



# ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006  
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

**ITS Labtest Bangladesh Ltd.**

**Phoenix Tower (2nd & 3rd Floor)**

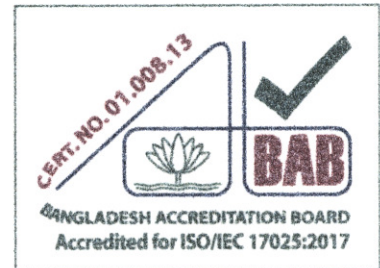
**407, Tejgaon Industrial Area, Dhaka-1208, Bangladesh**

This is to certify that this  
**Testing Laboratory**

is accredited in accordance with the international standard  
**ISO/IEC 17025:2017**

in respect of the associated scope, subject to the terms and  
conditions governing the relevant conformity assessment  
body (CAB) accreditation.

Certificate Number : **01.008.13**  
Accreditation Date : **26 November 2013**  
Date of Issuance : **19 January 2022**  
Date of Expiration : **25 November 2024**



  
**Md. Monwarul Islam**  
**Director General**

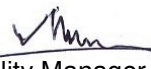
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## SCOPE OF ACCREDITATION

(For Testing Laboratory)

<b>CAB Name &amp; Address:</b>	ITS Labtest Bangladesh Ltd., Dhaka Lab Phoenix Tower (2nd & 3rd Floor), 407, Tejgaon, Dhaka-1208		
<b>Accreditation Standard:</b>	ISO/IEC 17025:2017	<b>Accreditation Date:</b>	26 November 2013
<b>Certificate Number:</b>	01.008.13	<b>Issued on:</b>	19 January 2022
<b>Last Amended on:</b>	25 August 2022	<b>Valid until:</b>	25 November 2024
<b>Amendment no:</b>	01		

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
<b>FIELD: CHEMICAL INCLUDING ANALYTICAL TESTS</b>				
<b>I. TEXTILE (WOVEN &amp; NONWOVEN)</b>				
1	A. Yarns & Cords	Colour Fastness to Washing and laundering	BS EN ISO 105 C06- 2010 ISO 105 C06- 2010 ISO 105 C08- 2010	Grade: 1-5 ±0.5 grade
	B. Finished Fabric		BS EN ISO 105 C10- 2007 ISO 105 C10- 2006 DIN EN ISO 105 C06- 2010	
	C. Apparels/ Garments		AATCC TM61-2013e(2020) AS 2001.4.15-2006 (R2016) JIS L 0844- 2011	
	D. Made- ups		GB/T 3921- 2008 GB/T 12490- 2014	
	E. Terry Fabrics & its products		CAN/CGSB-4.2 No 19.1- 2004 (R2013) CAN/CGSB 4.2 No. 19.2- 2003	
2	A. Yarns & Chords	Fiber Composition (composition in weight %)	ISO 1833 Part- 1, 2, 3, 12, 18, 22- 2020,	0.5 to 100%
	B. Grey Fabric		5, 8- 2006,	
	C. Finished Fabric		6, 20- 2018,	
	D. Apparels/ Garments		Part- 10, 14, 16, 17, 21- 2019	
	E. Made- ups		Part-4, 7, 11- 2017	
	F. Terry Fabrics & its		BS EN ISO 1833 Part- 1, 2, 3, 12, 17, 18-	

  
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products	2020, 5,8- 2010, 22- 2021 Part- 6, 10, 14, 16, 20, 21- 2019 Part-4, 7, 11- 2017 AATCC TM20A- 2020 AS 2001.7- 2005 (R2016) GBT/T- 2009 (2910.1, 2910.4, 2910.6, 2910.8, 2910.11, 2910.12, 2910.20, 2910.22) CAN/CGSB 4.2 No. 14- 2005
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## II. HAZARDOUS AND RESTRICTED CHEMICALS

3	A. Textile & Textile Products	Banned aryl amines from Azo dyes	EN 14362 part-1-2017 EN 14362 part-3-2017 GB/T 17592- 2011	5 to 1000 mg/kg  MDL: 0.5 mg/L
	B. Paints	o-Toluidine (95-53-4); 2-Methoxyaniline (90-04-0); p-Chloroaniline (106-47-8);		
	C. Prints	p-Kresidine (120-71-8); 2,4,5-Trimethylaniline(137-17-7); 4-Chloro-o-Toluidine (95-69-2); 2,4-Toluylenediamine (95-80-7); 2,4-Diaminoanisol (615-05-4); 2-Naphthylamine (91-59-8); 2-Amino-4-Nitrotoluene (99-55-8); 4-Aminodiphenyle (92-67-1); 4,4'-Oxydianiline (101-80-4); Benzidine (92-87-5); 4,4'-Diaminodiphenylmethane (101-77-9); o-Aminoazotoluene (97-56-3); 3,3'-Dimethyl-4,4'-Diaminodiphenylmethane (838-88-0); 3,3'-Dimethylbenzidine (119-93-7); 4,4'-Thiodianiline (139-65-1); 3,3'-Dichlorobenzidine (91-94-1); 4,4'-Methylene-bis-(2-Chloroaniline) (101-14-4); 3,3'-		

  
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Dimethoxybenzidine (119-90-4);  
 2,4-Xylidine (95-68-1);  
 2,6-Xylidine (87-62-7);  
 P-Aminoazobenzene (60-09-3);  
 4-chloro-o-toluidinium chloride(3165-93-3) ;  
 2-Naphtylammoniumacetate (553-00-4) ;  
 4-methoxy-m-phenylene diammonium sulphate (39156-41-7) ;  
 2,4,5-trimethylaniline hydrochloride (21436-97-5) ;  
 Aniline (62-53-3)

4	A. Textile & Textile Products B. Paints C. Prints D. Leather Products	Determination of APEOs & APs content Nonylphenoethoxylates (NPEOs) Octylphenoethoxylates (OPEOs) NP (Nonylphenol) OP (Octylphenol)	Harmonized SOP: C017.TP, I-4 (May'2019) BS EN ISO 18254-1-2016 EN ISO 18218-1- 2015 EN ISO 21084- 2019	5 to 5000 mg/kg MDL: 0.2 mg/L
5	A. Textile & Textile Products B. Leather Products	Cationic Surfactants Distearyl dimethyl ammonium chloride (DSDMAC); Ditalow dimethyl ammonium chloride (DTDMAC); Dehydrogenated tallow dimethyl ammonium chloride (DHTDMAC)	In House Method SOP No.: SOP/AM/018, I-1, R-2 Harmonized SOP:: C037.TP-I-1 US EPA Method 3550C:2007	10 to 5000 mg/kg LOD: 0.50 mg/L
6	A. Textile & Textile Products B. Leather Products	Chloroparaffins (SCCP & MCCP) Short chained (SCCPs) C10-C13; Medium chained (MCCPs) C14-C17	Harmonized SOP: C023.TP, I-4 ISO 18219- 2015 DIN EN ISO 18219- 2016-02 ISO 22818:2021 (SCCP + MCCP) (Textile) ISO 18219-1:2021 (SCCP) ISO 18219-2:2021 (MCCP) (Leather)	10 to 5000 mg/kg LOD: 1.0 mg/L

  
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7	A. Textile & Textile Products B. Leather Products	Per fluorinated Carbons (PFCs) EtFOSE; PF-3,7-DMOA; PFUdA; 1H,1H,2H,2H-PFOS;; PFDoA; MeFOSA; PFOA; PFDA; H4PFUnA; PFNA; PFTeDA; EtFOSA; 4HPFUnA ; PFTrDA; PFOSA; PFOS; 7H-Dodecanefluoroheptane Acid; 2H,2H-Perfluorodecane carboxylate; 1H,1H,2H,2H Perfluorooctanesulphonic acid; HPFHpA; PFPeA; PFHxA; PFHxS; PFBA; PFBS; PFHpA; PFHpS; 6:2 FTOH; 4:2 FTOH; 10:2 FTOH; 8:2 FTOH; 6:2 FTA; 10:2 FTA; 8:2 FTA	Harmonized SOP: C016.TP, I-9 CEN/TS 15968- 2014 ISO 23702-1- 2018(E)	1 to 1000 mg/kg LOD: 1 mg/L
8	A. Textile & Textile Products B. Leather Products	Total Heavy Metals Content	In House Method SOP No: SOP/AM/003, I-1, R-4  USEPA 3051A (modified) USEPA 3052 (modified) CPSC-CH-E1001-08.3 CPSC-CH-E1002-08.3 CPSC-CH-E1003-09.1 ASTM E1645- 2021 BS-EN 16711-1: 2015  ISO 17072-2:2019	1 to 5000 mg/kg LOD: 0.10 mg/L
9	A. Textile & Textile Products B. Leather Products	Flame Retardant	Harmonized SOP: C019 TP I-1 Harmonized SOP: C050 TP I-2 ISO 17881-1: 2016 ISO 17881-2:2016	5-1000 mg/Kg MDL: 10 µg/l
10	A. Textile & Textile Products B. Leather Products	Thiourea	Harmonized SOP: C068 TP I -1	50-1000 mg/kg MDL:50 mg/kg
11	A. Textile & Textile Products B. Leather Products	Permethrin	Harmonized SOP: C066 TP I-2  USEPA 8270E Solvent extraction, followed by GC-MS ISO 14154:2005	250-1000 mg/kg MDL:0.5 mg/L

  
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12	A. Textile & Textile Products B. Leather Products	Bisphenols Bisphenol-A (CAS:80-05-7) Bisphenol-S (CAS:80-09-1) Bisphenol-F (CAS:620-92-8) Bisphenol AF (CAS:1478-61-1) Bisphenol B (CAS:77-40-7)	Harmonized SOP: C011 TP I - 6  AFIRM RSL Testing	0.1-100 mg/kg MDL: 0.1 mg/L
13	A. Textile & Textile Products B. Leather Products	Styrene	In House SOP, SOP/AM/049, Issue-01  AFIRM RSL Testing	50-1000 mg/kg MDL: 1 mg/L
14	A. Textile & Textile Products B. Leather Products	AEAA [2-(2-aminoethylamino)ethanol ]	Harmonized SOP: C069.TP, I- 2  Tran et al.: JOURNAL of AOAC INTERNATIONAL, Vol, 97, No. 1, 2014	50-1000 mg/kg MDL: 0.1 mg/L
15	A. Textile & Textile Products B. Leather Products	UV Absorbers / Stabilizers	Harmonized SOP: C070.TP, I- 1  DIN EN 62321-6:2016-05 (Extraction in THF, analysis by GC/MS)	100-1000 mg/kg MDL: 0.5 mg/L
<b>III. WASTE WATER :</b>				
16	Wastewater	Total Suspended Solids ( TSS)	USEPA -160.2 :1971, SM2540D(23 <sup>rd</sup> Edition)	4-10000 mg/L LOD= 4 mg/L
17	Wastewater	Biological Oxygen Demand ( BOD)	SM 5210B (23 <sup>rd</sup> Edition), SM -5210D (23 <sup>rd</sup> Edition) & USEPA 405.1 :1974	0.2-5000 mg/ L LOD= 0.2 mg/L
18	Wastewater	Chemical Oxygen Demand (COD)	USEPA 410.4 :1993, ISO 6060 :1989, SM 5220D (23 <sup>rd</sup> Edition), Validated Cuvette Method	4- 20000 mg/L LOD= 4 mg/L
19	Wastewater & Sludge	pH	USEPA-150.1 :1978 USEPA SW 9045D: 2004	0 to 14
20	Wastewater	Temperature [°C]	USEPA 170.1 :1974	0 -100 LOD: 0
21	Wastewater	Total Nitrogen	ISO 5663 :1984, USEPA 351.2 :1993, ISO 11905-1 :1997, SM 4500N-C (23 <sup>rd</sup> Edition)	0.5-100 mg/L LOD: 0.5 mg/L
22	Wastewater	Colour [m-1](436, 525, 620 nm)	ISO 7887-B :2011	0.1;0.1;0.1- 150; 150; 150 LOD: 0.1;0.1;0.1
23	Wastewater	Ammonium Nitrogen	ISO 11732 :2005, ISO 7150-1:1984, USEPA 350.1 :1993,	0.2 - 100 mg/L LOD: 0.2 mg/L

  
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SM 4500 NH3-F				
24	Wastewater	Total Phosphorus	ISO 11885 :2007, USEPA 200.8 : 1994	0.04 – 50 mg/L LOD: 0.04 mg/L
25	Wastewater	AOX	ISO 9562 :2004, USEPA 1650 :1997	0.06 -20 mg/L LOD: 0.06 mg/L
26	Wastewater	Oil and Grease	ISO 9377-2 :2000, USEPA 1664 revision B :2010	0.5-50 mg/L LOD: 0.5 mg/L
27	Wastewater	Phenol	ISO6439: 1990, SM 5530 B/C/D (23 <sup>rd</sup> Edition)	0.001-10 mg/L LOD:0.001 mg/L
28	Wastewater	Coliform [bacterial/100 ml]	ISO 9308-1 :2014, USEPA 9132 :1986	0 -5000 LOD: 0
29	Wastewater	Foam	Visual	NA
30	Wastewater & Sludge	Cyanide	ISO 6703-1,2,3 :1984, - USEPA 335.2 :1980, SM 4500-CN (23 <sup>rd</sup> Edition), USEPA 9013 :2014, USEPA 9014 :2014	Wastewater: 0.02-5 mg/L LOD: 0.02 mg/L Sludge: 1-50 mg/kg LOD: 1 mg/kg
31	Wastewater	Sulfide	ISO 10530 :1992, SM 4500-S2-D (23 <sup>rd</sup> Edition)	0.01-10.0 mg/L LOD:0.01 mg/L
32	Wastewater	Sulfite	USEPA 377.1 :1978, SM 4500-SO3 (23 <sup>rd</sup> Edition), ISO 10304-3: 1997	0.2-20 mg/L LOD:0.2 mg/L
33	Wastewater & Sludge	Glycols	USEPA 8270D,E:2018, ISO 22892 :2006	0.05-100 mg/L LOD:0.05 mg/L
34	Wastewater & Sludge	Halogenated Solvents	USEPA 8260B,D :1996, USEPA 5035A :1996, USEPA 5021A :2014, USEPA 8010B :1994	0.001-100 mg/L LOD: 0.001 mg/L
35	Wastewater & Sludge	Volatile Organic Compounds (VOC)	ISO 11423-1 :1997, USEPA 8270D :2014, USEPA 5035A :1996, USEPA 5021A :2014, USEPA 8260B,D :1996, DIN 38407-43 :2014	0.001-100 mg/L LOD: 0.001 mg/L
36	Wastewater & Sludge	Heavy Metals	ISO 11885 :2007, ISO 18412 :2005, USEPA 200.8 :1994, USEPA 6010c:2000, USEPA 6020a :1998, USEPA3060A	Wastewater: 0.00005-5000 mg/L LOD: (Sb, Total Cr, Co,

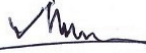
  
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			:1996, USEPA 7196 :1992, USEPA 3050 :1996, USEPA 6010D :2018, US EPA 6020B :2014, US EPA 3051A :2007, USEPA1311 :1992, and ICP-MS, ICP-OES and UV/VIS analysis	Ni, Ag, Zn, As, Cr(VI), Pb, Mn, Cu, Ba, Se, Sn)- 0.001mg/L (Cd)-0.0001mg/L (Hg)- 0.00005mg/L  Sludge: 0.2-5000 mg/Kg LOD: Total Cr, Co, Ni, Ag, Zn, Cr(VI), Mn, Cu, Ba, Sn)- 2mg/Kg,  (Cd, As, Pb, Se, Sb)- 0.1mg/Kg (Hg)- 0.05 mg/Kg
37	Wastewater	Total Dissolved Solids (TDS)	SM 2540-C (23 <sup>rd</sup> Edition), USEPA 160.1: 1971	1-5000 mg/L LOD: 1 mg/L
38	Wastewater	Electrical Conductivity	USEPA 120.1: 1982	2 -10000 $\mu$ S/cm LOD: 2 $\mu$ S/cm
39	Wastewater	Chloride	SM 4500-Cl <sup>-</sup> -B, E (23 <sup>rd</sup> Edition), ISO 10304-1 : 2007	10-1000 mg/L LOD: 10 mg/L
40	Wastewater	Sulfate	SM 4500-SO <sub>4</sub> <sup>2-</sup> -E (23 <sup>rd</sup> Edition), USEPA 375.4 : 1978, ISO 10304-1 : 2007	10-1000 mg/L LOD: 10 mg/L
41	Wastewater	Total Hydrocarbons	USEPA 1664-B : 2010, -SM 5520-F (23 <sup>rd</sup> Edition)	1-50 mg/L LOD: 1 mg/L
42	Wastewater	Carbon disulfide (CS <sub>2</sub> )	USEPA 8260B : 1996, ISO 15680 : 2003; ISO 11423-2 : 1997	0.1-10 mg/L LOD: 0.1 mg/L
43	Sludge	Dry Mass (Total Solids)	USEPA 160.3: 1971	1-100 % LOD: 1%
44	Wastewater	Dissolved Oxygen (DO)	EPA 360.1: 1971, SM 4500-O-G (23 <sup>rd</sup> Edition)	0-20mg/L
45	Wastewater	Total Chlorine	ISO 7393-2: 2018, EPA 330.5: 1978, SM 4500-Cl-G (23 <sup>rd</sup> Edition)	1-500mg/L
46	Sludge	Paint Filter Test	USEPA SW-846: 1996, USEPA 9095B: 2004	Qualitative
47	Wastewater	Flow rate	ZDHC Wastewater Guidelines	5-5000 m <sup>3</sup> /day
<b>FIELD: MECHANICAL TESTS</b>				
<b>TEXTILE MATERIALS</b>				
48	Fabric & Garment	Tensile Strength & Elongation- Strip Method	BS EN ISO 13934 -1- 2013 EN ISO 13934 -1 - 2013	10 N- 4.5 kN (2.2 -1011 lbs)

  
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			ISO 13934 -1- 2013	1% to 100%
			ASTM D 5035- 2011 (2019)	
			AS 2001.2.3.1- 2001 (R2016)	
			CAN/CGSB-4.2 No 9.1 M-90	
			(R 2013)	
			JIS L 1096- 2010/A 1- 2020	
			GB/T 21294-2014 Section	
			5.6	
			GB/T 3923.1-2013	
			CAN/CGSB -4.2 No. 9.6-	
			93(R2013)	
	Tensile Strength & Elongation- Grab Method		BS EN ISO 13934- 2 -2014	10 N- 4.5 kN
			EN ISO 13934- 2 -2014	
			ISO 13934- 2-2014	
			ASTM D 5034- 2021	10 N- 4.5 kN
			AS 2001.2.3.2-2001 (R 2016)	1% to 100%
			CAN/CGSB-4.2 No 9.2 M-90	
			(2013)	
			JIS L 1096- 2010/A 1- 2020	
			GB/T 3923.2-2013	
49	Tear Strength- Elmendorf		BS EN ISO 13937-1- 2000	1.6 N-115 N
			EN ISO 13937-1- 2000	(0.35-25.3 lb)
			ISO 13937-1- 2000	
			ASTM D 1424- 2021	
			AS 2001.2.8- 2001 (R2016)	
			CAN/CGSB-4.2 No 12.3-	
			2005(R2013)	
			JIS L 1096- 2010/A 1- 2020	
			GB/T 3917.1-2009	
	Tear Strength- Tensile		BS EN ISO 13937-2- 2000	10 N- 4.5 kN
			EN ISO 13937-2- 2000	(1.12 -1011 lbs)
			ISO 13937- 2- 2000	
			BS EN ISO 13937-3- 2000	
			EN ISO 13937-3- 2000	
			ISO 13937-3- 2000	
			BS EN ISO 13937-4- 2000	
			ASTM D 2261-2013 (R2017)	
			e1	
			JIS L 1096- 2010/A 1- 2020	
			GB/T 3917.2-2009	
			ASTM D 5587- 15 (R2019)	
50	Fabric & Garment	Dimensional stability to washing	BS EN ISO 6330- 2021	- 50% to 50%
			ISO 6330- 2021	
			BS EN ISO 5077- 2008	
			EN ISO 5077- 2008	
			ISO 5077- 2007	
			BS EN ISO 3759- 2011	
			ISO 3759- 2011	
			AATCC TM135- 2018t	

  
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AATCC TM150- 2018t  
 AS 2001.5.4- 2005  
 GB/T 8628- 2013  
 GB/T 8629- 2017  
 GB/T 8630- 2013  
 GB/T 8878- 2014 Section  
 5.1.2.7  
 FZ/T 73017- 2014 Section  
 5.1.2.7  
 GB/T 73008- 2002 Section  
 5.4.4/ 5.4.8  
 GB/T 73020- 2012 Sec-5.3.2  
 GB/T 73021- 2004  
 Section .5.4.3/5.4.4  
 GB/T 73025- 2019 Section  
 5.4.1  
 GB/T 73026- 2014, Sec-5.2.3  
 GB/T 22849-2014, Section  
 5.4.4  
 GB/T 22853- 2019, Section  
 5.4.4  
 GB/T 26385- 2011, Sec-  
 5.3.4

51	Fabric & Garment	Water Resistance Impact Penetration	AATCC TM 42- 2017e	0.01 to 50 g
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