



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)

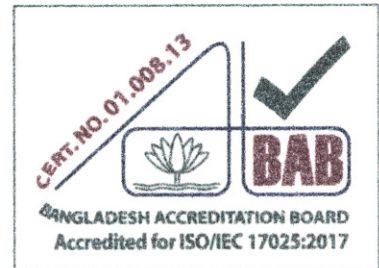
407, Tejgaon Industrial Area, Dhaka-1208, Bangladesh

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

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

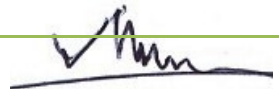
(For Testing Laboratory)

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Certificate Number:	01.008.13	Issued on:	19 January 2022
Last Amended on:	-	Valid until:	25 November 2024
Amendment no:	-		

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

I. TEXTILE (WOVEN & NONWOVEN)				
1	A. Yarns & Cords B. Finished Fabric C. Apparels/ Garments D. Made- ups E. Terry Fabrics & its products	<i>Colour Fastness to Washing and laundering</i>	<i>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 TM61-2018e AS 2001.4.15-2006 (R2016) JIS L 0844- 2011 GB/T 3921- 2008 GB/T 12490- 2014 CAN/CGSB-4.2 No 19.1- 2004 (R2013) CAN/CGSB 4.2 No. 19.2- 2003</i>	Grade: 1-5 ±0.5 grade
2	A. Yarns & Chords B. Grey Fabric C. Finished Fabric D. Apparels/ Garments E. Made- ups F. Terry Fabrics & its products	<i>Fiber Composition (composition in weight %)</i>	<i>ISO 1833 Part- 1, 2, 3, 12, 18, 22- 2020, 5, 8- 2006, 6, 20- 2018, Part- 10, 14, 16, 17, 21- 2019 Part-4, 7, 11- 2017 BS EN ISO 1833 Part- 1, 2, 3, 12, 17, 18- 2020, 5,8- 2010, 22- 2013 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</i>	0.5 to 100%



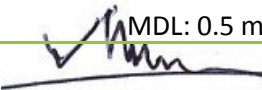
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II. HAZARDOUS AND RESTRICTED CHEMICALS				
3	A. Textile & Textile Products B. Paints C. Prints	<i>Banned aryl amines from Azo dyes</i> <i>[o-Toluidine (95-53-4); 2-Methoxyaniline (90-04-0); p-Chloroaniline (106-47-8); p-Kresidine (120-71-8); 2,4,5-Trimethylaniline(137-17- 7); 4-Chloro-o-Toluidine (95-69-2); 2,4-Tolylenediamine (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); 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); 4-chloro-o-toluidinium chloride(3165-93-3); 2-Naphthylammoniumacetate (553-00-4); 4-methoxy-m-phenylene diammonium sulphate(39156- 41-7); 2,4,5-trimethylaniline hydrochloride (21436-97-5); Aniline (62-53-3)</i>	<i>EN 14362 part-1-2017 EN 14362 part-3-2017 GB/T 17592- 2011</i>	5 to 1000 mg/kg MDL: 1 mg/L
4	A. Textile & Textile	<i>Determination of APEOs content</i>	<i>Harmonized SOP: C017.TP, I-4 (May'2019)</i>	5 to 5000 mg/kg MDL: 0.5 mg/L

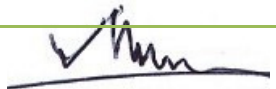

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	Products		<i>BS EN ISO 18254-1-2016</i>	
	B. Paints	<i>Nonylphenoethoxylates (NPEOs)</i>	<i>EN ISO 18218-1- 2015</i>	
	C. Prints	<i>Octylphenoethoxylates (OPEOs)</i>	<i>EN ISO 21084- 2019</i>	
	D. Leather Products	<i>AP content NP (Nonylphenol) OP (Octylphenol)</i>		
5	A. Textile & Textile Products	<i>Cationic Surfactants</i>	<i>In House Method SOP No.: SOP/AM/018, I-1, R-2 Harmonized SOP:</i>	10 to 5000 mg/kg LOD: 0.50 mg/L
	B. Leather Products	<i>Distearyldimethyl ammoniumchloride (DSDMAC); Ditallowdimethyl ammoniumchloride (DTDMAC); Dihydrogenated tallowdimethyl ammoniumchloride (DHTDMAC)</i>	<i>HSOP:C037.TP-I-1</i>	
6	A. Textile & Textile Products	<i>Chloroparaffins</i>	<i>Harmonized SOP: C023.TP, I-4</i>	10 to 5000 mg/kg LOD: 10 mg/L
	B. Leather Products	<i>Short chained (SCCPs) C10-C13; Medium chained (MCCPs) C14-C17</i>	<i>ISO 18219- 2015 DIN EN ISO 18219- 2016-02</i>	
7	A. Textile & Textile Products	<i>Per fluorinated Carbons (PFCs)</i>	<i>Harmonized SOP: C016.TP, I-7 CEN/TS 15968- 2014</i>	1 to 1000 mg/kg LOD: 1 mg/L
	B. Leather Products	<i>EtFOSE; PF-3,7-DMOA; PFUdA; 1H,1H,2H,2H-PFOS;; PFDoA; MeFOSA; PFOA; PFDA; H4PFUnA; PFNA; PFTeDA; EtFOSA;</i>	<i>ISO 23702-1- 2018(E)</i>	



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		4HPFUnA ; PFTTrDA; PFOSA; PFOS; 7H- Dodecanefluorohept ane Acid; 2H,2H- Perfluorodecane carboxylate; 1H,1H,2H,2H Perfluorooctanesul phonic 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		
8	A. Textile & Textile Products B. Leather Products	<i>Total Heavy Metals Content</i>	<i>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- 2020 BS-EN 16711-1- 2015</i>	1 to 5000 mg/kg LOD: 1 mg/L
9	A. Textile & Textile Products B. Leather Products	<i>Flame retardant</i>	<i>Harmonized SOP: C019 TP</i>	5-1000 mg/Kg MDL: 10 µg/l

III. WASTE WATER :



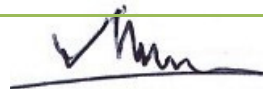
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10	Wastewater	Total Suspended Solids (TSS)	USEPA -160.2 :1971	4-10000 mg/L LOD= 4 mg/L
11	Wastewater	Biological Oxygen Demand (BOD)	APHA 5210B (23 rd Edition), APHA -5210D (23 rd Edition) & USEPA 405.1 :1974	0.2-5000 mg/ L LOD= 0.2 mg/L
12	Wastewater	Chemical Oxygen Demand (COD)	USEPA 410.4 :1993, ISO 6060 :1989, APHA 5220D (23 rd Edition), Validated Cuvette Method	4- 20000 mg/L LOD= 4 mg/L
13	Wastewater	pH	USEPA-150.1 :1978	0 to 14
14	Wastewater	Temperature [°C]	USEPA 170.1 :1974	0 -100 LOD: 0
15	Wastewater	Total Nitrogen	ISO 5663 :1984, USEPA 351.2 :1993, ISO 11905-1 :1997, APHA 4500N-C (23 rd Edition)	0.5-100 mg/L LOD: 0.5 mg/L
16	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
17	Wastewater	Ammonium Nitrogen	ISO 11732 :2005, ISO 7150-1:1984, USEPA 350.1 :1993	0.2 - 100 mg/L LOD: 0.2 mg/L
18	Wastewater	Total Phosphorus	ISO 11885 :2007	0.04 – 50 mg/L LOD: 0.04 mg/L
19	Wastewater	AOX	ISO 9562 :2004, USEPA 1650 :1997	0.06 -20 mg/L LOD: 0.06 mg/L
20	Wastewater	Oil and Grease	ISO 9377-2 :2000, USEPA 1664 :2010	0.5-50 mg/L LOD: 0.5 mg/L



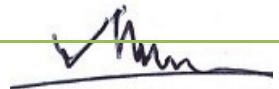
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21	Wastewater	Phenol	ISO 14402 :1999, APHA 5530 (23 rd Edition)	0.001-10 mg/L LOD:0.001 mg/L
22	Wastewater	Coliform [bacterial/100 ml]	ISO 9308-1 :2014, USEPA 9132 :1986	0 -5000 LOD: 0
23	Wastewater	Foam	Visual	NA
24	Wastewater & Sludge	Cyanide	ISO 6703-1,2,3 :1984, - USEPA 335.2 :1980, APHA 4500-CN (23 rd Edition), USEPA 9013 :2014, USEPA 9014 :2014	0.02-5 mg/L LOD:0.02 mg/L
25	Wastewater	Sulfide	ISO 10530 :1992, APHA 4500-S2-D (23 rd Edition)	0.01-10.0 mg/L LOD:0.01 mg/L
26	Wastewater	Sulfite	USEPA 377.1 :1978, APHA 4500-SO3 (23 rd Edition), ISO 10304-3: 1997	0.2-20 mg/L LOD:0.2 mg/L
27	Wastewater & Sludge	Glycols	USEPA 8270E:2018, ISO 22892 :2006	0.05-100 mg/L LOD:0.05 mg/L
28	Wastewater & Sludge	Halogenated Solvents	USEPA 8260B :1996, USEPA 5035A :1996, USEPA 5021A :2014, USEPA 8010B :1994	0.001-100 mg/L LOD: 0.001 mg/L
29	Wastewater & Sludge	Volatile Organic Compounds (VOC)	ISO 11423-1 :1997, USEPA 8270D :2014, USEPA 5035A :1996, USEPA 5021A :2014, USEPA 8260B :1996,	0.001-100 mg/L LOD: 0.001 mg/L



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			<i>DIN 38407-43 :2014</i>	
30	Wastewater & Sludge	<i>Heavy Metals</i>	<i>ISO 11885 :2007, ISO 18412 :2005, USEPA 200.8 :1994, USEPA 6010c:2000, USEPA 6020a :1998, USEPA3060A :1996, USEPA 7196 :1992, USEPA 3050 :1996, USEPA 6010D :2018, US EPA 6020B :2014, US EPA 3051A :2007 and ICP-MS, ICP-OES and UV/VIS analysis</i>	Wastewater: 0.00005-5000 mg/L LOD: (Sb, Total Cr, Cu, Co, Ni, Ag, Zn, As, Cr(VI), Pb, Mn)-0.001mg/L (Cd)-0.0001mg/L (Hg)- 0.00005mg/L Sludge: 2-5000 mg/Kg LOD: (Sb, Total Cr, Cu, Co, Ni, Ag, Zn, As, Cr(VI), Pb, Mn), Cd-2mg/Kg (Hg)- 0.2mg/Kg
31	Wastewater	<i>Total Dissolved Solids (TDS)</i>	<i>APHA 2540-C (23rd Edition), USEPA 160.1: 1971</i>	1-5000 mg/L LOD: 1 mg/L
32	Wastewater	<i>Electrical Conductivity</i>	<i>USEPA 120.1: 1982</i>	2 -10000 μ S/cm LOD: 2 μ S/cm
33	Wastewater	<i>Chloride</i>	<i>APHA 4500-Cl⁻-B, E (23rd Edition), ISO 10304-1 : 2007</i>	10-1000 mg/L LOD: 10 mg/L
34	Wastewater	<i>Sulfate</i>	<i>APHA 4500-SO₄²⁻-E (23rd Edition), USEPA 375.4 : 1978, ISO 10304-1 : 2007</i>	10-1000 mg/L LOD: 10 mg/L
35	Wastewater	<i>Total Hydrocarbons</i>	<i>USEPA 1664-B : 2010, APHA 5520-F (23rd Edition)</i>	1-50 mg/L LOD: 1 mg/L
36	Wastewater	<i>Carbon disulfide (CS₂)</i>	<i>USEPA 8260B : 1996, ISO 15680 : 2003; ISO 11423-2 : 1997</i>	0.1-10 mg/L LOD: 0.1 mg/L
37	Sludge	<i>Dry Mass (Total Solids)</i>	<i>USEPA 160.3: 1971</i>	1-100 % LOD: 1%

Field: Mechanical Tests



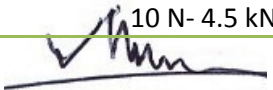
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I. TEXTILE MATERIALS				
01	Fabric & Garment	<i>Tensile Strength & Elongation- Strip Method</i>	BS EN ISO 13934 -1- 2013 EN ISO 13934 -1 - 2013 ISO 13934 -1- 2013 ASTM D 5035- 2011 (2019) AS 2001.2.3.1- 2001 (R2016) CAN/CGSB-4.2 No 9.1 M-90 (R 2013) 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)	10 N- 4.5 kN (2.2 -1011 lbs) 1% to 100%
		<i>Tensile Strength & Elongation- Grab Method</i>	BS EN ISO 13934- 2 -2014 EN ISO 13934- 2 -2014 ISO 13934- 2-2014	10 N- 4.5 kN
			ASTM D 5034- 2021 AS 2001.2.3.2-2001 (R 2016) CAN/CGSB-4.2 No 9.2 M-90 (2013) JIS L 1096- 2010/A 1- 2020 GB/T 3923.2-2013	10 N- 4.5 kN 1% to 100%
02	Fabric & Garment	<i>Tear Strength- Elmendorf</i>	BS EN ISO 13937-1- 2000 EN ISO 13937-1- 2000 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	1.6 N-115 N (0.35-25.3 lb)
		<i>Tear Strength-</i>	BS EN ISO 13937-2- 2000	10 N- 4.5 kN

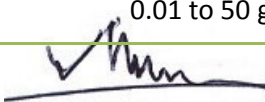

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		<i>Tensile</i>	EN ISO 13937-2- 2000 ISO 13937- 2- 2000 BS EN ISO 13937-3- 2000 EN ISO 13937-3- 2000 ISO 13937-3- 2000 BS EN ISO 13937-4- 2000 ASTM D 2261-2013 (R2017) e1 JIS L 1096- 2010/A 1- 2020 GB/T 3917.2-2009 ASTM D 5587- 15 (R2019)	(1.12 -1011 lbs)
03	Fabric & Garment	<i>Dimensional stability to washing</i>	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 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	- 50% to 50%
04	Fabric &	<i>Water Resistance</i>	AATCC TM 42- 2017e	0.01 to 50 g


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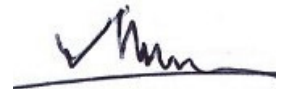
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	Garment	<i>Impact</i> <i>Penetration</i>		

END



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