



ACCREDITATION CERTIFICATE

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

UL VS Bangladesh Ltd.

**The Pearl Trade Center (5th, 14th and 15th floor)
Cha-90/3, Progoti Sharani, North Badda, , Dhaka-1212, 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 : **01.030.15**
Accreditation Date : **10 September 2015**
Date of Issuance : **01 October 2018**
Date of Expiration : **30 September 2021**




Md. Monwarul Islam
Director General

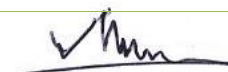
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SCOPE OF ACCREDITATION

(For Testing Laboratory)

| | | | |
|--------------------------------|---|----------------------------|-------------------|
| CAB Name & Address: | UL VS Bangladesh Ltd. The Pearl Trade Center (5th, 14th and 15th floor), Cha-90/3, Progoti Sharani North Badda, Dhaka-1212, Bangladesh | | |
| Accreditation Standard: | ISO/IEC 17025:2005 | Accreditation Date: | 10 September 2015 |
| Certificate Number: | 01.030.15 | Issued on: | 01 October 2018 |
| Last Amended on: | 18 March 2019 | Valid until: | 30 September 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 |
|----------------------------------|--|---|---|---|
| Field: Mechanical Testing | | | | |
| 1. | Textile, Garment, Garment accessories | ITP 020 (Based on ASTM D 3786/D-2018) ITP 082 (Based on BS EN ISO 13938-2:1999; ISO 13938- 2:1999; DIN EN ISO 13938- 2:1999) | Bursting Strength – Diaphragm | Max. 800 Kpa |
| 2. | Textile, Garment, Garment accessories | ITP 016 (Based on ISO 12947- 1, 1998/corr.1:2002, DIN EN ISO 12947-1: 1999) ITP 017 (Based on ISO 12947- 2, 2016; DIN EN ISO 12947-2: 2017) ITP 018 (Based on ISO 12947- 3:1998; DIN EN ISO 12947- 3:2007) ITP 019 (Based on ISO 12947- 4:1998 cor.1.2002, DIN EN ISO 12947-4:2007) | Abrasion Resistance | Thread Breakage, weight loss Color Change |
| 3. | Textile, Garment, Garment accessories | ITP 055 (Based on ISO 13935- 2:2014; DIN EN ISO 13935- 2:2014; GB/T 13773.2-2008) ITP 053 (Based on ASTM D 1683-2007) ITP 054 (Based on ISO 13935- 1:2014; DIN EN ISO 13935- 1:2014; GB/T 13773.1-2008) | Seam - Seam Strength | Max. 500N |
| 4. | Textile, Garment, Garment accessories | ITP 025 (Based on ASTM D 1424-2013) ITP 026 (Based on ISO 13937- 1:2000, cor.1:2004; BS EN ISO 13937-1:2000; DIN EN ISO 13937-1:2000; GB/T 3917.1- 2009) ITP 027 (Based on ISO 13937- 2:2000; DIN EN ISO 13937- 2:2000; GB/T 3917.2-2009) ITP 041 (Based on ISO 13937- 3:2000; DIN EN ISO 13937- | Tearing strength | Max 64 N |



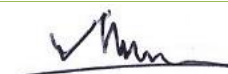
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| | | 3:2000) | | |
| 5. | Textile, Garment, Garment accessories | ITP 023 (Based on ISO 12945-1:2000, BS EN ISO 12945-1:2001; DIN EN ISO 12945-1:2001; GB/T 4802.3-2008) ITP 024 (Based on BS EN ISO 12945-2:2000; ISO 12945-2:2000; DIN EN ISO 12945-2:2000, GB/T 4802.2-2008) | Pilling Resistance | Assessment 1-5 |
| 6. | Textile, Garment, Garment accessories | ITP 021 (Based on ASTM D 3776/ D 3776 M-09 a-2017) ITP 022 (Based on ISO 3801:1977) | Mass per unit Area of Fabric | - |
| 7. | Textile, Garment, Garment accessories | ITP 090 (Based on CPSC 16 CFR 1610, GB/T 14644-2014) | Flammability of General Clothing Textiles | Class 1-3 |
| 8. | Textile, Garment, Garment accessories | ITP 089 (Based on ASTM D 1230-2017) | Flammability of Apparel Textiles | Class 1, 2, 3 |
| 9. | Textile & Garment | ITP 118 (Based on EN ISO 6941) ITP-119 (Based on EN 14878) ITP-120 (Based on BSEN 1103) ITP-121 (Based on BS 5722) ITP-122 (Based on BSEN 5438) | Flammability or Burning Behaviour for textile | NA |
| 10. | Textile, Garment, Garment accessories | ITP 074 (Based on ASTM D 4970:2016) | Pilling Resistance | Assessment 1-5 |
| 11. | Textile, Garment, Garment accessories | ITP 039) Based on ASTM D5034:2017 (ITP 040) Based on ASTM D5035:2011-2015) ITP 028 (Based on ISO 13934-1:2013; DIN EN ISO 13934-1:2013; GB/T 3923.1-2013) | Tensile strength | Max 5000N |



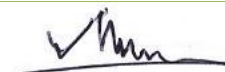
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| | | ITP 029 (Based on ISO 13934-2:2014; DIN EN ISO 13934-2:2014; GB/T 3923.2-2013) | | |
| 12. | Textile, Garment, Garment accessories | ITP 048 (Based on ASTM D3775:2017) ITP 049 (Based on ASTM D3887:1996) | Fabric Count | Countable as per customer specification |
| 13. | Textile, Garment, Garment accessories | ITP 065, (Based on ISO 13936-1:2004; DIN EN ISO 13936-1:2004; GB/T 13772.1-2008) ITP 066 (Based on ISO 13936-2:2004; DIN EN ISO 13936-2:2004; GB/T 13772.2-2008) ITP 052 (Based on ASTM D434-95) | Seam Slippage | Max. 6 mm |
| 14. | Textile, Garment, Garment accessories | ITP 043 (Based on ASTM D3882:2016) | Skew & Bow | Max. (customer specification) |
| 15. | Textile, Garment, Garment accessories | ITP 062 (Based on BS 3084:2006) | Zipper Performance Strength (except reciprocating test) | Max. 5000 N |
| 16. | Textile, Garment, Garment accessories | ITP 067 (Based on EN 71-1:2014+A1:2018) ITP 056 (Based on 16 CFR 1500.49) | Sharp Edge Test | / |
| 17. | Textile, Garment, Garment accessories | ITP 069 (Based on EN 71-1:2014+A1:2018) ITP 063 (Based on 16 CFR 1500.53 (e)) | Torque Test | Max. 4lbs |
| 18. | Textile, Garment, Garment accessories | ITP 079 (Based on BS 4952:1992) ITP 078 (Based on BS EN 14704-1:2005; DIN EN 14704-1:2005) ITP 076 (Based on ASTM D 4964-96 (2016)) | Test for Stretch/Elastic Fabric | Max. 5000 N |
| 19. | Textile, | ITP 068 (Based on EN 71- | Attachment strength / | Max. 90 N |



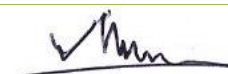
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| | Garment, Garment accessories | 1:2014+A1:2018) ITP 060 (Based on 16 CFR 1500:53 (F):2012) | Tension Test | |
| 20. | Textile, Garment, Garment accessories | ITP 073 (Based on EN 71- 1:2014+A1:2018; 16 CFR 1500.48) | Sharp Point Test | / |
| 21. | Textile, Garment, Garment accessories | ITP 070 (Based on EN 71- 1:2014+A1:2018) ITP 061 (Based on 16 CFR 1501:2017) | Small Parts Cylinder | / |
| 22. | Textile, Garment, Garment accessories | ITP 083 (Based on ASTM D3512: 2016) | Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Random Tumble Pilling Tester | Assessment 1-5 |
| 23. | Textile, Garment, Garment accessories | ITP 101 (Based on AATCC 93:2016) | Abrasion Resistance of Fabrics: Accelerator Method | Thread breakage, weight loss |
| 24. | Textile, Garment, Garment accessories | ITP 113 (Based on ASTM D 2261:2017) | Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate- of-Extension Tensile Testing Machine) | Max. 5000 N |
| 25. | Textile, Garment, Garment accessories | ITP-088 (Based on ASTM F 963-17, clause 4.9 2017) | Children Safety Test - Sharp Point | |
| 26. | Textile, Garment, Garment accessories | ITP-088 (Based on ASTM F 963-17, clause 4.7 2017) | Children Safety Test - Sharp edge test | |
| 27. | Textile, Garment, Garment accessories | ITP-088 (Based on ASTM F 963-17, clause 3.1 2017) | Children Safety Test - Small parts safety test | Max. 90 N |
| 28. | Textile, Garment, Garment accessories | ITP-088 (Based on ASTM F 963-17, clause 8.8 2017) | Children Safety Test - Torque test | Max. 4lbs |



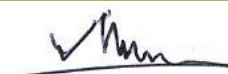
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| 29. | Textile, Garment, Garment accessories | ITP-088 (Based on ASTM F 963-17, clause 8.9 2017) | Children Safety Test - Tension test | Max. 90 N |
| 30. | Textile, Garment, Garment accessories | ITP 111 (Based on ASTM D 2061:2013) | Strength Tests For zipper | Max. 5000 N |
| 31. | Textile, Garment, Garment accessories | ITP 098 (Based on ASTM D 2594:2004(reapproved 2016) | Test method for stretch properties of knitted fabrics | Max. (customer specification) |
| 32. | Textile, Garment, Garment accessories | ITP 100 (Based on ISO 13015:2013; BS EN ISO 13015:2013; DIN EN ISO 13015:2013) | Determination of Skew and Bow | Max. (Customer Specification) |
| 33. | Textile, Garment, Garment accessories | ITP 112 (Based on ASTM D 2062:2014) | Test method for Operability of Zipper | Max. 5000 N |
| 34. | Textile, Garment, Garment accessories | ITP 109 (Based on BS EN 14682: 2007 CEN/TR 16446:2014) | Safety of Children's Clothing-Cords and drawstring on children's clothing; Safety of Children's clothing Guidance on the use of EN 14682: 2007 Cords and Drawstrings on children's clothing Specifications | Max. (Customer Specification) |
| 35. | Textile, Garment, Garment accessories | ITP 093(Based on ISO 1833- 12:2017, DIN EN ISO 1833- 12:2018), ITP 094(Based on ISO 1833- 11:2017, DIN EN ISO 1833- 11:2017) ITP 096(Based on ISO 1833- 7:2017; DIN EN ISO 1833- 7:2017), ITP 102(Based on ISO 1833- | Fiber Content | 0-100% |



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| | | 5:2006; DIN EN ISO 1833-5:2011), ITP 110 (Based on ISO 1833-1:2006; DIN EN ISO 1833-1:2011, FZ/T01057.1-4:2007) ITP 095 (Based on AATCC 20A:2017) ITP 092 (Based on ISO 1833-4:2006; DIN EN ISO 1833-4:2017) (ITP 104 (Based on BS 4407:1988) ITP 117 (Based on ISO 1833-6:2017; DIN EN ISO 1833-6:2011) ITP 105 (Based on BS 4407:1988) ITP 106 (Based on BS 4407:1988) ITP 107 (Based on BS 4407:1988) | | |
| 36. | Textile, Garment, Garment accessories | ITP 003 (Based on AATCC 61 No. 1A-5A-2013) ITP 004 (Based on BS EN ISO 105 C06: 2010; DIN EN ISO 105 C06:2010; ISO 105 C06:2010) | Colour Fastness to Washing | Color Change 1-5 Color Staining 1-5 |
| 37. | Textile, Garment, Garment accessories | ITP 015 (Based on ISO 105 E01:2013; DIN EN ISO 105 E01:2013 & GB T/5713-2013) ITP 014 (Based on AATCC 107-2013) | Colour Fastness to Water | Color Change 1-5 Color Staining 1-5 |
| 38. | Textile, Garment, Garment accessories | ITP 011 (Based on ISO 105 E04-2013; DIN EN ISO 105-E04:2013, GB/T 3922-2013) ITP 010 (Based on AATCC 15-2013) | Colour Fastness to Perspiration | Color Change 1-5 Color Staining 1-5 |



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| 39. | Textile, Garment, Garment accessories | ITP 035 (Based on AATCC 135-2015) ITP 036 (Based on AATCC 150-2012) | Appearance/Dimensional stability to washing | Assessment 1-5 |
| 40. | Textile, Garment, Garment accessories | ITP 030 (Based on ISO 6330:2012/ISO3759:2011/ISO 5077:2007; DIN EN ISO 6330:2012/ DIN EN ISO3759:2011/ DIN EN ISO 5077:2008; GB/T 8628- 2013/GB/T 8629-2001/GB/T 8630-2013) | Dimensional Stability to washing | % of Shrinkage &% Elongation |
| 41. | Textile, Garment, Garment accessories | ITP 005 (Based on ISO 105 C08:2010; DIN EN ISO 105 C08:2010) | Colorfastness to Washing | Color Change 1-5 Color Staining 1-5 |
| 42. | Textile, Garment, Garment accessories | ITP 008 (Based on AATCC 132:2009) ITP 009 (Based on ISO 105 D01:2010; DIN EN ISO 105 D01:2010; GB/T 5711-2015) | Colorfastness to Dry cleaning | Color Change 1-5 Color Staining 1-5 Thread Breakage, weight loss |
| 43. | Textile, Garment, Garment accessories | ITP 012 (Based on AATCC 106:2013) ITP 013 (Based on ISO 105 E02:2013; DIN EN ISO 105 E02:2013) | Color Fastness to Sea water | Color Change 1-5 Color Staining 1-5 |
| 44. | Textile, Garment, Garment accessories | ITP 032 (Based on ISO 7768:2009) ITP 031 (Based on ISO 7769:2009) ITP 033 (Based on ISO 7770:2009) ITP 072 (Based on AATCC 124:2014) ITP 077 (Based on AATCC 143:2014) ITP 037 (Based on AATCC 88B:2011) ITP 038 (Based on AATCC | Appearance after Washing | Assessment 1-5 |



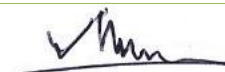
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| | | 88C:2014) | | |
| 45. | Textile, Garment, Garment accessories | ITP 058 (Based on ISO 16322- 2:2005/Corr. 1:2007) ITP 034 (Based on ISO 16322- 3:2005) AATCC 179:2012 | Spirality / skewing of Fabric and Garments | Max. (customer specification) |
| 46. | Textile, Garment, Garment accessories | ITP 046 (Based on ISO 105 N01:1993; DIN EN ISO 105 N01:1995) | Color fastness to hypochlorite bleaching | Assessment 1-5 |
| 47. | Textile, Garment, Garment accessories | ITP 044 (Based on ISO 105 E03:2010; DIN EN ISO 105 E03:2010) | Color Fastness to Chlorinated Water (swimming pool water) | Assessment 1-5 |
| 48. | Textile, Garment, Garment accessories | ITP 047 (Based on AATCC 104:2010(R 2014) | Color Fastness to Water Spotting | Assessment 1-5 |
| 49. | Textile, Garment, Garment accessories | ITP 045 (Based on AATCC 163:2012) | Color Fastness to Dye Transfer in Storage | Assessment 1-5 |
| 50. | Textile, Garment, Garment accessories | ITP 051 (Based on DIN V 53160-1:2010) | Resistance to Saliva | Assessment 1-5 |
| 51. | Textile, Garment, Garment accessories | ITP 071 (Based on Beilstein Method) Reference: Mark & Spencer C 64) | Qualitative test for detection of PVC (Poly Vinyl Chloride) | Assessment 1-5 |
| 52. | Textile, Garment, Garment accessories | ITP 091 (Based on BS EN ISO 105-X18:2007; DIN EN ISO 105-X18:2007; ISO 105- X18:2007) | Assessment of the potential to phenolic yellowing materials | Assessment 1-5 |
| 53. | Textile, Garment, Garment accessories | ITP 085 (Based on BS EN ISO 105 B07:2009; DIN EN ISO 105 B07:2009; ISO 105 B07:2009; GB/T14576-2009) | Colour fastness to light of textiles wetted with artificial perspiration | Assessment 1-5 |
| 54. | Textile, Garment, | ITP 087 (Based on AATCC TM 125:2013) | Colorfastness to Perspiration and Light | Assessment 1-5 |



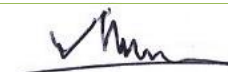
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| | Garment accessories | | | |
| 55. | Textile, Garment, Garment accessories | ITP 084 (Based on ISO 105-B02:2014; DIN EN ISO 105-B02:2014; ISO 105-B02:2013, GB/T 8427-2008) | Colour fastness to artificial light: Xenon arc fading lamp test | Assessment 1-5 |
| 56. | Textile, Garment, Garment accessories | ITP 086 (Based on AATCC TM 16.3-2012) | Colour fastness to light – Xenon-Arc | Assessment 1-5 |
| 57. | Textile, Garment, Garment accessories | ITP 080 (Based on ISO 4920:2012; DIN EN ISO 4920:2012) | Determination of Resistance to Surface Wetting (Spray Test) | Max. 100 |
| 58. | Textile, Garment, Garment accessories | ITP 081 (Based on AATCC 22:2014) | Water Repellency: Spray Test | Max. 100 |
| 59. | Textile, Garment, Garment accessories | ITP 099 (Based on AATCC 162:2011) | Colorfastness to water : Chlorinated Pool | Assessment 1-5 |
| 60. | Textile, Garment, Garment accessories | ITP 108 (Based on AATCC 20:2013) | Fiber Analysis: Qualitative | NA |
| 61. | Textile, Garment, Garment accessories | ITP 097 (Based on GB/T 18886:2002) | Color Fastness to Saliva | Assessment 1-5 |
| 62. | Textile, Garment, Garment accessories | ITP 114 (Based on GB/T 18401:2010 (Clause No. 6.7) | Odour | Positive/negative |
| 63. | Textile, Garment, Garment accessories | ITP 051 (Based on DIN 53160-1:2010) | Colorfastness to Saliva - Part 1: Test with artificial saliva | Assessment 1-5 |
| 64. | Textile, Garment, | ITP 115 (Based on DIN 53160-2:2010) | Colorfastness - Part 2: Test with artificial sweat | Assessment 1-5 |



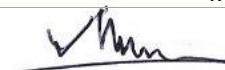
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| | Garment accessories | | | |
| 65. | Textile, Garment, Garment accessories & leather | SOP AL-SL-003-001 (Based on ISO 3071:2005; EN ISO 3071:2005; DIN EN ISO 3071:2006; BS EN ISO 3071:2006, GB/T 7573-2009) SOP AL-SL-003-002 (Based on ISO 4045:2008, EN ISO 4045: 2008; DIN EN ISO 4045: 2008 & BS EN ISO 4045: 2008) SOP AL-SL-003-003 (Based on AATCC 81-2016) | pH Value | 0-14;0.1 |
| 66. | Textile, Garment, Garment accessories, paint & auxiliary chemical | SOP AL-SL-002-001 (Based on ISO 14184-1:2011, GB/T 2912.1:2009, DIN EN ISO 14184-1 - 2011 & BS EN ISO 14184-1: 2011) | Formaldehyde | 5 mg/kg-1500mg/kg; 5mg/kg |
| 67. | Leather | SOP-AL-SL:002-002 (Based on ISO 17226-2:2008, DIN EN ISO 17226-2:2008, BS EN ISO 17226-2:2008; GBT 19941-2005) | Formaldehyde | 5-1500mg/kg; 5mg/kg |
| 68. | Textile, Garment, Garment accessories, | SOP-AL-SL:002-003 (Based on JIS L1041: 2011 PART A & B 3.1) | Formaldehyde | 5-1500mg/kg; 5mg/kg; 0.02 abs |
| 69. | Textile, Garment, Garment accessories | SOP-AL-SL:002-004 (Based on AATCC 112:2014) | Formaldehyde | 5-1500mg/kg; 5mg/kg |
| 70. | Textile, Garment, Garment accessories | SOP-AL-SL:002-005 (Based on AATCC 94 :2017) | Formaldehyde (spot test) | Positive/negative |
| 71. | Textile, Garment, Garment | SOP AL-SL-001-001 (Based on ISO 14362-1:2017, BS EN ISO 14362-1:2017, DIN | Azo Dye Analysis 4-aminobiphenyl (CAS No.: 92-67-1) | 4 mg/kg-5000mg/kg; 4mg/kg |



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| | accessories & leather, paint&auxiliary chemical | EN ISO 14362-1:2017 SOP AL-SL-001-002 (Based on ISO 14362-3:2017, BS EN 14362-3:2017, DIN EN ISO 14362-3:2017, GB/T 23344:2009) SOP-AL-SL:001-003 (Based on ISO17234-1:2015; BS EN 17234-1:2015; DIN EN 17234-1:2015, GB/T 19942:2005) SOP-AL-SL:001-004 (Base on BS EN ISO 17234- 2:2011, ISO17234-1:2011; DIN EN ISO 17234-2:2011) SOP-AL-SL:001-005 (Based on GB/T 17592-2011) | Benzidine (CAS No.: 92-87- 5) 4-chloro-o-toluidine (CAS No.: 95-69-2), 2- naphthylamine (CAS No.: 91-59-8) o-aminoazotoluene (CAS No.: 97-56-3) 5-nitro-o-toluidine (CAS No.: 99-55-8) p-chloroaniline (CAS No.: 106-47-8) 2,4-diaminoanisole (CAS No.: 615-05-4), 4,4- methylenedianiline (CAS No.: 101-77-9) 3,3'-dichlorobenzidine (CAS No.: 91-94-1) 3,3'- dimethoxybenzidine (CAS No.: 119-90-4) 3,3'- dimethylbenzidine (CAS No.: 119-93-7) 4,4'- methylenedi-o-toluidine (CAS No.: 838-88-0) p-cresidine(CAS No.: 120- 71-8) 2,2'-dichloro-4,4'-methylene- dianiline (CAS No.: 101-14- 4) 4,4'-oxydianiline (CAS No.: 101-80-4) 4,4'-thiodianiline (CAS No.: 139-65-1) 2,4-toluylenediamine (CAS No.: 95-80-7) o-toluidine (CAS No.: 95-53- 4) 2,4,5-trimethylaniline (CAS No.: 137-17-7) o-anisidine (CAS No.: 90-04- 0) | |



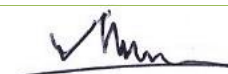
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| 72. | Textile, Garment, Garment accessories & leather | SOP AL-SL-019-001 (Based on BS EN ISO 17353:2005 & DIN 38407-13:2001) | 2,4-xylydine (CAS No.: 95-68-1) 2,6-xylydine (CAS No.: 87-62-7) 4-aminoazobenzene (CAS No.: 60-09-3) Organotin Monobutyltin, Dibutyltin, Tributyltin, Fentin-chloride or triphenyl tin, Tetrabutyltin, Monooctyltin, Di-n-octyltin, Tricyclohexyltin, Methyltin, Dipropyltin Diphenyltin, Tri-propyltin, Tri-octyltin, Di-n-octyltin, Trimethyltin, Dimethyltin, | 0.05mg/kg- 1000mg/kg; 0.05 mg/kg |
| 73. | Leather | SOP AL-SL-008-001 (Based on ISO 17075-1:2017, BS EN ISO 17075-1:2017; DIN EN ISO 17075-1:2017; GB/T 17593.3—2006) | Chromium (VI) Cr(VI) | 1-100 mg/kg; 1mg/kg |
| 74. | Garment & leather accessories | SOP AL-SL-010-001 (Based on ISO/TR 12471:2004) | Nickel (spot test) as Ni release for coated and non- coated metal items | N/A |
| 75. | Garment & leather accessories | SOP-AL-SL: 010-002 (Based on BS EN 1811: 2011+A1:2015; DIN EN 1811:2015; EN 12472: 2005 + A1:2009; DIN EN 12472:2009) | Nickel (Ni) Release for coated and non-coated metal items | 0.04-50 µg/cm ² /week; 0.04 µg/cm ² /week |
| 76. | Textile, Garment, Garment | SOP AL-SL-013-001 (Based on CPSC-CH-E1001- 08.3:2012) | Lead, Pb & Cadmium, Cd for Metal | 5-200000 mg/kg; 5mg/kg |



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|------|--|---|--|---|
| | accessories & leather | | | |
| 77. | Textile, Garment, Garment accessories & leather | SOP AL-SL-013-002 (Based on CPSC-CH-E1002- 08.3:2012; USEPA 3051A, USEPA 3052, BS EN 14602, EN 16711-1:2015; DIN EN 16711-1:2016; GBT 30157- 2013) | Lead, Pb & Cadmium, Cd for Non Metal | 5-200000 mg/kg; 5mg/kg |
| 78. | Textile, Garment, Garment accessories & leather | SOP AL-SL-013-003 (Based on CPSC-CH-E1003- 09_1:2011; 16 CFR 1303 ASTM E1645, ASTM E1613; ASTM F963 96a, sec.4.3.5 ASTM F963-03, sec 4.3.5, ASTM F963-07, sec 4.3.5; GBT 30157-2013) | Lead, Pb & Cadmium, Cd for Paint & surface coating | 5-200000 mg/kg; 5mg/kg |
| 79. | Textile, Garment, Garment accessories & leather | SOP AL-SL-013-003 (Based on EN 16711-1:2015 & GB/T 30157:2013) | Mercury, Arsenic, Cadmium, Lead, Nickel, Silver, Cobalt, Copper, Zinc, Antimony, Boron, Tin, Barium, Aluminum, Chromium, Selenium, Manganese, Strontium, Iron for Paint & surface coating | Hg: 0.5-100mg/kg As, Cd, Pb, Ni, Ag: 1-5000mg/kg Cu, Co, Zn, Sb, B, Sn, Ba, Al, Cr, Se, Mn, Sr, Fe: 5- 200000 mg/kg |
| 80. | Textile, Garment, Garment accessories Leather, board, Wood, Wool and Paper | SOP AL-SL-006-001 (Based on ISO 17070:2015, BS EN ISO 17070:2015, DIN EN ISO 17070:2015; GB/T 18414. 1—2006) | Chlorinated Phenol & o- phenylphenol (OPP) Pentachlorophenol (PCP) 2,3,4,5-Tetrachlorophenol (2,3,4,5-TeCP) 2,3,4,6-Tetrachlorophenol (2,3,4,6-TeCP) 2,3,5,6-Tetrachlorophenol (2,3,5,6-TeCP) 2,4,6-Trichlorophenol (2,4,6- TCP) 2,3,5-Trichlorophenol (2,3,5- TCP) 2,3,6-Trichlorophenol (2,3,6- TCP) | 0.05-100mg/kg; 0.05mg/kg |



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| | | | 3,4,5-Trichlorophenol (3,4,5-TCP) 2,3,4-Trichlorophenol(2,3,4-TCP) 2,4,5-Trichlorophenol (2,4,5-TCP) 2-Chlorophenol 3-Chlorophenol 4-Chlorophenol 2,6-Dichlorophenol (2,6-DCP) 2,5-Dichlorophenol (2,5-DCP) 2,4-Dichlorophenol (2,4-DCP) 3,5-Dichlorophenol (3,5-DCP) 2,3-Dichlorophenol (2,3-DCP) 3,4-Dichlorophenol (3,4-DCP) 4-Chloro-3-Methylphenol | |
| 81. | Textile, Garment, Garment accessories & Leather,paint&a uxiliarychemical | SOP AL-SL:004-001 (Based on DIN 54231:2005) | Allergenic & Carcinogenic dyestuff Disperse Blue 1; Disperse Blue 3; Disperse Blue 7 ; Disperse Blue 26; Disperse Blue 35; Disperse Blue 102; Disperse Blue 106; Disperse Blue 124; Disperse Brown 1;Disperse Orange 1; Disperse Orange 3; Disperse Orange 11; Disperse Orange 37/76/59; Disperse Orange 149 ; Disperse Red 1; | 10-750mg/kg, 1mg/L or 10mg/kg |



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|------|--|--------------------------|--|---|
| | | | Disperse Red 11; Disperse Red 17; Disperse Yellow 1; Disperse Yellow 3; Disperse Yellow 9; Disperse Yellow 23; Disperse Yellow 39; Disperse Yellow 49; Basic Violet 1; Basic Violet 3; Basic Violet 14; Basic Red 9; Solvent yellow 1; Solvent yellow 3; Solvent yellow 14; Direct Black 38; Direct Blue 6; Direct Red 28 Acid Red 26 ; Direct brown 95; Solvent yellow 2; Michler's Base; Michler's Ketone; Disperse Black 2; Disperse Yellow 7; Basic Green 4; Solvent Red 23; Solvent Blue 4; Direct Blue 15; Basic Blue 26 Acid Red 73; Acid Red 114; Navy Blue 18112 ; AcidViolet 49; Basic Green 4 ; 1,4-Phenylenediamine; Disperse Yellow 56 ; Disperse Yellow 54; Disperse Red 7; 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol | |
| 82. | Textile, | SOP AL-SL:009-001 (Based | Polyvinyl chloride | N/A |



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|------|---|--|--|---|
| | Garment, Garment accessories & leather | on In house method) | | |
| 83. | Textile, Garment, Garment accessories & leather | SOP AL-SL:007-001 (Based on DIN 54232:2010; GB/T 20384—2006) | Chlorinated Toluene & Benzene 2-Chlorotoluene 3-Chlorotoluene 4-Chlorotoluene 2,3-Dichlorotoluene 2,4-Dichlorotoluene 2,5-Dichlorotoluene 2,6-Dichlorotoluene 3,4-Dichlorotoluene 2,3,6-Trichlorotoluene 2,4,5-Trichlorotoluene Pentachlorotoluene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene, 1,3,5-Trichlorobenzene 1,2,3,4-Tetrachlorobenzene 1,2,3,5-Tetrachlorobenzene 1,2,4,5-Tetrachlorobenzene PentachlorobenzeneHexachl orobenzene, Monochlorobenzene, a,a,a-Trichlorotoluene a,2,6- Trichlorotoluene, a,a,a,2-Tetrachlorotoluene, a,a,a,4-Tetrachlorotoluene, a,3,4-Trichlorotoluene | 0.1-100mg/kg; 0.1mg/kg |
| 84. | Textile, Garment, Garment accessories & leather | SOP AL-SL:005-001 (Based on CPSC-CH-C1001- 09.4: 2018) | Phthalate di-n-butylphthalate (DBP) butylbenzylphthalate (BBP) di(ethylhexyl) phthalate (DEHP) | 0.015-25%; 0.015% or 150mg/kg |



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|------|---|--|---|---|
| 85. | Textile, Garment, Garment accessories & leather, paint&auxiliary emical | SOP AL-SL: 005-005 (Based on ISO 14389: 2014; DIN EN ISO 14389:2014) | di-isononylphthalate (DINP) di-iso-decylphthalate (DIDP) di-n-octylphthalate (DnOP) Phthalate di-n-butylphthalate (DBP) butylbenzylphthalate (BBP) di(ethylhexyl) phthalate (DEHP) di-isononylphthalate (DINP) di-iso-decylphthalate (DIDP) di-n-octylphthalate (DnOP) Di-iso-butylphthalate (DIBP) dimethoxyethylphthalate (DMEP) di-iso-pentylphthalate (DiPP) n-pentyliso-pentylphthalate (PiPP) di-n-pentylphthalate (DnPP) dimethylphthalate (DMP) diethylphthalate (DEP) di-n- propylphthalate (DnPrP) di-n-hexylphthalate (DnHP) diundecylphthalate (DUP) 1,2-benzenedicarboxylic acid, di-C7- 11 branched and linear alkylesters (DHNUP) Diisoheptylphthalate (DIHP) dicyclohexylphthalate (DCHP) Butyloctylphthalate (BOP) Di-iso-hexylphthalate (DIHxP) 1,2 Benzenedicarboxylic acid, dip entylester, branched & linear. (DPP) Di-n-hexylphthalate (DnHxP) Diisooctylphthalate (DIOP) Dinonylphthalate (DNP) | 0.005-25%; 0.005% or 50mg/kg |



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|------|---|--|--|--|
| | | | Diheptylphthalate (DHP) | |
| 86. | Textile, Garment, Garment accessories & leather | SOP-AL-SL: 005-001 (Based on EN 15777 &GBT 20388- 2016) | Phthalate di-n-butylphthalate (DBP) butylbenzylphthalate (BBP) di(ethylhexyl) phthalate (DEHP) di-isononylphthalate (DINP) di-iso-decylphthalate (DIDP) di-n-octylphthalate (DnOP) | 0.015-25%; 0.015% or 150mg/kg |
| 87. | Textile, Garment, Garment accessories | SOP AL-SL:017-001 (Based on DIN 54233-3:2010; DIN EN 16711-2:2016; EN 16711- 2:2015) SOP AL-SL:017-002 (Based on DIN 54233-3:2010) SOP AL-SL:017-003 (Based on In-house method) | Extractable Heavy metal as Arsenic (As) Lead (Pb) Cadmium (Cd) Chromium (Cr) Chromium VI (Cr-VI) Mercury (Hg) Antimony (Sb) Selenium (Se) Copper (Cu) Nickel (Ni) Barium (Ba) Cobalt (Co) Manganese (Mn) Zinc (Zn) Tin (Sn) | Pb & As: 0.05-100 mg/kg Cr, CrVI, Co, Ni: 0.3-100 mg/kg, Cd: 0.04- 100mg/kg, Hg: 0.01-50mg/kg, Others: 5- 2000mg/kg |
| 88. | Textile, Garment, Garment accessories & leather, paint&auxiliarych emical | SOP AL-SL:016-001 (Based on EN 71- 3:2013+A3:2018) | Migration of Certain Element or Toxicity or Soluble Heavy Metal Chromium, Cr Cobalt (Co) Nickel (Ni) Copper, Cu Arsenic (As) Antimony (Sb) Lead (Pb) Cadmium (Cd) Mercury (Hg) Manganese (Mn) Selenium (Se) Barium (Ba) Tin (Sn) | Cr& CrVI:0.15- 1000 mg/kg Co&Pb: 2-500 mg/kg Ni: 2-2000 mg/kg Cu: 10-15000 mg/kg As: 0.5-100 mg/kg Sb: 5-1000 mg/kg Cd: 0.3-100 mg/kg Hg: 1-200 mg/kg Mn& B:10-30000 mg/kg Se &Sn :2-100 mg/kg |



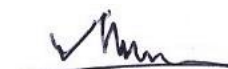
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|------|---|---|---|--|
| | | | Zinc (Zn) Boron (B) Strontium (Sr) Aluminium (Al) | Ba:10-40000 mg/kg Zn, Al & Sr: 10- 100000 mg/kg |
| 89. | Textile, Garment, Garment accessories & leather | SOP-AL-SL: 011-001 (Based on ISO/TS 16186:2012) | DIMETHYL FUMARATE (DMFu) | 0.05-100mg/kg; 0.05mg/kg |
| 90. | Textile, Garment, Garment accessories & leather, paint&auxiliary chemical | SOP-AL-SL: 012-001 (Based on In-House, EC 1907/2006 REACH, Annex XVII (previous Directive 2003/53/EC; ISO 18254- 1:2016; DIN EN ISO 18254- 1:2016; SN/T 1850.1-2006, SN/T 1850. 2-2006 & GB/T 23322-2009) | Alkylphenol (AP) &Alkylphenol Ethoxylate (APEO) Nonyl phenol ; 4-tert-Octyl phenol ; 4-n-Octyl phenol ; Pentyl phenol; Heptyl phenol Octyl phenol ethoxylate ; Nonyl phenol ethoxylate; | 3-5000mg/kg; 3mg/kg |
| 91. | Textile, Garment, Garment accessories & leather | SOP-AL-SL: 020-001 (Based on ZEK 01.4-08; EPA 610, AfPS GS 2014:01 PAK- EN) | Polycyclic aromatic hydrocarbon (PAHs) Naphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene 1-Methylpyrene Benzo[a]anthracene, Chrysene Benzo(c)phenanthrene Cyclopenta[c,d]pyrene 7,12- Dimethylbenz(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(j)fluoranthene | 0.2mg/kg to 1000mg/kg; 0.2mg/kg |



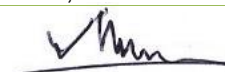
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|------|---|---|--|--|
| | | | Benzo(e)pyrene Benzo(a)pyrene 3-Methylcholanthrene Dibenzo[a,h]anthracene Benzo[g,h,i]perylene Indeno(1,2,3-CD)pyrene Dibenzo[a,l]pyrene Dibenzo[a,h]pyrene Dibenzo[a,i]pyrene Dibenzo[a,e]pyrene | |
| 92. | Textile, Garment, Garment accessories & leather | SOP-AL-SL: 021-001 (Based on EN ISO 18219) | SCCP, MCCP | 0.2 mg/kg to 2000 mg/kg; 0.2 mg/kg |
| 93. | Textile, Garment, Garment accessories & leather | SOP-AL-SL: 021-001 (In House Method) | BPA (Bisphenol-A) | 0.1 mg/kg to 2000 mg/kg; 0.1 mg/kg |
| 94. | Textile, Garment, Garment accessories & leather | SOP AL-018-001 (Based on CEN_TS_15968; GB/T 24169-2009) | PFOA/ PFOS/ PFCs | 0.01 mg/kg to 1000 mg/kg; 0.01 mg/kg |
| 95. | Water& Waste water | SOP EL-SL-001-001 (Based on USEPA 150.1) | pH Value | 0-14 |
| 96. | Water& Waste water | SOP EL-SL-002-001(Based on APHA/SM 2340 B) | Hardness | 5-500mg/L; 5mg/L |
| 97. | Sludge | SOP EL-SL-003-001 (In House) | Moisturecontent | 1.0-99% |
| 98. | Water& Waste water | SOP EL-SL-004-001 (Based on APHA/SM 2540C) | Total DissolvedSolid (TDS) | 5-500mg/L; 5mg/L |
| 99. | Water& Waste water | SOP EL-SL-005-001 (Based on APHA/SM 2540D) | Total SuspendedSolid (TSS) | 5-500mg/L; 5mg/L |
| 100. | Water& Waste water | SOP EL-SL-006-001 (Based on APHA/SM 2120B) | Color | 5-1000 Pt-Co unit; 5Pt-Co |
| 101. | Water& Waste water | ISO 7887Method B | Color | 0.01-1.5 m-1; 0.01 m-1 |
| 102. | Water& Waste | SOP EL-SL-007-001 (Based | ChemicalOxygenDemand, | 5-2000mg/L; |



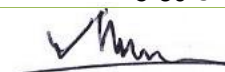
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|------|--|--|---|---|
| | water | on APHA/SM 5220D) | COD | 5mg/L |
| 103. | Water& Waste water | SOP EL-SL-008-001 (Based on APHA/SM 5210B) | BiologicalOxygenDemand, BOD | 5-500mg/L; 5mg/L |
| 104. | Water& Waste water | SOP EL-SL-009-001 (Based on APHA/SM 4500-S2-D) | Sulfide | 0.01-10.0 mg/L; 0.01mg/L |
| 105. | Water& Waste water | SOP EL-SL-010-001 (Based on APHA/SM 4500 NH3-N) | Ammonium | 0.5-100 mg/L; 0.5mg/L |
| 106. | Water& Waste water | SOP EL-SL-011-001 (Based on APHA/ SM 5520B, USEPA 1664) | Oil&Grease | 0.5-500 mg/L; 0.5mg/L |
| 107. | Water& Waste water | SOP EL-SL-012-001 (Based on SM / APHA 4500 P B&E, APHA/SM 4500 P-J) | Total phosphorus | 0.1-50 mg/L; 0.1mg/L |
| 108. | Water& Waste water | SOP EL-SL-013-001 (Based on SM/APHA 2320 B), | Alkalinity | 5-1000 mg/L; 5mg/L |
| 109. | Water& Waste water | SOP EL-SL-014-001 (Based on APHA/SM 4500 CN) | Cyanide | 0.05-20 mg/L; 0.05mg/L |
| 110. | Water& Waste water | SOP EL-SL-015-001 (Based on APHA/SM 5530 B, C & D) | Phenol | 0.001-5 mg/L; 0.001mg/L |
| 111. | Water& Waste water | SOP EL-SL-016-001 (Based on USEPA 377.1, ISO 10304- 3) | Sulfite | 0.2-50 mg/L; 0.2mg/L |
| 112. | Water& Waste water | SOP EL-SL-017-001 (Based on USEPA 1650, ISO 9562) | AbsorbableorganicHalogen, AOX | 0.1-50 mg/L; 0.1mg/L |
| 113. | Water& Waste water | SOP EL-SL-018-001 (Based on APHA/SM 4500N-C, ISO 5663, ISO 29441, USEPA 351.2) | Total Nitrogen | 5-500 mg/L; 5mg/L |
| 114. | Water& Waste water | SOP EL-SL-019-001 (Based on USEPA 200.8, USEPA 6010c, USEPA 6020a, ISO 11885, ISO 12846, USEPA 218.6, ISO 18412) | Heavy Metals | Hg, CrVI: 0.001-1 mg/L; Cd, Pb, Sb&Co: 0.01-10mg/L As, Ag: 0.005- 5mg/L; Cr&Ni: 0.05- 50mg/L; Cu: 0.25-500 mg/L; Zn:0.5-500mg/L |
| 115. | Water& Waste | SOP EL-SL-020-001 (Based | Temperature | 5-80°C |



Quality Manager

SCOPE OF ACCREDITATION

(For Testing Laboratory)

CAB Name & Address: **UL VS Bangladesh Ltd.**
 The Pearl Trade Center (5th, 14th and 15th floor), Cha-90/3, Progoti Sharani
 North Badda, Dhaka-1212, Bangladesh

Accreditation Standard: ISO/IEC 17025:2005 **Accreditation Date:** 10 September 2015

Certificate Number: 01.030.15 **Issued on:** 01 October 2018

Last Amended on: 18 March 2019 **Valid until:** 30 September 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 |
|------|--|-------------------------|---|---|
| | water | on USEPA 170.1) | | |

END



Quality Manager