) Zinc (Zn)	EC 10/2011 EN 13130-1:2004	0.01 mg/kg to 50 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Specific migration of 21 heavy Metal Aluminum (Al) Antimony (Sb) Arsenic (As) Barium (Ba) Beryllium (Be) Cadmium (Cd) Chromium (Cr) Cobalt (Co) Copper (Cu) Lead (Pb) Lithium (Li) Iron (Fe) Manganese (Mn) Mercury (Hg) Molybdenum (Mo) Nickel (Ni) Silver (Ag) Thallium (Tl) Tin (Sn) Vanadium (V) Zinc (Zn)	SO-IN-CRS-TE-110 Issue No.01, Dated Oct. 2017 SOP based on: [EN 13130 Part-1:2004 Resolution CM/Res(2013)9 on metal & alloys used in food contact materials and articles]	 (Al)-0.005 to 5mg/kg (Sb) 0.005 to 5mg/kg (As) 0.005 to 5mg/kg (Ba) 0.005 to 5mg/kg (Be) 0.005 to 5mg/kg (Cd) 0.005 to 5mg/kg (Cr) 0.005 to 5mg/kg (Co) 0.005 to 5mg/kg (Cu) 0.005 to 5mg/kg (Pb) 0.005 to 5mg/kg (Li) 0.005 to 5mg/kg (Fe) 0.005 to 5mg/kg (Mn) 0.005 to 5mg/kg (Hg) 0.005 to 5mg/kg (Mo) 0.005 to 5mg/kg (Ni) 0.005 to 5mg/kg (Ag) 0.005 to 5mg/kg (Tl)-0.0001 to 5mg/kg (Sn)-0.005 to 5mg/kg (V) 0.005 to 5mg/kg (Zn) 0.005 to 5mg/kg

MECHANICAL TESTING

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	**TEXTILE MATERIALS**			
1.	**Yarn**	Linear Density	ISO 7211-5:1984	5 to 590 tex (1to 100Ne) (10 to 200 Denier)
		Single End Breaking Force Elongation at break	ISO 2062:2009 Method B	2.5 N to100N (0.25 kgf-10 kgf) 6 % to 10 %
2.	**Fabric**	Fabric Width	ASTM D3774:96 (RA 2016) CAN CGSB-4.2 No.4.1:2008- AS 2001.2.12-1987 JIS L 1096:2010 ISO 22198:2006	0.5 m to 2 m
3.	**Fabric & Garment**	Fabric Weight (Mass Per Unit Area)	ASTM D3776/ D3776M-09a (2013) Option C ISO 3801:1977 Method 5 BS 2471:2005 DIN EN 12127: (1997-12) BS EN 12127 : 1998 CAN/CGSB-4.2 No.5.1:M90(RA 2013) JIS L 1096(Woven):2010 AS 2001.2.13-1987	20 gsm to 500 gsm

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			(RA 2016)	
		Woven Fabric (Ends and Picks)	ASTM D 3775:2012 CAN CGSB-4.2 No. 6:2013 ISO 7211-2:1984 BS EN 1049-2:1994 JIS L 1096 :2010 DIN EN 1049-2 : (1994-02) AS 2001.2.5-1991(R2016)	(0.08 to 9.84 ends & picks/ mm) 2-250 ends & picks/ inch
		Knitted Fabric (Courses and Wales)	NF EN 14971: (2006-04) ASTM D 3887:96 (2008) BS 5441:1988 CAN/CGSB-4.2No.7-M88:2001 AS 2001.2.6-2001(R2016)	(0.08 to 9.84 Wales & Course/ mm) 2- 250 Wales & Course per inch
		Bow & Skew (As Received)	ASTM D-3882:2008 (2016) BS 2819:1990+a2(2016)	1 cm to 15cm
		Spirality after Laundering	AATCC –179:2012 ISO 16322-1:2005 ISO 16322-2:2005+Cor1 2007 ISO 16322-3:2005	Upto 20%
		Flammability Apparels (45°AFC)	ASTM D1230-10 (RA 2016)e1 16 CFR 1610 CAN/CGSB-4.2No27.5 : 201X(2016) CAN/CGSB4.2No.27.6: : 2015 16 CFR 1630 16 CFR 1631	1s to 25 s
		Carpets and Rugs Small Carpet and Rugs	BS 6307:1982 ISO 6925:1982 ASTM D 2859-:2016	0.1 inch to 4.0 inch 25.4 mm to 101.6 mm

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			BS 4790:1987 BS 5287:1988	
		Floor Coverings	BS 5852-1 &2 -79/82 BS 5852– 2006 BS EN 1021- 1& 2: 2014 ISO 8191-1 :1987 ISO 8191-2: 1988 CTB 116:1980	1 min to 10min
		Furniture & Furnishings	CTB 117:2013 Furniture & Furnishing fire safety regulation: 1988 (Amended1989/2010 ISO 6940 : 2004 BS EN ISO 6940 : 2004 CAN/CGSB-4.2 No.27.4-(2016) AS 2755.1:1985 (R2013) DIN EN ISO 6940: (2004-06) ISO 6941 : 2003 BS EN ISO 6941:2003 CAN/CGSB-4.2 No.27.3-201X(2016) AS 2755.2:1985 (R2013) DIN EN ISO 6941: (2004-05) BS 5438 : 1976 BS 5722 : 1982	
		Vertical	U.K. Nightwear Safety Regulations (1985) BS 5651:1978 BS 5651 : 1989 EN 1103 : 2005 BS EN 1101:1996 BS EN 1102:2016 BS EN 1103:2005	1.0s to 2 min

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			ISO 15025:2016 BS 5867-1:2004 BS 5867-2:2008	
		Burning Behavior - Children Nightwear	BS EN 14878:2007 EN 14878:2007 NF EN 14878:2007	Range Up to 120s
		Bedding Items	BS EN ISO 12952-1&2:2010 ISO 12952-1 &2 :2010 NF EN ISO 12952-1&2:2010	Observation up to 1 hr
		Blanket Flammability	ASTM D4151:10	1 s to100 s
		Children Sleepwear -Size group(0-6) -Size group(7-14)	16 CFR 1615 16 CFR 1616	1 cm to 25cm
		Requirement & Test method for wheel chairs	BS ISO 7176 -16 :2012	Observation up to 1 hr
		Fire test for flame propagation of textiles & films	NFPA 701:2015 (Method 1)	1 % to 100%
		Water Repellency	AATCC 22:2014 ISO 4920:2012 BS EN ISO 4920:2012 CAN/CGSB-4.2No26.2 (RA 2012) AS 2001.2.16-1987(R 2016) JIS L 1092:2009	Grade 0-5 (ISO Rating: 0-100) (Visual)
		Tensile Strength (Strip Method)	AS 2001.2.3.1.2001 (R 2016) ASTM D5035:11 ISO 13934-1:2013 JIS L 1096 :2010 BS 2576:1986	25N to 3000 N (2.54 Kg to 305.91 Kg)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		(Grab Method)	CAN/CGSB4.2No.9.1-M90(RA 2013) BS EN ISO 13934-1:2013 ASTM D5034: 09(2013) ISO 13934-2:2014 BS EN ISO 13934-2:2014 CAN/CGSB-4.2No.9.2-M90:(RA 2013) AS 2001.2.3.2-2001(R 2016) JIS L 1096 :2010 ASTM D5035:11	
		Elastic Properties of Fabrics	BS 4952:1992 BS EN 14704-1:2005 EN 14704-1:2005 NF EN 14704-1:2005 NF EN 14704-3 :2007 DIN EN 14704-1: (2005-07) ASTM D3107:07(2011) ASTMD 2594:2004 (RA 2016) ASTM D 6614:2007 (RA 2015) ASTM D 4964:1996 (RA 2016)	Stretch 1 % to 300% Recovery 10 % to 100%
		Seam Properties (Slippage) - Fixed seam opening	ASTMD – 434:1995 BS – 3320:1988 CAN CGSB-4.2No.32.1-98(RA 2013). ISO 13936-1 : 2004 BS EN ISO 13936-1:2004 ASTM D1683/D1683M : 2016 CAN/CGSB -4.2No.32.2-M89-1997	10N to 490N (1.02 kg – 49.97 kg)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Fixed Load	AS 2001.2.22-2006(R2016) BS EN ISO 13936-2:2004 ISO 13936-2 : 2004 JIS L 1096 :2010	0.5 mm to 20 mm
		Strength	ISO 13935-1:2014(Strip method) ISO 13935-2:2014(grab method) AS 2001.2.20-2004(R2016) JIS L 1093:2011 ASTM D1683/D1683M : 2016	10N to 490N (1.02 kg to 49.97 kg)
		Bursting Strength (Hydraulic Method)	ISO 13938-1:1999 BS EN ISO 13938-1:1999 DIN EN ISO 13938-1: (1999-10) ASTM D3786/D3786M-13 CAN CGSB-4.2 No.11.1-(RA 2013)	135 kPa to 1200 kPa (20psi to 180psi)
		(Pneumatic Method)	AS 2001.2.4:1990(R 2016) BS EN ISO 13938-2: 1999 ISO 13938 – 2: 1999	25N to 3000 N (2.54 kg to 305.91 kg)
		(Ball brust method)	ASTM D6797:07(2011)	
		Tear Strength Elmendorf Method	ASTM D1424:09(2013) ISO 13937-1:2000 /Cor 1:2004 BS EN ISO 13937-1:2000 CAN/CGSB-4.2No.12.3-2005(RA 2013) AS 2001.2.8:2001 (RA 2016) JIS L 1096:2010	4N - 55 N (0.408 kg – 5.61 kg)
		Single Rip (Trapezoid)	ASTM D2261–13 ASTM D5587-14	5 N to 390 N (0.51kg to 39.77 kg)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			ASTM D4533/D4533M-15 BS EN ISO 13937-2:2000 ISO 13937-2:2000 CAN/CGSB-4.2No.12.3-2005(RA 2013) JIS L 1096:2010	
		Singe Tear (Wing Shape Tear)	BS EN ISO 13937-3:2000 ISO 13937-3:2000	5 N to 390 N (0.51kg to 39.77 kg)
		Double Tear (Tongue Shape)	EN ISO13937-4:2000 BS EN ISO 13937-4:2000	10 N to 390N (1.02 kg – 49.97 kg)
		Abrasion Resistance-Martindale Method	ASTM D4966-2016 BS EN ISO 12947-2:2016 BS EN ISO 12947-3:1999 BS EN ISO 12947-4:1999 ISO 12947-2: 2016 (except stretch fabrics) ISO 12947-3:1998/Cor1:2002 ISO 12947-4:1998/Cor1:2002 AS 2001.2.25.1-2006 (R 2016) AS 2001.2.25.2-2006 (R 2016) JIS L 1096:2010 Method E Clause 8.17	Upto 90000 Cycle
		Flat Abrasion -Screen wire Method	AATCC 119:2013 JIS L1096:2010 Method A1	Qualitative Grade 1-5
		Abrasion –Inflated Diaphragm Method	ASTM D3886:99(2011)e1	Qualitative Grade 1-5 100-1000 cycle
		Flat Abrasion	AATCC 120:2013	Qualitative

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		(Frosting)-Emery Abrasion – Inflated diaphragm Method		Grade 1-5
		Accelerotor Method	AATCC 93: 2011(RA 2016)	2 minute to 6 minute
		Fabric Propensity to surface fuzzing and to Pilling Pill Box Method Modified Martindale Method Random Tumble Pilling Method Elastomeric Pad Method	ISO 12945-1:2000 BS EN ISO 12945-1:2001 ISO 12945-2:2000 BS EN ISO 12945-2:2000 ASTM D4970/D4970M--2016 ASTMD3512/D3512M--2016 DIN 53867: (1990-10) ASTM D3514/ D3514M--2016	Qualitative (Grade 1-5)
		Snagging Resistance	ASTM D3939/D 3939M-13 JIS L1058:2011 Method A JIS L1058:2011 Method D2 CAN/CGSB-4.2No.60-M89: (RA 2013) BS 8479:2008	Qualitative (Grade 1-5)
		Dimensional Stability to -Washing	AATCC 135 : 2014 AATCC 150 : 2012 ISO 6330:1984 ISO 6330:2000 /Amend.1: 2008 DIN EN ISO 6330:2010 BS EN ISO 6330:2001+A1 2009 ISO 6330:2012 BS EN ISO 6330:2012 DIN EN ISO 6330:(2013-02)	Upto 20 %

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Dry Cleaning	BS EN 26330 :1994 AS 2001.5.4-2005 (RA 2016) CAN CGSB- 4.2.No.58: 04 JIS L 0217:1995 ISO 3175-1&2 :2010 AATCC 158:2011	Upto 20 %
		Dimensional Stability to Steam	BS 4323: 1979 ISO 3005: 1978	Upto 20 %
		Appearance Fabric Crease Seam Smoothness Fabric Smoothness	AATCC-88C:2014 ISO 7769:2009 CAN CGSB4.2No.59.3-M88:1993 AATCC-88B:2014 ISO 7770:2009 CAN CGSB4.2No.59.2 M88:1993 AATCC-124:2014 ISO 7768:2009 CAN CGSB 4.2 No.59. 1M88: 1993	Qualitative (Grade 1-5)
		Wettability of textile fabrics	BS 4554:1970	1 s to 200 s
		Safe Ironing Temperature	BS 7305:1990, BS 6526: 1998 Sec 4.2.1	100 °c to 230°c
		Water Absorption of Terry Fabrics	ASTM D4772:14	1 ml to 50ml
		Ultra violet protection factor	AATCC 183:2014 BS EN 13758-1:2002 AS/NZS 4399:1996	5 to 50
		Terry Towel – Specifications & Method of Test	NF EN 14697:2005 (Except Limiting Viscosity)	Upto 60s
		Crimp	ISO 7211-3:1984	1 % to 10%

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Absorbency of Textiles	AATCC 79:2014	Upto 60 s
		Vertical wicking	AATCC 197:2013	1mm to 150mm 10s to 30 min
		Horozontal wicking	AATCC 198:2013	0.1 – 26.1 mm²/s
4.	**Garment**	Appearance -Garment	AATCC – 143:2014 ISO 15487:2009	Qualitative (Grade 1-5)
5.	**Garment Accessories**	SlideFastners(Zips) Specfications (Strength tester zipper) SlideFastners(Zips) Specfications (Top stop, Croswise strength, Bottom stop, Puller attachment, , Strength of chain & Elements, Holding strength of separable units, Holding strength of slider lock.	BS 3084:2006 BS EN 16732:2015 PD CEN/TR 16792:2014 ASTM D2061:07(2013)	1 cycles to 500 cycles 10 N to 980 N (1.02 Kg to 99.93 Kg) 10 N to 980 N (1.02 Kg to 99.93 Kg)
		SlideFastners(Zips) Specfications (Puller attachment test, Closed end test, Top-stop test, Open end fastener box test, Reciprocating test, Lateral strength test, Lateral strength of open-end attachment test, Slider locking test,	AS 2332:2003	10 N to 980 N (1.02 Kg to 99.93 Kg)
		SlideFastners(Zips) Specfications	NF G 91-005:1984	10 N to 980 N (1.02 Kg to 99.93 Kg)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		(Lateral strength of chain, tensile strength of slider, Slider locking strength, stop test using slider, Lateral strength using slider, lateral strength of closed or open end, open end fastener box test, force required to move slider on stringers, endurance		
		Button Impact	ASTM D5171-2015	32 mm to117 mm
		Removal Force of attached component	EN 71-1: 2014(Clause 8.4) BS EN 71-1: 2014 (Clause 8.4) BS 4162 :1983 (Tension & Impact Test Section 4) BS 7907:2007 16 CFR 1500.51 Section (f) 16 CFR 1500.52 Section (f) 16 CFR 1500.53 Section (f) ASTM F963-2016 (Clause 8.9) PD CEN/TR 16792:2014	5 N to 980 N (0.51 Kg to 99.93 Kg)
		Resistance to Pile Loop Extraction	BS EN 15598:2008 ASTM D1335-12 BS 5229:1975 ISO 4919:2012	3 N to 200 N (0.31 Kg to 20.39 Kg)
		Operability of Zippers	ASTM D2062: 03(2014)	1 N to 20 N (0.10 Kg to 2.04 Kg)
		Resistance to Twist of Pull & Slider Torque Test	ASTM D2061:07(2013) (Section 52) BS EN 71-1 : 2014 EN 71-1:2014	10 c N.m to 90 c N.m

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			16 CFR 1500.51 Section (e) 16 CFR 1500.52 Section (e) 16 CFR 1500.53 Section (e) ASTM F963-2016 (Clause 8.8)	
6.	**Footwear Garments**	Abrasion Resistance of knitted footwear garments	BS EN 13770:2002 (Method 1)	1000 cycles to 30000 cycles
7.	**Garment Accessories**	Sharp Point	16 CFR 1500.48 BS EN 71-1: 2014 (Clause 8.12) EN 71-1: 2014 (Clause 8.12) ASTM F963-2016 (Clause 4.9)	Qualitative
		Sharp Edge	16 CFR 1500.49 BS EN 71-1: 2014 (Clause 8.11) EN 71-1: 2014 (Clause 8.11) ASTM F963-2016 (Clause 4.7)	Qualitative Visual Observation
		Small Parts	16 CFR 1501 BS EN 71-1: 2014 (Clause 8.2) EN 71-1:2014 (Clause 8.2) ASTM F963-2016 (Clause 4.6) PD CEN/TR 16792:2014	Visual Observation
		Holding Strength of Prong Ring	ASTM D7142-05(RA 2016)	5 N to 300 N (0.51Kg to 30.59 Kg)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		attached snap fastners		
8.	**Others- Gloves**	Domestic Oven Gloves General Multi layer Construction Thickness Rate of Thermal Diffusion Dimension Marking	BS 6526 :1998 Sec .4.1 Sec. 4.2.2 Sec4.2.3, ISO 5084:1996 Section 4.3, Section 4.4 Section 5 BS EN ISO 5084:1997	1 °C to 50°C 5 mm to 15mm 1°C to 50°C 15 mm to 45 mm
II.	**LEATHER AND LEATHER PRODUCTS**			
1.	**Leather**	Tensile Strength & Elongation	ISO 3376: 2011 IUP 6:2011 SLP 6:1996 ASTM D 2208: : 2016 DIN EN ISO 3376:2012 Ref:SATRA TM 43:2000 NF EN 13522:2002	5 N to 1000 N (0.51 Kg to 100 Kg)
		Tear strength	ISO 3377-1:2011 ISO 3377-2:2016 DIN EN ISO 3377-1:2012 DIN EN ISO 3377-2:2016 Ref:SATRA TM 162:1992 ASTM D 2212:2000 (RA 2010) NF EN 13571:2002 BS EN 13571:2002 DIN EN 13571:2002 Ref:SATRA TM 30:1995 ASTM D:4704:2013 EN ISO 20344:2011	3 N to 1000 N (0.31 Kg to 100 Kg)

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			(Clause-6.3) EN ISO 20345:2011 (Clause-5.4.3) EN ISO 20346:2014 (Clause-5.4.3) EN ISO 20347:2012 (Clause-5.4.3)	
		Flex Resistance	ISO 5402-1:2017 NF EN 13512:2002 BS EN 13512:2002 DIN EN 13512:2002 Ref:SATRA TM 55:1999	1cycles to 9, 99,999 cycles (Visual Observation)
		Water repellency of garment leather	ASTM D 1913: 2000 (RA 2010) ISO 17231:2006	Upto 100 1-5 Grade (Visual)
		Heat Stability	ISO 17227:2002 SLP 33: 1996 IUP 35: 2002	Up to 10%
		Thickness	ISO 2589: 2016 IUP 4: 1996 SLP 4: 1996 ASTM D 1813: 2013 DIN EN ISO 2589: 2016 Ref: SATRA 01:2004	0.01 mm to 10 mm
		Apparent Density	ISO 2420: 2017 IUP 5: 2002 SLP 5: 1996	Up to 800 Kgf/ CC
		Adhesion of finish	ISO 11644: 2009 IUF 470: 2009 SLF 470: 1997	3 N to300 N (0.31 Kg to 30.59 Kg)
		Abrasión Resistance	NF EN 13520:2002 BS EN 13520:2002 SATRA TM 31:2003 DIN EN 13520:2005	R : 1 to 99999 Cycles

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			EN ISO 20344:2011 (Clause-6.12) EN ISO 202345:2011(Clause-5.5.2) EN ISO 20346:2014 (Clause-5.5.2) EN ISO 20347:2012(Clause-5.5.2)	
		Extension Set	ISO 17236: 2016	2.5 to 120 N (0.26 Kg – 12.34 Kg)
		Water Absorption & Desorption	NF EN 12746:2000 (Type-1)	1-100%
2.	**Footwear & Accessories**	Strength of Buckle Fastening Assemblies	BS 5131Section 5.11:1981 REF : SATRA TM 181:1996	5 N to 3000 N
		Seam Strength	BS 5131Section 5.13:1980 NF EN 13572:2002 Method B BS EN 13572:2002 Method B REF : SATRA TM 180:1995 DIN EN 13572:2002 Method B)	5 N to 2000 N
		Sole Bond Peeling Strength	BS 5131:1978 Section 5.4 EN ISO 20344::2011(Clause-5.2) EN ISO 20345:2011(Clause-5.3.1.2) EN ISO 20346: 2014 (clause-5.3.1.2) EN ISO 20347:2012 (Clause-5.3.1.2)	3 N to 1000 N

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			ISO 17708: 2003 REFSATRA TM 411:1992	
		Full Shoe Flexing	REFSATRA TM 92: 1992	Visual observation (Upto 999999 flexes)
		Toe Post Strength	REFSATRA TM 118: 1992	5 N to 2000N
		Heel Attachment	REFSATRA TM 113: 1996 NF EN 12785: 2000	5 N to 3000 N
		Decorative Bow Attachment Strength	REFSATRA TM 117: 1992	3 N to 2000 N
		Buckles Breaking Force- 3 Point Bending	REFSATRA TM 141: 1994	5 N to 3000 N
		Eyelet Facing and Other Laced Fastening Strength	REF: SATRA TM 149: 1999	5 N to 3000 N
		Water Penetration & Absorption	ISO 20344:2011 (Clause 6.13) ISO 20345:2011 (Clause 6.3) ISO 20346:2014 (Clause 6.3.1) ISO 20347:2012 (Clause 6.3)	R: 0- 200%
		Ross Flex Test- Resistance to cut growth on flexing	REF: SATRA TM 60: 1992 BS 5131 Sec 2.1:1991 ISO 5423:1992 Annexure C ISO 4643:1992 Annexure C	R : 1 to 999999 Cycles
		Strength of Top Piece Attachment	REF: SATRA TM 108 : 1992	5 to 3000 N
		Strength of Attachment of straps and nailed or stapled uppers	REF: SATRA TM 120:2001	5 to 3000 N

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Water Vapour Absorption	EN ISO 20344:2011 (Clause-6.7)	R:1-100mg/cm²
		Fatigue test for shoe heels	REF: SATRA TM 21: 2001 BS 5131 Sec. 4.9:1991 ISO 19956:2004	R : 1 to 999999 Cycles
		Bennewart Sole Flexing	ISO 17707:2005,Clause 6.3 REF: SATRA TM 161:2004 EN ISO 20344:2011 (Clause-8.4) EN ISO 20345:2011 (Clause-5.8.4 EN ISO 20346:2014 (Clause-5.8.4)	R : 1 to 999999 Cycles
		Tensile Strength (soling material)	NF EN 12803:2000	5 N to 1000 N
		Tear Strength (soling material)	BS ISO 34-1:2015 (Method-A) REF:SATRA 218:1999 EN ISO 20344:2011 (Clause-8.2) EN ISO 20345:2011(Clause-5.8.2) EN ISO 20346:2014 (Clause-5.8.2)	1 N to1000 N
		Abrasion Resistance (Drum)	BS ISO 4649:2010 REF:SATRA TM 174:1994 REF:SATRA TM 193:2004 NF EN 12770:2000 ASTM D 5963:2004 (RA 2015) EN ISO 20344:2011 (Clause-8.3) EN ISO 20345:2011 (Clause-5.8.2)	Upto 3000 mm^3

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			EN ISO 20346:2014 (Clause-5.8.3) EN ISO 20347:2012 (Clause-5.8.3)	
		Breaking strength & extension at break for shoe lace	REF: SATRA TM 94:1993 BS 5131:1991 (Section: 3.7)	5 N to 3000 N
		Tensile strength & Elongation (Leather & other material)	EN ISO 20344:2011 (Clause-6.4.1) EN ISO 20345:2011 (Clause-5.4.4) EN ISO 20346:2014 (clause-5.4.4) EN ISO 20347:2012 (Clause-5.4.4)	5 N to 3000 N
		Tensile Strength & Elongation (rubber & plastic coated fabric)	ISO 1421: 2016 (Type 1 & 2)	5 N to 2000 N 1 % to 25 %
		Corrosion Resistance Footwear-Metallic accessories	ISO 22775:2004	Qualitative