Laboratory	**Ecological Laboratories Pvt. Ltd., A-373, T.T.C. Industrial Area, Mahape, Navi Mumbai, Maharashtra**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**TC-7849** ***(in lieu of T-1325 & T-1326)***	**Page 1 of 36**	
Validity	**06.09.2018 to 05.09.2020**	**Last Amended on 14.12.2018**	

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

CHEMICAL TESTING

I.	**TEXTILE (WOVEN & NON WOVEN)**			
1.	**Textiles and Related Accessories**	**Free and hydrolysed Formaldehyde**	BS EN ISO 14184-1:2011	10 mg/kg to 1000 mg/kg
		Banned Amines/ CAS No.	EN-14362-1:2017	
		4-aminobiphenyl (92-67-1)	EN-14362-1:2017	10 mg/kg to 50mg/kg
		Benzidine(92-87-5)		5 mg/kg to 50mg/kg
		4-chloro-o-toluidine (95-69-2)		10 mg/kg to 50mg/kg
		2-naphthyl amine (91-59-8)		5 mg/kg to 40mg/kg
		O-Amino azotoluene (97-56-3)		10 mg/kg to 40mg/kg
		5-nitro-o-toluidine (99-55-8)		10 mg/kg to 50mg/kg
		4-chloroaniline (106-47-8)		10 mg/kg to 50mg/kg
		4-methoxy-m-phenylenediamine (615-05-4)		10 mg/kg to 75mg/kg
		4, 4'-diamino diphenyl methane (101-77-9)		10 mg/kg to 50mg/kg
		3,3'-dichloro benzidine (91-94-1)		10 mg/kg to 75mg/kg
		3,3'-dimethoxy benzidine (119-90-4)		10 mg/kg to 50mg/kg
		3,3'-dimethyl benzidine (119-93-7)		10 mg/kg to 40mg/kg

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		4,4'-methylenedi-o-toluidine (838-88-0)		10 mg/kg to 400mg/kg
		p-cresidine (120-71-8)		10 mg/kg to 40mg/kg
		4,4'-methylene-bis-(2-chloro-aniline) (101-14-4)		10 mg/kg to 50mg/kg
		4,4'-oxydianiline (101-80-4)		10 mg/kg to 60mg/kg
		o-toluidine (95-53-4)		10 mg/kg to 50mg/kg
		4-methyl-m-phenylenediamine (95-80-7)		15 mg/kg to 50mg/kg
		2,4,5-trimethylaniline (137-17-7)		5 mg/kg to 30mg/kg
		4,4'-thiodianiline (139-65-1)		10 mg/kg to 60mg/kg
		o-anisidine (90-04-0)		15 mg/kg to 50mg/kg
		2,6-xylidine (87-62-7)		10 mg/kg to 40mg/kg
		2,4-xylidine (95-68-7)		10 mg/kg to 60mg/kg
		5-Choloro-2-methyl aniline (95-79-4)		5 mg/kg to 35mg/kg
		P-PhenyleneDiamine (106-50-3)		5 mg/kg to 35mg/kg
		N,N-Dimethyl aniline (121-69-7)		5 mg/kg to 35mg/kg
		Aniline(62-53-5)		5 mg/kg to 50mg/kg
		4-aminoazobenzene (60-09-3)	EN-14362-3:2017	5 mg/kg to 75mg/kg

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		Chorinated Phenols and o-Phenyl Phenol	ECTM-01:2018, issue no.2,April 2018	
		Monochlorinated Phenols (sum		
		2-Chloro Phenol		0.5 mg/kg to 2.5 mg/kg
		3-Chloro Phenol		0.5 mg/kg to 5 mg/kg
		4-Chloro Phenol		1 mg/kg to 5 mg/kg
		Dichlorinated Phenols(sum)		
		2,3-Dichloro Phenol		1 mg/kg to 5 mg/kg
		2,4 Dichloro Phenol		1 mg/kg to 5 mg/kg
		2,5-Dichloro Phenol		1 mg/kg to 5 mg/kg
		2,6 Dichloro Phenol		1 mg/kg to 5 mg/kg
		3,4-Dichloro Phenol		1 mg/kg to 5 mg/kg
		3,5-Dichloro Phenol		1 mg/kg to 5 mg/kg
		Trichlorinated Phenols (Sum)		
		2,3,4Trichloro Phenol		1 mg/kg to 5mg/kg
		2,3,5Trichloro Phenol		1 mg/kg to 5mg/kg
		2,3,6Trichloro Phenol		1 mg/kg to 5mg/kg
		2,4,5 Trichloro Phenol		1 mg/kg to 5mg/kg
		2,4,6 Trichloro Phenol		1 mg/kg to 5mg/kg
		3,4,5Trichloro Phenol		1 mg/kg to 5mg/kg
		Tetrachlorinated Phenols(sum)		
		2,3,4,5 Tetra chloro Phenol		0.05 mg/kg to 3mg/kg
		2,3,4,6Tetra chloro Phenol		0.05 mg/kg to 5 mg/kg
		2,3,5,6Tetra chloro Phenol		0.05 mg/kg to 3mg/kg
		Pentachloro Phenol		0.05 mg/kg to 1mg/kg
		Ortho Phenyl Phenol		0.05 mg/kg to 1mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Extractable Heavy Metals	EN 16711-2:2015	
		Copper		0.25 mg/kg to 2.5 mg/kg
		Cadmium		0.25 mg/kg to 2.5 mg/kg
		Arsenic	ECTM 14,issue no.2, dated:17-11-2017	0.25 mg/kg to 2.5 mg/kg
		Nickel	EN 16711-2:2015	0.25 mg/kg to 2.5 mg/kg
		Lead		0.25 mg/kg to 2.5 mg/kg
		Antimony		0.25 mg/kg to 2.5 mg/kg
		Cobalt		0.25 mg/kg to 2.5 mg/kg
		Mercury	ECTM 14,issue no.2, dated:17-11-2017	0.25 mg/kg to 2.5 mg/kg
		Selenium	EN 16711-2:2015	0.25 mg/kg to 2.5mg/kg
		Tin		0.25 mg/kg to 2.5 mg/kg
		Chromium		0.25 mg/kg to 2.5mg/kg
		Extractable Chromium VI	ECTM-14, issue no.2,31-10-2015	0.5 mg/kg to 5 mg/kg
		pH Value	ISO 3071:2005	2 to 13
		Phthalates	CPSC-CH-C1001-09.4, Jan, 2018	
		Benzyl butyl phthalate (99-55-8)		0.05 % to 0.5%
		Di-butyl phthalate (84-74-2)		0.005 % to 0.05%
		Bis-2-ethyl hexyl phthalate (117-81-7)		0.05 % to 1%
		Di-iso-nonyl phthalate (68515-48-0)		0.03 % to 0.5%
		Di-iso-butyl phthalate		0.005% to 0.1%
		Di-n-hexyl phthalate		0.005% to 0.05%
		Di-cyclohexyl phthalate		0.005% to 0.05%
		Di-pentyl phthalate		0.005% to 0.05%
		Phthalates	ISO 14389:2014	
		Benzyl butyl phthalate (99-55-8)		0.01 % to 0.5%

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Di-butyl phthalate (84-74-2)		.005 % to 0.05%
		Bis-2-ethyl hexyl phthalate (117-81-7)		0.05 % to 0.5%
		Di-n-octyl phthalate (117-84-0)		0.05 % to 0.5%
		Di-iso-nonyl phthalate (68515-48-0)		0.05 % to 1%
		Di-iso-decyl phthalate (26761-40-0)		0.005 % to 0.1%
		Di-iso-butyl phthalate. (84-69-5)		0.005 % to 0.1%
		Di-methoxyethyl phthalate (117-82-8)		0.005 % to 0.1%
		Di-pentyl phthalate (131-18-0)		0.005 % to 0.05%
		Di-isoheptyl phthalate (71888-89-6)		0.005 % to 0.05%
		Di-n-hexyl phthalate (84-75-3)	ECTM-21,issue no.1, dated 30-1-2016	0.005 % to 0.05%
		Bis-4-methyl pentyl phthalate (71850-09-4)		0.003 % to 0.01%
		Di-iso-hexyl phthalate (68515-50-4)	ISO 14389:2014	0.003 % to 0.01%
		Di-C7-11-branched alkylphthalates (68515-42-4)	ECTM-21,issue no.1, dated 30-1-2016	0.05 % to 0.5%
		Short Chain Chlorinated Paraffins (SCCP)	ECTM-19,issue no.2 dated 18th June 2018	25 mg/kg to 2000 mg/kg
		Medium Chain CholorinatedParaffins (MCCP)	ECTM-19,issue no.2 dated 18th June 2018	250 mg/kg to 1000mg/kg
		Dimethyl Fumarate	CEN ISO/TS16186:2012(E)	0.04 mg/kg to 20 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Poly Aromatic Hydrocarbons (PAH)	ECTM 18:2015, Issue No.2, Dated 1/09/2016	
		Naphthalene (91-20-3)	ECTM 18:2015, Issue No.1, Dated 1/09/2016	5 mg/kg to 25 mg/kg
		Acenaphthylene (208-96-8)		2.5 mg/kg to 25 mg/kg
		Acenaphthene(83-32-9)		2.5 mg/kg to 25 mg/kg
		Fluorene(86-73-7)		5 mg/kg to 50 mg/kg
		Phenanthrene (1517-22-2)		50 mg/kg to 300 mg/kg
		Anthracene(120-12-7)		25 mg/kg to 100 mg/kg
		Fluoranthene(206-44-0)		25 mg/kg to 300 mg/kg
		Pyrene(129-00-0)		25 mg/kg to 250 mg/kg
		Benzo(a) anthracene (56-55-3)		25 mg/kg to 200 mg/kg
		Chrysene (218-01-9)		25 mg/kg to 250 mg/kg
		Benzo(b) fluoranthene (205-99-2)		25 mg/kg to 100 mg/kg
		Benzo(j) fluoranthene (205-82-3)		25 mg/kg to 100 mg/kg
		Benzo(k) fluoranthene (207-08-9)		10 mg/kg to 50 mg/kg
		Benzo(a) pyrene(50-32-8)		25 mg/kg to 100 mg/kg
		Indeno (1,2,3-cd) pyrene(193-39-5)		10 mg/kg to 50 mg/kg
		Dibenzo(a,h)anthracene (189-64-0)		5 mg/kg to 25 mg/kg
		Benzo(g,h,i) perylene(191-24-2)		25 mg/kg to 100 mg/kg
		Benzo(e) pyrene (192-97-2)		25 mg/kg to 100 mg/kg
		Cyclopenta(c,d) pyrene (27208-37-3)		5 mg/kg to 25 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Dibenzo(a,h) pyrene (189-64-0)		25 mg/kg to 100 mg/kg
		Dibenzo(a,l) pyrene (191-30-0)		5 mg/kg to 25 mg/kg
		Dibenzo(a,i) pyrene (189-55-9)		5 mg/kg to 25 mg/kg
		Dibenzo(a,e) pyrene (192-65-4)		5 mg/kg to 25 mg/kg
		1-Methyl pyrene (2381-21-7)		5 mg/kg to 25 mg/kg
		Organotin Compounds	ECTM-16:2015	
		n-butyltintrichloride (1118-46-3)	ECTM-16,Issue No.2, dated 12 April 2018	0.2 mg/kg to 5 mg/kg
				0.2 mg/kg to 2 mg/kg
		n-octyltintrichloride (3091-25-6)		
		Di-n-butyltindichloride (683-18-1)	ECTM-16:2015	0.2 mg/kg to 5 mg/kg
		Di-n-octyltindichloride (3542-36-7)		0.2 mg/kg to 5 mg/kg
		Triphenyltin chloride entin chloride) (639-58-7)		0.2 mg/kg to 5 mg/kg
		Tri-n-butyltin chloride (1461-22-9)		0.2 mg/kg to 5 mg/kg
		Tricyclohexyltin chloride (3091-32-5)	ECTM-16,Issue No.2, dated 12 April 2018	0.2 mg/kg to 5 mg/kg
		Tetra-n-butyltin (1461-25-2)		0.2 mg/kg to 5 mg/kg
		Odour	SOP-CG-200 (Based on SNV 19651)-2015	Qualitative
		N, N-Dimethyl Formamide	CEN ISO/TS 16189:July 2013(E)	10 mg/kg to 2000 mg/kg
		Alkyl phenols (AP) 4-octyl Phenol (1806-26-4)	ECTM 17:2015 Issue No.:02, dated 12/04/2018	5 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
		4-Nonyl Phenol (84852-15-3)		5 mg/kg to 50 mg/kg
		Alkyl Phenol Ethoxylate (APEO)	ISO 18254-1:2016	1 mg/kg to 30 mg/kg
		Octyl Phenol Ethoxylate (Triton X-100) (9002-93-1)		1 mg/kg to 30 mg/kg
		Nonyl Phenol Ethoxylate (68412-54-4)		5 mg/kg to 50 mg/kg
		Disperse Dyes (Allergens)	DIN 54231:2005	
		Disperse Brown 1, 23355-64-8)		5 mg/l to 25mg/l
		Disperse Orange 1, (2581-69-3)		5 mg/l to 100 mg/l
		Disperse Orange 3, (730-40-5)		5 mg/l to 100 mg/l
		Disperse Orange37, (13301-61-6)		5 mg/l to 100mg/l
		Disperse Red 1, (2872-52-8)		5 mg/l to 100mg/l
		Disperse Red 11, (2872-48-2)		5 mg/l to 100mg/l
		Disperse Red 17, (3179-89-3)		5 mg/l to 100mg/l
		Disperse Yellow 1, (119-15-3)		5 mg/l to 100mg/l
		Disperse Yellow 3, (2832-40-8)		5 mg/l to 100mg/l
		Disperse Yellow 9, (6373-73-5)		5 mg/l to 100mg/l

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Disperse Yellow 39 (12236-29-2)		5 mg/l to 100mg/l
		Disperse Yellow 49 (54824-37-2)		5 mg/l to 100mg/l
		Disperse Blue 1, (2475-45-8)		5 mg/l to 100mg/l
		Disperse Blue 3, (2475-46-9)		5 mg/l to 100mg/l
		Disperse Blue 7, (3179-90-6)		5 mg/l to 100mg/l
		Disperse Blue 26, (3860-63-7)		5 mg/l to 100mg/l
		Disperse Blue 35, (12222-75-2)		5 mg/l to 100mg/l
		Disperse Blue 102, (69766-79-6)		5 mg/l to 100mg/l
		Disperse Blue 106, (12223-01-7)		5 mg/l to 100mg/l
		Disperse Blue 124, (61951-51-7)		5 mg/l to 100 mg/l
		Disperse Dyes (Carcinogens) Acid Red-26	DIN 54231:2005	
		(3761-53-3)	DIN 54231:2005	5 mg/l to 100mg/l
		Basic Red-9 (1937-37-7)		5 mg/l to 100mg/l
		Basic Violet 14 HCL (632-99-5)		5 mg/l to 100mg/l
		Direct Black-38 (1937-37-7)		5 mg/l to 100mg/l
		Direct Blue-6 (2602-46-2)		5 mg/l to 100mg/l
		Direct Red-28 (573-58-0)		5 mg/l to 100mg/l

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Disperse Orange-11 (82-28-0)		5 mg/l to 100mg/l
		Disperse Orange-149 (85136-74-9)		5 mg/l to 100mg/l
		Disperse Yellow 23 (6250-23-3)		5 mg/l to 100mg/l
		Chlorinated Organic Carriers (COC) 1,2-Dichloro benzene (95-50-1)	DIN 54232:2010	0.1 mg/kg to 5 mg/kg
		1,3-Dichloro benzene (541-73-1)		0.1 mg/kg to 5 mg/kg
		1,4-Dichloro benzene (106-46-7)		0.1 mg/kg to 5 mg/kg
		1,2,3-Trichloro benzene (87-61-6)		0.1 mg/kg to 5 mg/kg
		1,3,5-Trichloro benzene (108-70-3)		0.1 mg/kg to 5 mg/kg
		1,2,3,4-Tetrachloro benzene (634-66-2)		0.1 mg/kg to 5 mg/kg
		1,2,3,5-Tetrachloro benzene (634-90-2)		0.1 mg/kg to 5 mg/kg
		1,2,4,5-Tetrachloro benzene (95-94-3)		0.1 mg/kg to 5 mg/kg
		Pentachloro benzene (608-93-5)		0.1 mg/kg to 5 mg/kg
		Hexachloro benzene (118-74-1)		0.1 mg/kg to 5 mg/kg
		2-Chloro toluene (95-49-8)		0.1 mg/kg to 5 mg/kg
		3-Chloro toluene (108-41-8)		0.1 mg/kg to 5 mg/kg
		4-Chloro toluene (106-43-4)		0.1 mg/kg 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
		2,3-Dichloro toluene (32768-54-0)		0.1 mg/kg to 5 mg/kg
		2,4-Dichloro toluene (95-73-8)		0.1 mg/kg to 5 mg/kg
		2,5-Dichloro toluene (19398-61-9)		0.1 mg/kg to 5 mg/kg
		2,6-Dichloro toluene (118-69-4)		0.1 mg/kg to 5 mg/kg
		3,4-Dichloro toluene (95-75-0)		0.1 mg/kg to 5 mg/kg
		2,3,6-Trichloro toluene (2077-46-5)		0.1 mg/kg to 5 mg/kg
		2,4,5-Trichloro toluene (6639-30-1)		0.1 mg/kg to 5 mg/kg
		2,3,4,5,6-Pentachloro toluene (877-11-2)		0.1 mg/kg to 5 mg/kg
		Hexachloro Benzene (118-74-1)		0.1 mg/kg to 5 mg/kg
		Total Heavy Metals		
		Lead (Pb) (Metal products)	CPSC-CH-E1001-08.3, Nov 15, 2012	500 mg/kg to 5000 mg/kg
		Lead (Pb) (Non metallic products)	CPSC-CH-E1002-08.3, Nov 15, 2012	50 mg/kg to 500 mg/kg
		Total Heavy Metals	ECTM-09:2015,issue no.1, dated5/05/2016	
		Arsenic (As)	ECTM-09:2015,issue no.1, dated5/05/2016	25 mg/kg to 100 mg/kg
		Antimony (Sb)		500 mg/kg to 50000 mg/kg
		Lead (Pb)		50 mg/kg to 300 mg/kg
		Cadmium (Cd)		50 mg/kg to 500 mg/kg
		Copper		25 mg/kg to 200 mg/kg
		Chromium (Cr)		25100 mg/kg
		Cobalt (Co)		25 mg/kg to 200 mg/kg
		Nickel (Ni)		25 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
		Iron (Fe)		25 mg/kg to 250 mg/kg
		Selenium (Se)		25 mg/kg to 100 mg/kg
		Tin (Sn)		25 mg/kg to 200 mg/kg
		Zinc (Zn)		5 mg/kg to 200 mg/kg
		Barium (Ba)		5 mg/kg to 200 mg/kg
		Manganese (Mn)		5 mg/kg to 200 mg/kg
		Silver (Ag)		5 mg/kg to 200 mg/kg
		Mercury (Hg)		0.005 mg/kg to 90 mg/kg
2.	**Textile, (Fabrics, Garments, Made up yarn), Toys and Related Products**	Textiles-Tests for colour fastness-Part X12:Colour fastness to rubbing	ISO 105 X 12:2016	Qualitative Grade 1 to 5
		Determination of colour fastness of textile materials to rubbing	IS/ISO 105-X12:2001	Qualitative Grade 1 to 5
		Colour fastness to crocking:Crockmeter method	AATCC 8:2016	Qualitative Grade 1 to 5
		Colour fastness to crocking: Textile floor colouring-Crockmeter method	AATCC 165:2013	Qualitative Grade 1 to 5
		Standard test method for colorfastness of zipper tapes to crocking	ASTM D 2054-99 (RA 2015)	Qualitative Grade 1 to 5
		Colour Fastness to Washing Colour fastness to domestic and commercial laundering	ISO 105 C06:2010	Qualitative Grade 1 to 5
		Colour fastness to washing with soap or soap and soda	ISO 105 C10:2006	Qualitative Grade 1 to 5
		Colour fastness to domestic and commercial	ISO 105 C08:2010	Qualitative Grade 1 to 5

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		laundering using a Non-Phosphate reference detergent incorporating a low temp bleach activator		
		Colour fastness to laundering: Accelerated	AATCC 61:2013	Qualitative Grade 1 to 5
		Colour fastness to washing with soap or soap and soda	IS/ISO 105 C10:2006	Qualitative Grade 1 to 5
		Colour Fastness to Washing with domestic and commercial laundering	IS/ISO 105 C06 (RA 2016)	Qualitative Grade 1 to 5
		Textiles-Tests for colour fastness-Part E04:Colour fastness to perspiration	ISO 105 E04:2013	Qualitative Grade 1 to 5
		Textiles-Tests for colour fastness-Part E04:Colour fastness to perspiration	IS/ISO 105 E04:2008 (RA 2014)	Qualitative Grade 1 to 5
		Colour fastness to perspiration	AATCC 15:2013	Qualitative Grade 1 to 5
		Textiles-Tests for colourfastness-Part E01:Colour fastness to water	ISO 105 E01:2013	Qualitative Grade 1 to 5
		Colour fastness to water	AATCC 107:2013	Qualitative Grade 1 to 5
		Textiles-Tests for colour fastness-Part E01:Colour fastness to water	IS/ISO 105 E01:2010	Qualitative Grade 1 to 5
		Textiles-Tests for colour fastness-Part D01:Colour fastness to dry-cleaning using per chloro ethylene solvent.	ISO 105 D01:2010	Qualitative Grade 1 to 5

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Method for determination of colour fastness of textile material to Dry-Cleaning	IS 4802:1988 (RA 2016)	Qualitative Grade 1 to 5
		Colour fastness to dry cleaning	AATCC 132:2013	Qualitative Grade 1 to 5
		Textiles-Tests for colour fastness-Part E02:Colour fastness to sea water	ISO 105 E02:2013	Qualitative Grade 1 to 5
		Colour fastness to water:sea	AATCC 106:2013	Qualitative Grade 1 to 5
		Method of determination of colour fastness of textile materials to sea water	IS 690:1988 (RA 2009)	Qualitative Grade 1 to 5
		Textiles-Tests for colour fastness-Part E03:Colour fastness to chlorinated Water (Swimming-pool water)	ISO 105 E03:2010	Qualitative Grade 1 to 5
		Textiles-Tests for colour fastness-Part E03:Colour fastness to chlorinated Water (Swimming-pool water)	IS/ISO 105 E03:2010 (RA 2017)	Qualitative Grade 1 to 5
		Textiles-Tests for colour fastness-Part B02:Colour fastness to Artificial light:Xenon arc fading lamp test	ISO 105 B02:2014	Qualitative Grade 1 to 5
		Colour fastness of textile materials to Artificial light (Xenon lamp)	IS 2454:1985 (RA 2013)	Qualitative Grade 1 to 5
		Determination of colour fastness to articles for	DIN 53160-1: 2010-10	Qualitative Grade 1 to 5

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		common use-Part 1:Test with artificial saliva		
		Determination of colour fastness to articles for common use-Part 1:Test with artificial sweat	DIN 53160-2: 2010-10	Qualitative Grade 1 to 5
		Testing of colourfastness to textiles:determination of colourfastness of dyeing and prints to sublimation in storage	DIN 54056:2017	Qualitative Grade 1 to 5
		Colour fastness to Phenolic yellowing	ISO 105 X 18:2007	Qualitative Grade 1 to 5
		Determination of dimensional change in washing and drying	ISO 5077:2007	(-)15 % to (+)25%
		Textile-Domestic washing and drying procedures for textiles testing	IS 15370:2005	(-)15 % to (+)25%
		Method for preparation, marking, and measuring of fabric specimens and garments in tests for determination of dimensional Change	IS 10099-1982 (RA 2016)	(-)15 % to (+)25%
		Textiles-Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change	ISO 3759:2011	(-)15 % to (+)25%
		Textiles-Domestic washing and drying procedure for textile testing	ISO 6330:2012	(-)15 % to (+)25%

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		In-house method for measuring twisting/ torque/seam shift/spirality in textiles after washing/ laundering/ dry-cleaning	ECO IHM 02-2015	(-)10 % to (+)10%
		Textile-Determination of spirality after laundering	ISO 16322-1:2005	(-)10 % to (+)10%
		Textile-Determination of spirality after laundering part 2:Woven and knitted fabrics	ISO 16322-2:2005/Cor 1:2007	(-)10 % to (+)10%
		Textile-Determination of spirality after laundering part 3:Woven and knitted Garments	ISO 16322-3:2005	(-)10 % to (+)10%
		In-house method for appearance of fabrics, garments and made-ups	ECO IHM 04-2015	Qualitative Grade 1 to 5
		Fiber composition Textiles-Quantitative chemical analysis-Part 12:Mixture of acrylic, certain mod acrylics, certain chlorofibers, certain elastanes and certain other fibres(Method using Formaldehyde)	ISO 1833-12:2006(E)	1 % to 100%
		Textiles-Quantitative chemical analysis-Part 5:Mixture of viscose, cupro or modal and cotton fibres (Method using sodium zincate)	ISO 1833-5:2006	1 % to 100%

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Textiles-Quantitative chemical analysis-Part 4 Mixtures of certain protein and certain other fibre (method using hypochlorite)	ISO 1833-4:2006(E)	1 % to 100%
		Textiles-Quantitative chemical analysis-Part 11:Mixture of cellulose and polyester fibres (method using sulphuric acid)	ISO 1833-11:2006(E)	1 % to 100%
		Textiles-Quantitative chemical analysis-Part 7:Mixtures of polyamide and certain other fibres (method using formic acid)	ISO 1833-7:2006	1 % to 100%
		Textiles-Quantitative chemical analysis-Part 18:Mixture of silk and wool or hair (method using sulphuric acid)	ISO 1833-18:2006	1 % to 100%
		Textiles-Quantitative chemical analysis-Part 24:Mixture of polyester and certain other fibres (method using phenol and Tetrachloroethane)	ISO 1833-24:2010	1 % to 100%
		Textiles-Quantitative chemical analysis-part 2:Ternary fibre mixtures	ISO 1833-2:2006	1 % to 100%
		Textiles-Quantitative chemical analysis-Part 1:General principles of	ISO 1833-1:2006/ Cor1:2009 Annex B	1 % to 100%

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		testing Method of quantitative analysis by manual separation		
		Fiber Analysis Qualitative	AATCC 20:2013	Qualitative
		Determination of textile fiber	IS 667-1981 (RA 2013)	Qualitative
		Textile:Woven shirtings Made of cotton, man-made fibers/filaments and their Blends-Specification	IS 15852:2009 (RA 2014)	1 % to 100%
		54.Method for quantitative chemical analysis of Binary Mixtures of Polyester fibre with cotton or regenerated cellulose	IS 3416:1998 (RA 2017)	1 % to 100%
		55.Method for quantitative chemical analysis of binary Mixture of nylon 6 or nylon 6.6 fibres and certain other fibres	IS 2005:1988 (RA 2017)	1 % to 100%
		Carpet Flammability	16 CFR 1630:2015	1 to 200mm
3.	**Leather and Related Products**	Colour fastness to perspiration	ISO 11641:2012	Qualitative Grade 1 to 5
		Colour Fastness to water	ISO 11642:2012	Qualitative Grade 1 to 5
II.	**LEATHER PRODUCT**			
1.	**Leather and Related Product**	Free and hydrolysed Formaldehyde	EN ISO 17226-1:2009	10 mg/kg to 1000 mg/kg
		Banned Amines/CAS No.	64 LFGB 82.02.3V:2004	

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		4-aminobiphenyl (92-67-1)	64 LFGB 82.02.3V:2004	10 mg/kg to 50mg/kg
		Benzidine (92-87-5)		5 mg/kg to 50mg/kg
		3) 4-chloro-o-toluidine (95-69-2)		10 mg/kg to 50mg/kg
		4) 2-naphthyl amine (91-59-8)		5 mg/kg to 40mg/kg
		5) O-Amino azotoluene (97-56-3)		10 mg/kg to 40mg/kg
		6) 5-nitro-o-toluidine (99-55-8)		10 mg/kg to 50mg/kg
		7) 4-chloroaniline (106-47-8)		10 mg/kg to 50mg/kg
		8) 4-methoxy-m-phenylenediamine (615-05-4)		10 mg/kg to 75mg/kg
		9) 4, 4'-diamino diphenyl methane (101-77-9)		10 mg/kg to 50mg/kg
		10) 3,3'-dichloro benzidine (91-94-1)		10 mg/kg to 75mg/kg
		11) 3,3'-dimethoxy benzidine (119-90-4)		10 mg/kg to 50mg/kg
		12) 3,3'-dimethyl benzidine (119-93-7)		10 mg/kg to 40mg/kg
		13) 4,4'-methylenedi-o-toluidine(838-88-0)		10 mg/kg to 400mg/kg
		14) p-cresidine (120-71-8)		10 mg/kg to 40mg/kg
		15) 4,4'-methylene-bis-(2-chloro-aniline) (101-14-4)		10 mg/kg to 50mg/kg
		16) 4,4'-oxydianiline (101-80-4)		10 mg/kg to 60mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		17) 4,4'-thiodianiline (139-65-1)		10 mg/kg to 50mg/kg
		18) o-toluidine (95-53-4)		15 mg/kg to 50mg/kg
		19) 4-methyl-m-phenylenediamine (95-80-7)		5 mg/kg to 30mg/kg
		2,4,5-trimethylaniline (137-17-7)		10 mg/kg to 60mg/kg
		O-anisidine (90-04-0)		15 mg/kg to 50mg/kg
		2,4-xylidine (95-68-1)		10 mg/kg to 40mg/kg
		2,6-xylidine (87-62-7)		10 mg/kg to 60mg/kg
		5-Chloro 2-methylaniline (95-79-4)		5 mg/kg to 35mg/kg
		p-phenylenediamine (106-50-3)		5 mg/kg to 35mg/kg
		N, N' Dimethyl aniline (121-69-7)		5 mg/kg to 35mg/kg
		Aniline (62-53-3)		5 mg/kg to 50mg/kg
		Chlorinated Phenols & O-Phenyl phenol	**ECTM-01:2018, issue no.2,April 2018**	
		Monochlorinated Phenols (sum)	ECTM-01:2018	
		2-Chloro Phenol		0.5 mg/kg to 2.5 mg/kg
		3-Chloro Phenol		0.5 mg/kg to 5 mg/kg
		4-Chloro Phenol		1 mg/kg to 5 mg/kg
		Dichlorinated Phenols (sum)		
		2,3-Dichloro Phenol		1 mg/kg to 5 mg/kg
		2,4 Dichloro Phenol		1 mg/kg to 5 mg/kg
		2,5-Dichloro Phenol		1 mg/kg to 5 mg/kg
		2,6 Dichloro Phenol		1 mg/kg to 5 mg/kg
		3,4-Dichloro Phenol		1 mg/kg to 5 mg/kg
		3,5-Dichloro Phenol		1 mg/kg 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
		Trichlorinated Phenols (sum)		
		2,3,4Trichloro Phenol		1 mg/kg to 5mg/kg
		2,3,5Trichloro Phenol		1 mg/kg to 5mg/kg
		2,3,6Trichloro Phenol		1 mg/kg to 5mg/kg
		2,4,5 Trichloro Phenol		1 mg/kg to 5mg/kg
		2,4,6 Trichloro Phenol		1 mg/kg to 5mg/kg
		3,4,5Trichloro Phenol		1 mg/kg to 5mg/kg
		Tetrachlorinated Phenols (sum)		
		2,3,4,5 Tetra chloro Phenol		0.05 mg/kg to 1mg/kg
		2,3,4,6Tetra chloro Phenol		0.05 mg/kg to 1mg/kg
		2,3,5,6Tetra chloro Phenol		0.05 mg/kg to 1mg/kg
		Pentachloro Phenol		0.05 mg/kg to 1mg/kg
		Ortho Phenyl Phenol		0.05 mg/kg to 1mg/kg
		Extractable Heavy Metals	EN ISO 17072-1:2011	
		Copper		0.25 mg/kg to 2.5 mg/kg
		Cadmium		0.25 mg/kg to 2.5 mg/kg
		Arsenic	ECTM 14,issue no.2, dated:17-11-2017	0.25 mg/kg to 2.5 mg/kg
		Nickel	EN ISO 17072-1:2011	0.25 mg/kg to 2.5 mg/kg
		Lead	EN ISO 17072-1:2011	0.25 mg/kg to 2.5 mg/kg
		Antimony		0.25 mg/kg to 2.5 mg/kg
		Cobalt		0.25 mg/kg to 2.5 mg/kg
		Mercury	ECTM 14,issue no.2, dated:17-11-2017	0.25 mg/kg to 2.5 mg/kg
		Selenium	EN ISO 17072-1:2011	00.25 mg/kg to 2.5 mg/kg
		Tin		0.25 mg/kg to 2.5 mg/kg
		Chromium		0.25 mg/kg to 2.5 mg/kg
		pH Value	ISO 4045:2008	R:2 to 13 LOQ:2

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Short Chain Chlorinated Paraffins (SCCP)	CADS methodV8 Final 2017	1 mg/kg to 50 mg/kg
		Medium Chain Chlorinated Parrafins (MCCP)	CADS methodV8 Final 2017	250 mg/kg to 1000mg/kg
		Dimethyl Fumarate	CEN ISO/ TS16186:2012(E)	R0.04 mg/kg to 20 mg/kg
		Poly Aromatic Hydrocarbons (PAH)	ECTM 18:2015,ISSUE 2, DATED 1/07/2016	
		Naphthalene (91-20-3)		5 mg/kg to 25 mg/kg
		Acenaphthylene (208-96-8)		2.5 mg/kg to 25 mg/kg
		Acenaphthene(83-32-9)		2.5 mg/kg to 25 mg/kg
		Fluorene(86-73-7)		5 mg/kg to 50 mg/kg
		Phenanthrene (1517-22-2)		50 mg/kg to 300 mg/kg
		Anthracene (120-12-7)		25 mg/kg to 100 mg/kg
		Fluoranthene (206-44-0)		25 mg/kg to 300 mg/kg
		Pyrene (129-00-0)		25 mg/kg to 250 mg/kg
		Benzo(a) anthracene (56-55-3)		25 mg/kg to 200 mg/kg
		Chrysene (218-01-9)		25 mg/kg to 250 mg/kg
		Benzo(b) fluoranthene (205-99-2)		25 mg/kg to 100 mg/kg
		Benzo(j) fluoranthene (205-82-3)		25 mg/kg to 100 mg/kg
		Benzo(k) fluoranthene (207-08-9)		10 mg/kg to 50 mg/kg
		Benzo(a) pyrene (50-32-8)		25 mg/kg to 100 mg/kg
		Indeno (1,2,3-cd) pyrene (193-39-5)		10 mg/kg to 50 mg/kg
		Dibenzo(a,h)anthracene (189-64-0)		5 mg/kg to 25 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Benzo(g,h,i) perylene (191-24-2)		25 mg/kg to 100 mg/kg
		Benzo(e) pyrene (192-97-2)		25 mg/kg to 100 mg/kg
		Cyclopenta(c,d) pyrene (27208-37-3)		5 mg/kg to 25 mg/kg
		1-methyl pyrene		25 mg/kg to 100 mg/kg
		Dibenzo(a,h) pyrene (189-64-0)		5 mg/kg to 25 mg/kg
		Dibenzo(a,l) pyrene (191-30-0)		5 mg/kg to 25 mg/kg
		Dibenzo(a,i) pyrene (189-55-9)		5 mg/kg to 25 mg/kg
		Dibenzo(a,e) pyrene (192-65-4)		5 mg/kg to 25 mg/kg
		Odour	SOP-CG-200 (Based on SNV 19651)-2015	Qualitative
		Chromium VI	ISO 17075-1:2017	3 mg/kg to 75 mg/kg
		Organotin Compounds	ISO/TS 16179:2012	
		n-butyltintrichloride (1118-46-3)		0.5 mg/kg to 5 mg/kg
		n-octyltintrichloride (3091-25-6)		0.5 mg/kg to 5 mg/kg
		Di-n-butyltindichloride (683-18-1)		0.5 mg/kg to 5mg/kg
		Di-n-octyltindichloride (3542-36-7)		0.5 mg/kg to 5 mg/kg
		Tri-n-butyltinchloride (1461-22-9)		0.5 mg/kg to 5 mg/kg
		Triphenyltin chloride (or phentin chloride) (639-58-7)		0.5 mg/kg to 5 mg/kg
		Tricyclohexyltin chloride (3091-32-5)		0.5 mg/kg 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
		Tetra-n-butyltin (1461-25-2)		05 mg/kg to 5 mg/kg
		Phthalates	CPSC-CH-C1001-09.4, Jan, 2018	
		Benzyl butyl phthalate (99-55-8)		0.05 to 0.5%
		Di-butyl phthalate (84-74-2)		0.005 % to 0.05%
		Bis-2-ethyl hexyl phthalate (117-81-7)		0.05 % to 0.5%
		Di-iso-nonyl phthalate (68515-48-0)		0.05 % to 1%
		Di-iso-butyl phthalate		0.005% to 0.1%
		Di-n-hexyl phthalate		0.005% to 0.05%
		Di-cyclohexyl phthalate		0.005% to 0.05%
		Di-pentyl phthalate		0.005% to 0.05%
		Phthalates	ISO 14389:2014	
		Benzyl butyl phthalate (99-55-8)		0.03 % to 0.5%
		Di-butyl phthalate (84-74-2)		0.005 % to 0.05%
		Bis-2-ethyl hexyl phthalate (117-81-7)		0.01 % to 0.5%
		Di-n-octyl phthalate (117-84-0)		.005 % to 0.05%
		Di-iso-nonyl phthalate (68515-48-0)		0.05 % to 0.5%
		Di-iso-decyl phthalate (26761-40-0)		0.05 % to 0.5%
		Di-iso-butyl phthalate. (84-69-5)		0.005 % to 0.1%
		Di-methoxyethyl phthalate (117-82-8)		0.005 % to 0.1%
		Di-pentyl phthalate (131-18-0)		0.005 % to 0.3%

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Di-isoheptyl phthalate (71888-89-6)		0.005 % to 0.05%
		Di-n-hexyl phthalate (84-75-3)	ECTM-21,ISSUE NO.1, DATED 30-1-2016	0.005 % to 0.05%
		Bis-4-methyl pentyl phthalate (71850-09-4)	ISO 14389:2014	0.003 % to 0.01%
		Di-iso-hexyl phthalate (68515-50-4)	ECTM-21,ISSUE NO.1, DATED 30-1-2016	0.003 % to 0.3%
		Di-C7-11-branched alkylphthalates (68515-42-4)	ISO 14389:2014	0.05 % to 0.05%
		Total Heavy Metals		
		Lead (Pb) (For Metallic products)	CPSC-CH-E1001-08.3, Nov 15, 2012	50 mg/kg to 5000 mg/kg
		Lead (Pb) (For Non-Metallic products)	CPSC-CH-E1002-08.3, Nov 15, 2012	25 mg/kg to 500 mg/kg
		Total Heavy Metals	ECTM-09:2015,ISSUE NO.2,DATED5/05/2016	
2.	**Metals, Alloys and Accessories**	Arsenic (As)	ECTM-09:2015,ISSUE NO.2,DATED5/05/2016	25 mg/kg to 100 mg/kg
		Antimony (Sb)		500 mg/kg to 50000 mg/kg
		Lead (Pb)		50 mg/kg to 300 mg/kg
		Cadmium (Cd)		50 mg/kg to 500 mg/kg
		Copper (Cu)		25 mg/kg to 200 mg/kg
		Chromium (Cr)		25 mg/kg to 100 mg/kg
		Cobalt (Co)		50 mg/kg to 200 mg/kg
		Nickel (Ni)		25 mg/kg to 100 mg/kg
		Iron (Fe)		25 mg/kg to 2500 mg/kg
		Selenium (Se)		25 mg/kg to 100 mg/kg
		Tin (Sn)		5 mg/kg to 200 mg/kg
		Zinc (Zn)		5 mg/kg to 200 mg/kg
		Barium (Ba)		5 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
		Manganese (Mn)		5 mg/kg to 200 mg/kg
		Silver (Ag)		5 mg/kg to 200 mg/kg
		Mercury (Hg)		0.005 mg/kg to 90 mg/kg
		Alkyl phenol(AP)	ECTM 17:2015 Issue No.:02, dated 12/04/2018	
		4-octyl Phenol CAS No.(1806-26-4)		5 mg/kg to 50 mg/kg
		4-Nonyl Phenol CAS No. (84852-15-3)		5 mg/kg to 50 mg/kg
		Alkyl Phenol Ethoxylate (APEO)	ISO/FDIS-18218-1:2014	
		Octyl Phenol Ethoxylate (Triton X-100) (CAS No:9002-93-1)		1 mg/kg to 30 mg/kg
		Nonyl Phenol Ethoxylate (CAS No:68412-54-4)		1 mg/kg to 50mg/kg
		Screening test for Ni release	FD CR 12471 June 2002	Qualitative
		Nickel release	EN 1811:2011+A 1:2015 (E)	0.15 to 5 µg/cm^2/week
		Extractable Nickel	ECTM-14:2015,ISSUE NO.2, DATED17/11/2017	0.5 mg/kg to 10 mg/kg
		Total Heavy Metals Lead (Pb) (Metal products)	CPSC-CH-E1001-08.3, Nov 15, 2012	25 mg/kg to 500 mg/kg
		Total Heavy Metals		
		Lead (Pb)	ECTM-09:2015, ISSUE NO.2 DATED 5/05/2016	0.05 mg/kg to 100 mg/kg
		Arsenic (As)		500 mg/kg to 5000 mg/kg
		Antimony (Sb)		1 mg/kg to 300 mg/kg
		Cadmium (Cd)		50 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
		Copper (Cu)		10 mg/kg to 200 mg/kg
		Chromium (Cr)		1 mg/kg to 100 mg/kg
		Cobalt (Co)		10 mg/kg to 200 mg/kg
		Nickel (Ni)		1 mg/kg to 100 mg/kg
		Iron (Fe)		0.5 mg/kg to 2500 mg/kg
		Selenium (Se)		0.5 mg/kg to 100 mg/kg
		Tin (Sn)		5 mg/kg to 200 mg/kg
		Zinc (Zn)		5 mg/kg to 200 mg/kg
		Barium (Ba)		5 mg/kg to 200 mg/kg
		Silver (Ag)		0.005 mg/kg to 90 mg/kg
		Mercury (Hg)		0.05 mg/kg to 100 mg/kg
		Manganese (Mn)		5 mg/kg to 200 mg/kg
III.	**INK, DYES AND PIGMENT**			
1.	**Ink, Dyes and Pigment**	Free Formaldehyde	ISO 17226-1:2009	20 mg/kg to 1000 mg/kg
		Total Heavy Metals	ECTM-09:2015,ISSUE No.2, dated 5/5/2016	
		Zinc (Zn)		1 mg/kg to 1500 mg/kg
		Iron (Fe)		1 mg/kg to 1500 mg/kg
		Manganese (Mn)		1 mg/kg to 1500 mg/kg
		Lead (Pb)		1 mg/kg to 200 mg/kg
		Silver (Ag)		1 mg/kg to 200 mg/kg
		Barium (Ba)		5 mg/kg to 200 mg/kg
		Copper (Co)		1 mg/kg to 200 mg/kg
		Chromium(Cr)		1.0 mg/kg to 100 mg/kg
		Cobalt(Co)		10 mg/kg to 200 mg/kg
		Mercury (Hg)		1 mg/kg to 10 mg/kg
		Antimony (Sb)		1 mg/kg to 100 mg/kg
		Arsenic (As)		1 mg/kg to 100 mg/kg
		Cadmium (Cd)		1 mg/kg to 50 mg/kg
		Selenium (Se)		1 mg/kg to 25 mg/kg
		Alkyl phenols (AP)	ECTM 17:2015 Issue No.:02, dated 12/04/2018	

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		4-octyl Phenol CAS No.(1806-26-4)		5 mg/kg to 50 mg/kg
		2) 4-Nonyl Phenol CAS No. (84852-15-3)		5 mg/kg to 50 mg/kg
		Alkyl Phenol Ethoxylate (APEO)	ISO/FDIS-18218-1:2014	
		Octyl Phenol Ethoxylate (Triton X-100) (9002-93-1)		1 mg/kg to 30 mg/kg
		Nonyl Phenol ethoxylate(68412-54-4)		10 mg/kg to 50 mg/kg
		Banned Amines/ CAS No.	i) EN-14362-1:2017	
		4-aminobiphenyl (92-67-1)		10 mg/kg to 50mg/kg
		Benzidine (92-87-5)		5 mg/kg to 50mg/kg
		4-chloro-o-toluidine (95-69-2)		10 mg/kg to 50mg/kg
		2-naphthyl amine (91-59-8)		5 mg/kg to 40mg/kg
		O-Amino azotoluene (97-56-3)		10 mg/kg to 40mg/kg
		5-nitro-o-toluidine (99-55-8)		10 mg/kg to 50mg/kg
		4-chloroaniline (106-47-8)		10 mg/kg to 50mg/kg
		4-methoxy-m-phenylenediamine (615-05-4)		10 mg/kg to 75mg/kg
		4, 4'-diamino diphenyl methane (101-77-9)		10 mg/kg to 50mg/kg
		3,3'-dichloro benzidine (91-94-1)		10 mg/kg to 75mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		3,3'-dimethoxy benzidine (119-90-4)		10 mg/kg to 50mg/kg
		3,3'-dimethyl benzidine (119-93-7)		10 mg/kg to 40mg/kg
		4,4'-methylenedi-o-toluidine(838-88-0)		10 mg/kg to 400mg/kg
		p-Cresidine (120-71-8)		10 mg/kg to 40mg/kg
		4,4'-methylene-bis-(2-chloro-aniline) (101-14-4)	EN-14362-1:2017	10 mg/kg to 50mg/kg
		4,4'-oxydianiline (101-80-4)		10 mg/kg to 60mg/kg
		4,4'-thiodianiline (139-65-1)		10 mg/kg to 50mg/kg
		o-toluidine (95-53-4)		15 mg/kg to 50mg/kg
		4-methyl-m-phenylenediamine (95-80-7)		5 mg/kg to 30mg/kg
		2,4,5-trimethylaniline (137-17-7)		10 mg/kg to 60mg/kg
		o-anisidine(90-04-0)		15 mg/kg to 50mg/kg
		2,4-xylidine (95-68-1)		10 mg/kg to 40mg/kg
		2,6-xylidine(87-62-7)		10 mg/kg to 60mg/kg
		5-Chloro 2-methylaniline (95-79-4)		5 mg/kg to 35mg/kg
		p-phenylenediamine (106-50-3)		5 mg/kg to 35mg/kg
		N, N' Dimethyl aniline (121-69-7)		5 mg/kg to 35mg/kg
		Aniline (62-53-3)		5 mg/kg to 50mg/kg
		4-amino azobenzene (60-09-3)	ii) EN-14362-3:2017	5 mg/kg to 75mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
IV.	**PLASTIC & RESINGS**			
1.	**Plastic**	**Phthalates**	CPSC-CH-C1001-09.4, Jan, 2018	
		Benzyl butyl phthalate (99-55-8)		0.05 to 0.5%
		Di-butyl phthalate (84-74-2)		0.005 % to 0.05%
		Bis-2-ethyl hexyl phthalate (117-81-7)		0.05 % to 1%
		Di-iso-nonyl phthalate (68515-48-0)		0.03 % to 0.5%
		Di-iso-butyl phthalate		0.005% to 0.1%
		Di-n-hexyl phthalate		0.005% to 0.05%
		Di-cyclohexyl phthalate		0.005% to 0.05%
		Di-pentyl phthalate		0.005% to 0.05%
		Phthalates	ISO 14389:2014 ECTM-21,ISSUE NO.1, DATED 30-1-2016	
		Benzyl butyl phthalate (99-55-8)		0.01 % to 0.5%
		Di-butyl phthalate (84-74-2)		.005 % to 0.05%
		Bis-2-ethyl hexyl phthalate (117-81-7)		0.05 % to 0.5%
		Di-n-octyl phthalate (117-84-0)		0.05 % to 0.5%
		Di-iso-butyl phthalate (84-69-5)		0.05 % to 1%
		Di-iso-nonyl phthalate (68515-48-0)		0.005 % to 0.1%
		Di-iso-butyl phthalate. (84-69-5)		0.005 % to 0.1%
		Di-methoxyethyl phthalate (117-82-8)		0.005 % to 0.1%
		Di-pentyl phthalate (131-18-0)		0.005 % to 0.05%

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Di-isoheptyl phthalate (71888-89-6)		0.005 % to 0.05%
		Di-n-hexyl phthalate (84-75-3)		0.005 % to 0.05%
		Bis-4-methyl pentyl phthalate (71850-09-4)		0.003 % to 0.01%
		Di-iso-hexyl phthalate (68515-50-4)		0.003 % to 0.01%
		Di-C7-11-branched alkylphthalates (68515-42-4)		0.05 % to 0.05%
		Short Chain Chlorinated Paraffins (SCCP)	ECTM-19:2015, ISSUE NO.2 DATED 8/6/2018	25 mg/kg to 2000 mg/kg
		Medium Chain Chlorinated Parrafins (MCCP)	ECTM-19:2015, ISSUE NO.2 DATED 8/6/2018	250 mg/kg to 1000 mg/kg
		Dimethyl Fumarate	CEN ISO/ TS16186:2012(E)	0.04 mg/kg to 20 mg/kg
		Poly Aromatic Hydrocarbons (PAH)	ZEK-01-08:2008	
		Naphthalene(91-20-3)		5 mg/kg to 25 mg/kg
		Acenaphthylene (208-96-8)		2.5 mg/kg to 25 mg/kg
		Acenaphthene(83-32-9)		2.5 mg/kg to 25 mg/kg
		Fluorene(86-73-7)		5 mg/kg to 50 mg/kg
		Phenanthrene (1517-22-2)		50 mg/kg to 300 mg/kg
		Anthracene(120-12-7)		25 mg/kg to 100 mg/kg
		Fluoranthene(206-44-0)		25 mg/kg to 300 mg/kg
		Pyrene (129-00-0)		25 mg/kg to 250 mg/kg
		Benzo (a)anthracene (56-55-3)		25 mg/kg to 200 mg/kg
		Chrysene (218-01-9)		25 mg/kg to 250 mg/kg

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Benzo (b) fluoranthene (205-99-2)		25 mg/kg to 100 mg/kg
		Benzo (j)fluoranthene (205-82-3)		25 mg/kg to 100 mg/kg
		Benzo (k)fluoranthene (207-08-9)		10 mg/kg to 50 mg/kg
		Benzo (a)pyrene(50-32-8)		25 mg/kg to 100 mg/kg
		Indeno(1,2,3-cd)pyrene (193-39-5)		10 mg/kg to 50 mg/kg
		Dibenzo (a,h)anthracene (189-64-0)		5 mg/kg to 25 mg/kg
		Benzo (g,h,i) perylene(191-24-2)		25 mg/kg to 100 mg/kg
		Benzo (e)pyrene (192-97-2)		25 mg/kg to 100 mg/kg
		Cyclopenta (c,d)pyrne(27208-37-3)		5 mg/kg to 25 mg/kg
		Dibenzo(a,h) pyrene (189-64-0)		25 mg/kg to 100 mg/kg
		Dibenzo(a,l) pyrene (191-30-0)		5 mg/kg to 25 mg/kg
		Dibenzo(a,i) pyrene (189-55-9)		5 mg/kg to 25 mg/kg
		Dibenzo(a,e) pyrene (192-65-4)		5 mg/kg to 25 mg/kg
		1-Methyl pyrene (2381-1-7)		5 mg/kg to 25 mg/kg
		Organotin Compounds	ECTM-16,Issue No.2, dated 12 April 2018	
		Di-n-butyltindichloride (683-18-1)		0.2 mg/kg to 5 mg/kg
		Di-n-octyltindichloride (3542-36-7)		0.2 mg/kg 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
		Tri-n-butyltinchloride (1461-22-9)		0.2 mg/kg to 5 mg/kg
		Triphenyltin chloride (or phentin chloride) (639-58-7)		0.2 mg/kg to 5 mg/kg
		N, N-Dimethyl Formamide	CEN ISO/TS 16189:July 2013(E)	10 mg/kg to 2000 mg/kg
		Alkyl phenols (AP)	ECTM 17:2015 Issue No.:02, dated 12/04/2018	
		4-octyl Phenol CAS No.(1806-26-4)		5 mg/kg to 50 mg/kg
		4-Nonyl Phenol CAS No. (84852-15-3)		5 mg/kg to 50 mg/kg
		Alkyl Phenol Ethoxylate (APEO)	ISO/FDIS-18218-1:2014	
		Octyl Phenol Ethoxylate (Triton X-100) (CAS No:9002-93-1)		1 mg/kg to 30 mg/kg
		Nonyl Phenol Ethoxylate (CAS No:68412-54-4)		1 mg/kg to 50 mg/kg
		Total Heavy Metals Lead (Pb)	CPSC-CH-E1002-08.3, Nov 15, 2012	1 mg/kg to 2500 mg/kg
		Total Heavy Metals Arsenic (As)	ECTM-09:2015, ISSUE NO.2, DATED 5/5/2016	0.05 mg/kg to 100 mg/kg
		Antimony (Sb)		500 mg/kg to 5000 mg/kg
		Lead (Pb)		1 mg/kg to 300 mg/kg
		Cadmium (Cd)		50 mg/kg to 500 mg/kg
		Copper (Cu)		10 mg/kg to 200 mg/kg
		Chromium (Cr)		1 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
		Cobalt (Co)		10 mg/kg to 200 mg/kg
		Nickel (Ni)		1 mg/kg to 100 mg/kg
		Iron (Fe)		0.5 mg/kg to 2500 mg/kg
		Selenium (Se)		0.5 mg/kg to 100 mg/kg
		Tin (Sn)		5 mg/kg to 200 mg/kg
		Zinc (Zn)		5 mg/kg to 200 mg/kg
		Barium (Ba)		5 mg/kg to 200 mg/kg
		Manganese (Mn)		5 mg/kg to 200 mg/kg
		Silver (Ag)		5 mg/kg to 200 mg/kg
		Mercury (Hg)		0.005 mg/kg to 90 mg/kg
2.	**Transformer oil**	Poly chlorinated Biphenyls(PCB)	ASTM D 4059-00:2010	0.01 mg/kg to 5 mg/kg
		Poly chlorinated Biphenyls (PCB)	DIN 51527:1987	0.01 mg/kg to 5 mg/kg

Laboratory	**Ecological Laboratories Pvt. Ltd., A-373, T.T.C. Industrial Area, Mahape, Navi Mumbai, Maharashtra**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**TC-7849** ***(in lieu of T-1325 & T-1326)***	**Page 35 of 36**	
Validity	**06.09.2018 to 05.09.2020**	**Last Amended on 14.12.2018**	

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

MECHANICAL TESTING

I.	**TEXTILE (WOVEN & NON WOVEN)**			
1.	**Textiles: Fabric/ Garment**	Yarn number based on short length specimen	ECO IHM-01 : 2015	4 Tex to 12 Tex (5 Ne to 150 Ne)
		Fabric width & length	ASTM D3774-96 (2016) IS 1954:1990	1cm to160cm
		Woven fabric construction -number of threads per unit length	ISO 7211/2 :1984 ASTM D3775:2017	4 to 120 threads/cm (10 to 300 threads/inch)
		Weft knitted fabric construction	BS 5441:1988 ASTM D 3887:2008 ASTM D8007-15	10 to 250 Wales or courses/cm (4 to 100 Wales or courses/inch)
		Mass per unit area - Using small samples	ISO 3801:1977 Method 5 (Woven) IS 1964:2001 ASTM D 3776/09a 2017 BS EN 12127:1998 (knits)	20 to 1000 g/m^2
		Properties of fabrics-part-I: Tear using ballistic pendulum method	ISO 13937-1:2000, Cor. 1:2004 ASTM D 1424:09 (2013) IS 6489-1:2011	300g to 6000g
		Fabric propensity to surface fuzzing and to pilling –Part-1: Pilling box method	ISO 12945-1: 2000 IS 10971-1:2011	Grade 1 to 5 Qualitative
		Fabric propensity surface fuzzing and to pilling-Part-2 : Modified Martindale Method	ISO 12945-2: 2000 IS 10971-2:2011 ASTM D 4970:2016	Grade:1 to 5 Qualitative

Battal Singh
Convenor

N. Venkateswaran
Program Manager

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Abrasion resistance of fabrics by martindale method Part 2 : Determination of specimen breakdown	ISO 12947-1 and 2:2016 IS 12673: point 1 and 2-2014 ASTM D 4966:12 (2016)	100 rubs to 40000 rubs
		Maximum Breaking force using the strip method.	ISO 13934-1:2013 IS 1969 (Part 1) 2009 ASTM D 5035-11 (2015)	50 N to 2000N
		Maximum force using the grab method	ISO 13934-2-2014 IS 1969 (Part 2) 2009 ASTM D 5034-09 (2017)	50 N to 2000N
		Tear strength (Wing Rip)	ISO 13937-3-2000	50 N to 2000N
		Tear strength Trouser shape (Single Rib)	ISO13937-2 (2000)	50 N to 2000N
		Children's Clothing - cords and drawstrings	EN 14682:2014	0.5 cm to 100 cm
2.	**Leather and Related Products**	Tensile Strength	IS 5914-1970 (LP:6)	50 N to 2000N
		Thickness of test pieces	IS 5914-1970 (LP:1)	0.3 mm to 24 mm
		Width	IS 5914-1970 (LP:3)	0.3 mm to 2000 mm
		Measurement of Tongue Tear Strength	IS 5914-1970 (LP:9)	50 N to 2000N
		Flexing Endurance	IS 5914-1970 (LP:10)	Visual Observation (Qualitative)