



# 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 17025:2005**

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 : **16 April 2019**  
Date of Expiration : **25 November 2021**



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

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.

## ACCREDITATION SCHEME

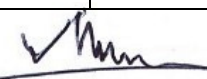
(For Testing Laboratory)

<b>CAB Name &amp; Address:</b>	<b>ITS Labtest Bangladesh Ltd., Dhaka Lab Phoenix Tower (2nd &amp; 3rd Floor), 407, Tejgaon, Dhaka-1208</b>		
<b>Accreditation Standard:</b>	ISO/IEC 17025:2017	<b>Accreditation Date:</b>	26 Nov 2013
<b>Certificate Number:</b>	01.003.13	<b>Issued on:</b>	16 April 2019
<b>Last Amended on:</b>	18 Oct 2020	<b>Valid until:</b>	25 Nov 2021
<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
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**Field: Chemical including Analytical tests**

01	A. Yarns & Cords B. Finished Fabric C. Apparels/ Garments D. Made- ups E. Terry Fabrics & its products	Colour Fastness to Washing and laundrying	BS EN ISO 105 C06-2010 ISO 105 C06-2010 ISO 105 C08-2010 BS EN ISO 105 C10-2007 ISO 105 C10-2006 DIN EN ISO 105 C06-2010 AATCC TM61-2013e2 AS 2001.4.15-2006 (R2016) CAN/CGSB-4.2 No 19.1-2004 (R2013) CAN/CGSB 4.2 No. 19.2-2003 JIS L 0844-2011 GB/T 3921-2008 GB/T 12490-2014	Grade : 1-5 ±0.5 grade
02	A. Yarns & Cords B. Finished Fabric C. Apparels/ Garments D. Made- upsS. E. Terry Fabrics & its products	Colour Fastness to Rubbing/ Crocking	BS EN ISO 105 X12-2016 ISO 105 X12-2016 DIN EN ISO 105 X12-2016 BS EN ISO 105 X16-2016 ISO 105 X16-2016 AATCC TM8-2016e AATCC TM116-2018e AS 2001.4 .3-1995 (R2016) CAN/CGSB-4.2 No 22-2004 (R2013) GB/T 3920-2008	Grade : 1-5 ±0.5 grade
03	A. Yarns & Cords B. Finished Fabric C. Apparels/ Garments D. Made- ups E. Terry Fabrics & its products	Colour Fastness to Dry Cleaning	BS EN ISO 105 D01-2010 ISO 105 D01-2010 DIN EN ISO 105 D01-2010 AATCC TM132-2004e3(2013) e3 AS 2001.4.16-1981(R2016) JIS L 0860-2008 GB/T 5711-2015	Grade :1-5 ±0.5 grade

  
 Quality Manager

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**Certificate Number:** 01.003.13      **Issued on:** 16 April 2019

**Last Amended on:** 18 Oct 2020      **Valid until:** 25 Nov 2021

**Amendment no:** 01

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
04	A. Yarns & Cords B. Finished Fabric C. Apparels/ Garments D. Made- ups E. Terry Fabrics & its products	Colour Fastness to Perspiration	BS EN ISO 105 E04-2013 ISO 105 E04-2013 DIN EN ISO 105 E04-2013 AATCC TM15-2013e AS 2001.4.17:1980 AS 2001.4 E 04-2005 (R2016) CAN/CGSB-4.2 No 23-M-90(R-2013) JIS L 0848-2004(2010) GB/T 3922-2013	Grade : 1-5 ±0.5 grade
05	A. Yarns & Cords B. Finished Fabric C. Apparels/ Garments D. Made- ups E. Terry Fabrics & its products	Colour Fastness to Light	BS EN-ISO 105 B02-2014 ISO 105 B02-2014 DIN EN-ISO 105 B02-2014 AATCC TM16.3-2014e2, Option 3 AS 2001.4.B02-2001(R2016) GB/T 8427-2008	Rating : 1 – 8 Rating : 1 – 8 Rating : 1 – 8 Rating : 1 – 5 ±0.5 grade
06	A. Yarns & Chords B. Grey Fabric C. Finished Fabric D. Apparels/ Garments E. Made- ups F. Terry Fabrics & its products	Fiber Composition (composition in weight %)	ISO 1833 Part-1,2,5,8:2006 Part-4,7 & 11: 2017 Part-6,20:2018 Part-3,9,10,12,13,14,16,17, 18, 21: 2019 BS EN ISO 1833 Part-1,2,5,8,17:2010 Part-4,7,11: 2017 Part-3,6,9,10,12,13,14,16, 18,20,21:2019 AATCC TM20A-2018e AS 2001.7-2005 (R2016)  GBT/ (T2910.1, T2910.4, T2910.6, T2910.8, T2910.11, T2910.12, T2910.20, T2910.22 -2009)	0.5 to 100%
		Fiber Identification	AATCC TM20-2013(2018)e	Qualitative

  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
07	A. Textile & Textile Products B. Leather Products C. Paints D. Prints	Banned aryl amines from Azo dyes  [o-Toluidine (95-53-4); 2-Methoxyaniline (90-04-0); p-Chloroaniline (106-47-8); 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-Diaminoanisole (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);	In-house Method: SOP/AM/001 I-2, R-0 and SOP/AM/019 I-2, R-0  EN 14362 part-1-2017 EN 14362 part-3-2017  DD CEN ISO/TS 17234-1 - 2015 DD CEN ISO/TS 17234-2 -2011	5 to 1000 mg/kg MDL: 0.5 mg/l

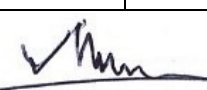
  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		4,4'-Methylene-bis-(2-Chloroaniline) (101-14-4); 3,3'-Dimethoxybenzidine (119-90-4); 2,4-Xylidine (95-68-1); 2,6-Xylidine (87-62-7); P-Aminoazobenzene (60-09-3);		
08	A. Textile & Textile Products B. Toys & Sports Equipment C. Plastic & Other Polymeric products D. Leather Products E. Paints F. Prints	Phthalates Content (DBP; BBP; DEHP; DNOP; DINP; DIDP; DIBP; DMP; DEP, DMEP, DIHP, DiPP DMEP, 1,2-Benzenedicarboxylic acid, branched and linear esters (PIPP, DIPP & DNPP), PIPP, DNPP, D NHP, DHNUP (DHP, DNP & DUDP) DHP, DNP, DUDP, DIHx P, DCHP, DTP)	In House Method: SOP/AM/009, I-2, R-0 In House Method: SOP/AM/010, I-1 R-2 In House Method: SOP/AM/011, I-1, R-3 CPSC-CH-C1001-09.4-2018  EN 14372-2004 EN 14389-2014	45 to 50,000 mg/kg MDL:0.15 mg/l
09	A. Textile & Textile Products B. Toys & Sports Equipment C. Plastic & Other Polymeric products D. Leather Products E. Paints	Total Lead Content in surface coating / paint (16 CFR 1303:2008 / CPSIA 2008- public law No. 110-314 –Title 1 section 101)	In House Method:- SOP/AM/004, I-1, R-2 16CFRCPSCPart1303: 2008 CPSC-CH-E1003-09.1-2011 ASTM E 1645-01(2016)e1 ASTM E 1613-2012	5 to 5000 mg/kg MDL:0.04 mg/l

  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	F. Prints			
10	A. Textile & Textile Products B. Others- Metallic Accessories Zipper	Total Lead content in metals including children jewelry CPSIA 2008 – Public law No. 110-314	In-House Method: SOP/AM/006/ I-1, R-2 CPSC-CH-E1001-8.3-2012 ASTM E 1645-2016 ASTM E 1613-2012	5 to 5000 mg/kg MDL:0.04 mg/l
11	A. Textile & Textile Products B. Plastic & Other Polymeric products C. Leather Products D. Paints E. Prints	Total Lead content in Non-Metal  CPSIA 2008 – Public law No. 110-314	In-House Method: SOP/AM/002, I-1, R-3 USEPA method 3051 A USEPA method 3050 B CPSC-CH-E1002-08.3-2012	10 to 5000 mg/kg MDL:0.04 mg/l
12	A. Textile & Textile Products B. Plastic & Other Polymeric products C. Leather Products	Total Cadmium content	In house method: SOP/AM/005, I-1, R-2 BS EN 1122-2001	5 to 5000 mg/kg MDL: 0.04 mg/l
13	Leather Products	Estimation of Chromium (VI) content	BS EN ISO 17075-1:2017	1 to 500 mg/kg MDL: 0.002 mg/l
14	A. Textile & Textile Products B. Paints C. Prints	Determination of free, released and total Formaldehyde content	In-House Method: SOP/AM/008, I-1, R-2 SOP/AM/007 I-1, R-2 BS EN ISO 14184-1:2011 BS EN ISO 14184-2:2011 AATCC 112-2020 JIS L 1041-2011 GB/T 2912.1-2009	5 to 5000 mg/kg MDL: 0.15 mg/l

  
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15	A. Textile & Textile Products B. Paints C. Prints D. Leather Products	Determination of APEOs & APs content Nonylphenoethoxylates (NPEOs) Octylphenoethoxylates (OPEOs) AP Content NP (Nonylphenol) OP (Octylphenol)	Harmonized SOP: C017.TP, I-4 (05/2019) BS EN ISO 18254-1-2016	10 to 5000 mg/kg MDL: 0.5 mg/l
16	A. Textile & Textile Products B. Leather Products	Cationic Surfactants Distearyldimethylammoniumchloride (DSDMAC); Ditallowdimethylammoniumchloride (DSDMAC); Dihydrogenatedtallow dimethylammouniumchloride (DHTDMAC)	In House Method SOP No.: SOP/AM/018, I-1, R-2 Harmonized SOP: HSOP: C037.TP-I-1	10 to 5000 mg/kg MDL: 0.50 mg/l
17	A. Textile & Textile Products B. Leather Products	Chloroparaffins Short chained (SCCPs) C10-C13; Medium chained (MCCPs) C14-C17	Harmonized SOP: C023.TP, I-4 EN ISO 18219-2012	10 to 5000 mg/kg MDL: 1.0 mg/l
18	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; PFTeA; EtFOSA; PFUnA; PFTrA; PFOSA; PFOS; 7H Dodecanefluoroheptan	In House Method SOP No: SOP/AM/020 I-1, R-1 CEN TS 15968:2010 Harmonized SOP: C025 TP, I-5	1 to 1000 mg/kg MDL: 0.5 µg/l

  
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		e Acid; 2H,2H Perfluorodecane Acid; 1H,1H,2H,2H Perfluorooctanesulph onic acid; Perfluorocyclobutane- cC4F8; HPFHpA; PFPA; PFHxA; Perfluoropentane – C5F14; 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		
19	A. Textile & Textile Products B. Leather Products	Total Heavy Metals Content	In House Method SOP No: SOP/AM/003, I-1, R-3  USEPA 3051A (modified) USEPA 3052 (modified) CPSC-CH-E1001-08.3 CPSC-CH-E1002-08.3 CPSC-CH-E1003-09.1 ASTM E1645-2016 BS-EN 16711-1:2015	1 to 5000 mg/kg MDL: 0.4 mg/l
20	A. Yarns & Chords B. Finished Fabric C. Apparels/ Garments D. Made- ups  E. Terry Fabrics & its products	pH Value	BS EN ISO 3071-2006 EN ISO 3071-2006 GB/T 7573-2009 ISO 3071-2020 AATCC 81- 2020	0.1 to 14

  
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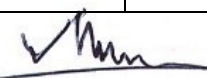
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
21	A. Textile & Textile Products B. Leather Products	Flame retardant Per eco-Textile	HSOP: C019 TP.	5-1000 mg/Kg MDL: 10 µg/l
22	Waste Water	Total Suspended Solids (TSS)	EPA -160.2	4-10000 mg/l LOD= 4
23	Waste Water	Biological Oxygen Demand (BOD)	APHA -5210D	1-700 mg/l LOD= 1
24	Waste Water	Chemical Oxygen Demand (COD)	EPA -410.4	4-1500 mg/l LOD= 4
25	Waste Water	pH	EPA-150.1	0 to 14
26	Waste Water	Temperature [°C]	USEPA 170.1,	5-100 LOD: 5
27	Waste Water	Total-N	ISO 5663, ISO 29441, USEPA 351.2. APHA 4500P-J. APHA 4500N-C	5-50 mg/l LOD: 5 mg/l
28	Waste Water	Colour [m-1](436, 525, 620 nm)	ISO 7887-B	0.1;0.1;0.1- 25;25;25 LOD: 0.1;0.1;0.1
29	Waste Water	Ammonium-N	ISO 11732, ISO 7150, EN ISO 11732, USEPA 350.1, APHA 4500 NH <sub>3</sub> -N	0.5-50 mg/l LOD: 0.5 mg/l
30	Waste Water	Total-P	ISO 11885, ISO 6878, EN ISO 11885, USEPA 365.4, APHA 4500P-J	0.1-10 mg/l LOD: 0.1 mg/l
31	Waste Water	AOX	ISO 9562, EN ISO 9563, USEPA 1650	0.1-20 mg/l LOD: 0.1 mg/l
32	Waste Water	Oil and Grease	ISO 9377-2, EN ISO 9377-2, USEPA 1664	0.5-50 mg/l LOD: 0.5 mg/l
33	Waste Water	Phenol	ISO 14402, EN ISO 14402, APHA 5530 B, C&D	0.001-10 mg/l LOD: 0.001 mg/l
34	Waste Water	Coliform [bacterial/100 ml]	ISO 9308-1, EN ISO 9308-1, USEPA 9132	1 -5000 LOD: 1
35	Waste Water	Foam	In-house SOP: SOP/ENV/004	NA
36	Waste Water	Cyanide	ISO 6703-1,2,-3. ISO 14403-1,-2,	0.02-5 mg/l

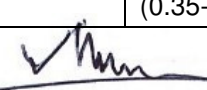
  
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	&Sludge		USEPA 335.2, APHA 4500-CN	LOD:0.02 mg/l
37	Waste Water	Sulfide	ISO 10530, APHA 4500-S2D	0.01-10.0 mg/l LOD:0.01 mg/l
38	Waste Water	Sulfite	ISO 10304-3, EN ISO 10304-3, USEPA 377.1	0.2-20 mg/l LOD:0.2 mg/l
39	Waste Water & Sludge	Glycols	US EPA 8270 Liquid extraction, LCMS/MS & GC-MS	0.05-100 mg/l LOD:0.05 mg/l
40	Waste Water & Sludge	Halogenated Solvents	USEPA 8260B Headspace GC/ MS or Purgeand- Trap-GC/MS	0.001-100 mg/l LOD: 0.001 mg/l
41	Waste Water & Sludge	Volatile Organic Compounds (VOC)	ISO 11423-1 Headspace- or Purge-and- Trap-GC/MS US EPA 8260	0.001-100 mg/l LOD: 0.001 mg/l
42	Waste Water & Sludge	Heavy Metals	ISO 18412, EPA 200.7, EPA 200.8, EPA 6010c, EPA 6020a, EPA 218.6	0.0005-5000 mg/l LOD= 0.0005 mg/l
<b>Field: Mechanical tests</b>				
01	Fabric	Tensile Strength & Elongation- Strip Method	BS EN ISO 13934 -1-2013 EN ISO 13934 -1 -2013 ISO 13934 -1-2013 ASTM D 5035 -11 (R 2019) AS 2001.2.3.1-2001 (R2016) CAN/CGSB-4.2 No 9.1 M-90 (R 2013) JIS L 1096-2010 GB/T 21294-2014 Section 5.6 GB/T 3923.1-2013 CAN/CGSB -4.2 No. 9.6-93(R2013)	10 N- 4.5 kN (2.2 -1011 lbs) 1% to 100%
		Tensile Strength & Elongation- Grab Method	BS EN ISO 13934- 2 -2014 EN ISO 13934- 2 -2014 ISO 13934- 2-2014 ASTM D 5034-2009 (2017) AS 2001.2.3.2-2001 (R 2016) CAN/CGSB-4.2 No 9.2 M-90 (2013) JIS L 1096-2010 GB/T 3923.2-2013	10 N- 4.5 kN 1% to 100%
02	Fabric	Tear Strength- Elmendorf	BS EN ISO 13937-1-2000 EN ISO 13937-1-2000	1.6 N-115 N (0.35-25.3 lb)

  
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			ISO 13937-1:2000 ASTM D 1424 -2009 (R 2019) AS 2001.2.8-2001 (R2016) CAN/CGSB-4.2 No 12.3-2005(R2013) JIS L 1096-2010 GB/T 3917.1-2009	
		Tear Strength- Tensile	BS EN ISO 13937-2 -2000 EN ISO 13937-2 -2000 ISO 13937-2:2000 BS EN ISO 13937-3-2000 EN ISO 13937-3-2000 ISO 13937-3:2000 ASTM D 2261-2013(R2017) e1 JIS L 1096-2010 GB/T 3917.2-2009	10 N- 4.5 kN (1.12 -1011 lbs)
03	Fabric	Bursting Strength- Hydraulic	BS EN ISO 13938 –1-2019 ISO 13938-1-2019 ASTM D 3786 /D 3786 M- 2018 AS 2001.2.4-1990 (R 2016) CAN/CGSB-4.2 No 11.1-1994 (2013) JIS L 1096-2010 FZ/T 01030-2016 GB/T 7742.1- 2005 (2008)	70 kPa to 1240 kPa (10 to 180 psi)
		Bursting Strength- Pneumatic	BS EN ISO 13938 –2--2019 EN ISO 13938 –2--2019 ISO 13938 –2--2019 ASTM D 3786 /D 3786 M- 2018	70 kPa to 1240 kPa (10 to 180 psi)
		Bursting Strength- Ball Bursting	JIS L 1096-2010 ASTM D 67972015 FZ/T 01030-2016 GB/T 8878-2014Section 5.4.1 GB/T 19976-2005 (2009)	10 N- 4.5 kN
04	Fabric	Stretch Properties	BS 4952 – 1992 (2002) BS EN 14704-1-2005 EN 14704-1-2005 BS 4294-1968 ASTM D 4964 – 1996 (R 2016) JIS L 1096-2010	1 to 200 %
		Stretch & Recovery	ASTM D 2594 – 2004 (R 2016) ASTM D 3107 – 2007 (R 2019)	1 to 100 %

  
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05	Fabric & Garment	Dimensional stability to washing	BS EN ISO 6330-2012 ISO 6330-2012 BS EN ISO 5077-2008 EN ISO 5077-2008 ISO 5077-2007 BS EN ISO 3759-2011 ISO 3759-2011 AATCC TM135-2018t AATCC TM150-2018t AS 2001.5.4 -2005 (R2016) 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 Section 5.3.2 GB/T 73021 Section .5.4.3/5.4.4 GB/T 73025. Section 5.4.1 GB/T 73026 (2008) Section 5.2.3 GB/T 22849-2014 Section 5.4.4 GB/T 22853-2014 Section 5.4.4 GB/T 26385-2011 Section 5.3.4	- 50% to 50%
06	Fabric & Garment	Water Resistance Impact Penetration	AATCC TM 42 – 2017e	0.01 to 50 g

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