



Bangladesh Accreditation Board (BAB)

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Email: info@bab.org.bd Web: www.bab.org.bd

Certificate of Accreditation

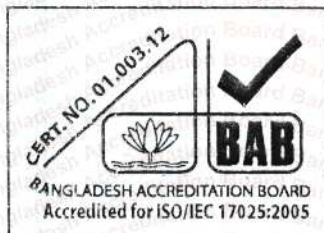
This is to certify that

SGS Bangladesh Limited

Noor Tower (2nd, 6th – 10th & 13th floor),
110 Bir Uttam C. R. Datta Road, Dhaka-1205, Bangladesh.

has been granted accreditation in respect of the scope of accreditation described in the attached document, subject to the terms and conditions governing the relevant Conformity Assessment Body (CAB) accreditation

This Testing Laboratory having met the requirements of ISO/IEC 17025:2005 and the BAB, is accredited for Textile Testing as described in the associated Scope of Accreditation.



Certificate Number : 01.003.12

Issued on : 31 December 2017

Accreditation Date : 04 November 2012

Valid until : 03 November 2020

Md. Monwarul Islam
Director General

Bangladesh Accreditation Board (BAB)

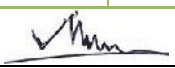
SCOPE OF ACCREDITATION

(For Testing Laboratory)

CAB Name & Address: SGS Bangladesh Limited
 Noor Tower, 110 Bir Uttam C. R. Datta Road, Dhaka-1205, Bangladesh

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| Accreditation Standard: | ISO/IEC 17025:2005 | Accreditation Date: | 04 November 2012 |
| Certificate Number: | 01.003.12 | Issued on: | 31 December 2017 |
| Last Amended on: | 13 Nov 2019 | Valid until: | 03 November 2020 |
| Amendment no: | 03 | | |

| 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 | | | | |
| 1 | Textiles, garments & accessories | Breaking strength and elongation (Grab test) | ASTM D5034 - 09 (R2017) ISO 13934-2:2014 BS EN ISO 13934-2:2014 CAN/CGSB 4.2 NO. 9.2- M90 (R2013), AS 2001.2.3.2-2001 JIS L1096:2010 | 10 to 5000 N |
| | | Breaking force and elongation (Strip method) | ASTM D5035 - 11(R2015), BS 2576:1986, ISO 13934- 1:2013, BS EN ISO 13934- 1:2013, CAN/CGSB 4.2 NO. 9.1- M90 (R2013), AS 2001.2.3.1-2001 (2016), JIS L1096:2010 | 10 to 5000 N |
| 2 | Textiles, garments & accessories | Tensile properties of yarns single-strand method | ASTM D2256 – 10(R2015), BS EN ISO 2062:2009, ISO 2062:2009, DIN EN ISO 2062:2010 | 0.5 to 500 N |
| 3 | Textiles, garments & accessories | Bursting strength –Diaphragm –Pneumatic | ASTM D3786/ D3786 - 2013, BS 4768:1972, ISO 13938-1:1999, BS EN ISO 13938-1:1999, CAN/CGSB 4.2 No.11.1-94 (R2013), BS EN ISO 13938-2:1999, ISO 13938-2:1999, JIS L1096:2010 | 5 to 200 psi |
| | | Bursting strength Ball bursting | ASTM D3787 - 16 CAN/CGSB 4.2 No.11.2-M 89 (R2013), GB/T 19976- 2005 | 5 to 200 psi |
| 4 | Textiles, garments & accessories | Seam properties Seam slippage | BS 3320:1988, ISO 13936-1:2004 BS EN ISO 13936-1:2004, ISO 13936-2:2004, BS EN ISO 13936-2:2004, AS 2001.2.22-2006, ASTM D434 - 95 | 10 to 5000 N |
| | | Seam properties | ISO 13935-1:2014, | 10 to 5000 N |


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| | | Seam strength | BS EN ISO 13935-1:2014, ISO 13935-2:2014 BS EN ISO 13935-2:2014, ASTM D1683 - 17, AS 2001.2.20-2016 ISO 13936-1:2004, ISO 13936-2:2004, BS 3320:1988 | |
| 5 | Textiles, garments & accessories | Tearing strength of fabrics (Elmendorf) | ASTM D1424 – 09 (2013), ISO 13937-1:2000 (Cor1:04), DIN EN ISO 13937-1:2000, BS EN ISO 13937-1:2000, AS 2001.2.8-2001 (R2016), CAN/CGSB-4.2 No.12.3-2005, DIN EN ISO 4674-2:1998, BS EN ISO 4674-2:1998, JIS L1096:2010 | 1 to 300 N |
| | | Tearing strength of fabrics (Single rip) | ASTM D2261 – 13 (2017), BS 4303:1968, ISO 13937-2:2000, BS EN ISO 13937-2:2000, ISO 13937-3:2000, BS EN ISO 13937-3:2000, ISO 4674-1:1998, JIS L1096:2010 | 1 to 5000 N |
| | | Tearing strength of fabrics (Double tear) | ISO 13937-4:2000 | 1 to 5000 N |
| 6 | Textiles, garments & accessories | Abrasion resistance (Martindale) | ISO 12947-1:1998/Cor.1 2002, ISO 12947-2:2016, ISO 12947– 3:1998/ Cor.1 2002, ISO 12947–4:1998/ Cor.1 2002, BS EN ISO 12947-1:1998, BS EN ISO 12947-2:2016, BS EN ISO 12947-3:1998, BS EN ISO 12947-4:1998, DIN EN ISO 12947-1:2007, DIN EN ISO 12947-2:2027, DIN EN ISO 12947-3:2007, DIN EN ISO 12947-4:2007, BS | 1 to 5 Grade 1 to 50% |


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| | | | 5690:1991, ASTM D4966 – 12(2016) | |
| | | Abrasion resistance (Accelerator) | AATCC 93 - 2016 | 1 to 5 Grade 1 to 50% |
| 7 | Textiles, garments & accessories | Pilling resistance (Pilling box) | DIN EN ISO 12945-1:2001- 08, BS EN ISO 12945- 1:2001, CAN/CGSB 4.2 No. 51.1-95, ISO 12945-1:2000, BS 5811:1986 | 1 to 5 Grade |
| | | Pilling resistance (Martindale) | ASTM D4970 - 2010, DIN EN ISO 12945-2:2000, BS EN ISO 12945-2:2000, ISO 12945-2:2000, GB/T 4802.1- 2008 | 1 to 5 Grade |
| | | Pilling resistance (Random tumbler) | ASTM D3512 - 2016 CAN/CGSB 4.2 No. 51.2 M- 87, ISO 12945-3:2014, JIS L 1096 :2010 Method A | 1 to 5 Grade |
| 8 | Textiles, garments & accessories | Yarn number based on short length specimens | ISO 7211-5:1984, BS 5441:1988, ASTM D1907 – 2012, ISO 2060:1994, BS EN ISO 2060:1995, BS 2865:1984, ASTM D1059–2017 | 1 to 200'S |
| 9 | Textiles, garments & accessories | Mass per unit area of fabric | ASTM D3776/ D3776 M–09 (2017) DIN EN 12127:1998, BS EN 12127:1998, ISO 3801:1977 AS 2001.2.13:2016 CAN/CGSB 4.2 No.5.1-M 90 (R2013), BS 2471:2005 | 1 to 1000 g/m ² |
| 10 | Textiles, garments & accessories | Threads per unit length | ASTM D3775 – 2012, DIN EN 1049-2:1994-02, BS EN 1049-2:1994-02, AS 2001.2.5 – 1991, ISO 7211- 2:1984, CAN/CGSB 4.2 NO. 6-2013, ASTM D3887 – 96 (2008), AS 2001.2.6:2001 (R2016), CAN/CGSB 4.2 NO. 7-M 88 (R2001) | 1 to 500 per inch |


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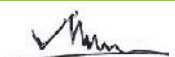
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| 11 | Textiles, garments & accessories | Stitch density | CAN/CGSB 4.2 NO.7 M-88 (2001), BS 5441:1988, AS 2001.2.6:2001 (2016), BS EN 14970:2006 | 1 to 500 per inch |
| 12 | Textiles, garments & accessories | Crimp/ take up of yarn | ISO 7211-3:1984 BS ISO 7211-3:1984 ASTM D3883:2004 (R2016), BS 2863:1984 | 1 to 90% |
| 13 | Textiles, garments & accessories | Fabric thickness | ISO 5084:1996, DIN EN ISO 5084:1996, ASTM D1777 – 96 (2015) | 0.01 to 11.00 mm |
| 14 | Textiles, garments & accessories | Cover factor | In house method: (BD-TX-MC-SOP-025-01) | 1 to 100 |
| 15 | Textiles, garments & accessories | Fabric width | ASTM D3774 - 96 (R2016), BS EN 1773:1997, AS 2001.2.12:1987(2016) CAN/CGSB 4.2 No.4.1- 2008, ISO 22198:2006 | 1 to 200 cm |
| 16 | Zipper | Zipper strength | BS 3084:2006, ASTM D2061 – 07(2013), 16 CFR 1500.53, NFG 91-005:1984, DIN 3419-1:1998-05, AS 2332:2003, ASTM D2062 - 03(2014), EN 16732:2015 | 1 to 5000 N |
| 17 | Button | Button strength | BS 4162:1983 | 1 to 500 N |
| 18 | Textiles, garments & accessories | Impact resistance of plastic sew | ASTM D5171 - 15 BS 4162:1983 | Height 32 to 120 mm |
| 19 | Textiles, garments & accessories | Resistance to unsnapping of snap fastness | ASTM D4846–96 (2016) | 0.1 to 100 lbf |
| 20 | Textiles, garments & accessories | Bonding strength | ASTM D2724–07(2015) | 0.5 to 1000 lbf/in |
| 21 | Textiles, garments & accessories | Lea strength | ASTM D1578–93 (2016) | 1 to 1000 lbf |
| 22 | Textiles, | Stretch and recovery/ tension | ASTM D4964–96 (2016) | 1 to 500% |


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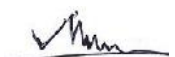
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| | garments & accessories | & elongation of elastic fabrics | BS 4952:1992, ASTM D2594 - 04(2016), ASTM D3107 - 07(2015), BS EN 14704-1:2005, BS 294:1968 | |
| 23 | Textiles, garments & accessories | Wrinkle/ crease recovery | AATCC TM 66-2014, ISO 2313:1972, BS EN 22313:1992, AATCC TM 128 – 2013, ISO 9867:2009 | 1 to 180° |
| 24 | Textiles, garments & accessories | Attachment/ pull off strength of snap/ button/ rivets | BS EN 71 Part-1:2014, BS 7907:2007, ASTM F963–2016 Sec-4.8, Sec-8.5, Sec-8.7, Sec-8.8, Sec-8.9 & Sec-8.10, 16 CFR 1500.51-53, EN 71 Part-1:2014, ASTM D6644:01 (2013), PD CEN/TR 16792:2014 | 1 to 3000 N |
| 25 | Textiles, garments & accessories | Twist in yarns (Direct counting method) | ISO 2061:2010, BS EN ISO 2061:2010, DIN EN ISO 2061:2010, ASTM D1423–16, BS 2864:1984 | 1 to 100 TPI |
| 26 | Textiles, garments & accessories | Determination of twist in yarn removed from fabric | ISO 7211-4:1984, BS 2864:1984 | 1 to 100 TPI |
| 27 | Textiles, garments & accessories | Measurement of bow & skewness | ASTM D3882–08 (2016), ISO 13015:2013, NF G07-163:1990 | 0.1 to ± 50 cm |
| 28 | Textiles, garments & accessories | Air permeability | ISO 9237:1995, BS EN ISO 9237:1995, ASTM D737:04 (2016), DIN 53887:1993 | 1 to 2800 mm/s |
| 29 | Textiles, garments & accessories | Wicking of textiles | AATCC TM 198-2013, AATCC TM 197-2013 | 1 to 200 mm |
| 30 | Textiles, garments & accessories | Snagging resistance | BS 8479:2008 | 1 to 5 Grade |
| 31 | Textiles, garments & accessories | Fibre shedding (for pile fabrics) | In house method: (BD-TX-MC-SOP-017-01) | 1 to 5 Grade |
| 32 | Textiles, garments | Safety of children's clothing | EN 14682: 2014, BS EN 14682:2014 | Qualitative |


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| | &accessories | | | |
| 33 | Textiles, garments, toys products (textile, metal, glass, plastic, stone, leather accessories) in garments, metal jewellery& other article intended to use for children | Small parts – choking hazard test (Small part cylinder of 31.7 mm inner diameter) | 16 CFR 1501, (Small Parts) ASTM F963-2016, Sec-4.6 (Small Parts) | Qualitative |
| 34 | Textiles, garments, toys products (textile, metal, glass, plastic, stone, leather accessories) in garments, metal jewellery& other article intended to use for children | Determination of sharp points under a force | 16 CFR 1500.48 (Sharp Point) ASTM F963-2016, Sec-4.9 (Sharp Point) | Qualitative |
| 35 | Textiles, garments, toys products (textile, metal, glass, plastic, stone, leather accessories) in garments, metal jewellery, other article intended to use for children | Determination of sharp edges | 16 CFR 1500.49 (Sharp edges), ASTM F963-2016, Sec-4.7 (Sharp edges), | Qualitative |
| 36 | Textiles, garments & accessories | National general safety technical code for textile products | GB 18401-2010 | N/A |
| 37 | Textiles, | Safety technical Code for | GB 31701-2015 | |


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| | garments & accessories | infants and children textile products | | N/A |
| 38 | Textiles, garments & accessories | Women's suits and coats | GB/T 2665-2017 | N/A |
| 39 | Textiles, garments & accessories | Knitted T-shirt | GB/T 22849-2014 | N/A |
| 40 | Textiles, garments & accessories | Knitted sportswear | FZ/T 73020-2012 | N/A |
| 41 | Textiles, garments & accessories | Casual wear | FZ/T 81007-2012 | N/A |
| 42 | Textiles, garments & accessories | Standard safety size for drawstrings on children's upper wear | GB/T 22702-2008 | N/A |
| 43 | Textiles, garments & accessories | Safety specifications for cords & drawstrings on children's clothing | GB/T 22705-2008 | N/A |
| 44 | Textiles, garments & accessories | Testing method for sharpness of attached components on textile products | GB 31702-2015 | N/A |
| 45 | Textiles, garments & accessories | Textile products determination of the remains of broken sewing Needle | GB/T 24121-2009 | N/A |
| 46 | Textiles, garments & accessories | Textiles determination of the slippage resistance of yarns at a seam in woven fabrics part-1 & part-2 | GB/T 13772.1-2008 GB/T 13772.2-2008 | N/A |
| 47 | Textiles, garments & fabrics | Solar UV protective properties | EN 13758-1:2001+A1:2006, EN 13758-2:2003+A1:2006, AATCC 183:2014, AS/NZS 4399:2017 | UPF 1- 50000 |
| 48 | Textiles, garments & accessories | Flammability of general clothing Textiles | CPSC 16 CFR PART 1610 - 2008, ASTM D1230 – 2010, CAN/CGSB 4.2 NO. 27.5-2008, GB/T 14644:2014 | 1 to 100 sec. |
| | | Burning behavior of nightwear/ children's nightwear | EN 1103 :2005, BS EN 1103 :2005, EN 14878:2007, BS EN 14878:2007, | 1 to 3600 sec. |


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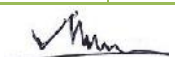
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| | | | DIN EN 14878:2009, SI 1985 No.2043, BS 5722:1991 | |
| | | Burning behavior – Measurement of flame spread properties of vertically oriented specimens | ISO 6941:2003, BS EN ISO 6941:2003, BS 5438:1989 | 1 to 3600 sec. |
| | | Flammability of children's sleepwear | 16 CFR 1615 - 2010, 16 CFR 1616 - 2010 | 1 to 10 inch |
| | | Determination of surface burning time of fabrics | ISO 10047:1993 | 1 to 3600 sec. |
| | | Children's night Wear & Limited daywear | AS/NZS 1249:2014 | 1 to 3600 sec. |
| | | Burning behavior of bedding item | ISO 12952-1:2010 | 1-6000 sec. |
| 49 | Paper & paper board items | Bursting strength of corrugated and solid fibre board | TAPPI T810 om-11, ISO 2759: 2014, In-house (BD-TX-MC-SOP-001-04) | 1 to 50 kgf/cm ² |
| 50 | Paper & paper board items | Grammage of paper and paper board (Mass per unit area) | TAPPI T410 om-13, ISO 536:2012, ASTM D646 - 2013 | 1 to 2000 g/m ² |
| 51 | Paper & paper board items | Edgewise crush resistance | ISO 3037:2013, TAPPI T811 om-11 | 1 to 2000 N |
| 52 | Leather & leather products | Determination of tensile strength | ISO 3376:2011 BS EN 13522:2002 ASTM D2209 - 00(2015) ASTM D2208 – 2016 | 1 to 5000 N |
| 53 | Leather & leather products | Determination of tear strength | ASTM D4705-13, ASTM D4704-13, ISO 3377-1: 2011, ISO 3377-2:2002, ASTM D2212:2010, ISO 17696:2004, TM 162:1992, TM 30:1995, EN 13571:2000 | 1 to 5000 N |
| 54 | Leather & leather products | Determination of abrasion resistance of soiling material | ISO 4649:2010, ISO 20871: 2001, ISO 17704:2004, ASTM D5963-04, EN 13520: 2001, BS EN 12770:2000 | 10 to 5000 mm ³ |
| 55 | Leather & leather products | Determination of bursting strength | ISO 3379:1976 | 1 to 80 kgf |
| 56 | Leather & leather products | Determination of measurement of thickness | ISO 2589:2002 | 0.01 to 19.00 mm |


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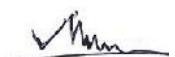
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| 57 | Leather & leather products | Resistance of footwear to flexing (whole shoe flexing test) | TM 92:2016 | N/A |
| 58 | Leather & leather products | Flexing resistance of upper material - bally flex meter | TM 55:1999, ISO 17694:2016, EN 13512:2002 | N/A |
| 59 | Leather & leather products | Lateral impact test for shoe heels | TM 20:2017, BS EN ISO 19953:2004 | N/A |
| 60 | Leather & leather products | Fatigue test for shoe heels | TM 21:2017, BS EN ISO 19956:2004 | N/A |
| 61 | Leather & leather products | Rose flex test – resistance to cut growth of flexing | TM 60:1992, BS 5131 Sec-2.1:1991, GB 20265:2016, ISO 5423:1992 | 0.1-25.0 mm |
| 62 | Leather & leather products | Strength of sandal toe posts | TM 118:1992 | 1-5000 N |
| 63 | Leather & leather products | Strength of top-piece attachment | TM 108:1992, BS EN ISO 19958:2004 | 1-5000 N |
| 64 | Leather & leather products | Rapid sole adhesion test for complete footwear | TM 404:1992, BS 5131 Sec-5.1:1990 | 1-5000 kgf |
| 65 | Leather & leather products | Shoe lace to shoe lace and shoe lace to carrier abrasion test | TM 154:1992, BS EN ISO 22774:2004 | 1-99999 Cycles |
| 66 | Leather & leather products | Breaking force and extension at break of shoe laces | TM 94:2018, BS 5131 Sec-3.7:1991 | 1-5000 N |
| 67 | Leather & leather products | Strength of eyelet facings and others laced fastening | TM 149:1999 | 1-5000 N |
| 68 | Leather & leather products | Measurement of the strength of attachment of heels to footwear and ie back part rigidity of such footwear | TM 113:1996, ISO 22650:2018, BS 5131 Sec-5.10:1990, ASTM F694-80, BS EN 12785:2000 | 1-5000 N |
| 69 | Leather & leather products | Peel strength of footwear sole bond | TM 411:1992, BS EN ISO 17708:2018, BS 5131 Sec-5.4:1978 | 1-5000 N |
| 70 | Leather & leather products | Tab strength test | TM 165:1992 | 1-5000 N |
| 71 | Leather & leather products | Friction (slip resistance) of footwear and flooring test | TM 144:2011, BS EN ISO 13287:2012 | 0.1-1.0 C of F |
| Field: CHEMICAL | | | | |


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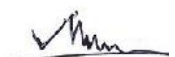
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| 1 | Textiles, garments & accessories | Dimensional change to washing | AATCC TM 135-2015, AATCC TM 150-2012, ISO 6330:2012, ISO 5077:2007, AS 2001.5.4:2005, BS EN ISO 5077:2008, BS EN ISO 6330:2012, ISO 3759:2011, CAN/CGSB 4.2 NO. 58-04, GB/T 8629-2001 | 0 to ± 30% |
| 2 | Textiles, garments & accessories | Dimensional change to dry cleaning | In-house method: (BD-TX-CH-SOP-002-04) | 0 to ± 30% |
| 3 | Textiles, garments & accessories | Appearance of fabric after repeated home laundering | AATCC TM 124-2014, ISO 7768:2009, BS ISO 7768:2009 | Grade: SA -1 to SA - 5 |
| 4 | Textiles, garments & accessories | Smoothness of seams in fabrics after repeated home laundering | AATCC TM 88B-2014, ISO 7770:2009, BS ISO 7770:2009 | Grade: SS -1 to SS - 5 |
| 5 | Textiles, garments & accessories | Retention of creases in fabrics after repeated home laundering | AATCC TM 88C-2014, ISO 7769:2009, BS ISO 7769:2009 | Grade: CR -1 to CR - 5 |
| 6 | Textiles, garments & accessories | Appearance of apparel and other textile products after repeated home laundering | AATCC TM 143-2014, ISO 15487:2009, BS EN ISO 15487:2010 | Grade: SA -1 to SA - 5 Grade: SS -1 to SS - 5 Grade: CR -1 to CR - 5 |
| 7 | Textiles, garments & accessories | Appearance (visual assessment) after laundering | In-house method: (BD-TX-CH-SOP-001-06) | 1 to 5 Grade |
| 8 | Textiles, garments & accessories | Spirality/ skewing of fabrics & garment | AATCC TM 179-2012, ISO 16322-1:2005, ISO 16322-2:2005/ Cor-1 2007, ISO 16322-3:2005, ASTM D 3882 - 08(2016), BS 2819:1990 | 0 to ±30% |
| 9 | Textiles, garments & accessories | Durability wash of garment/ print/ motif/ appliqué/ embroidery | In House Method: (BD-TX-CH-SOP-004-01) | 1 to 5 Grade |
| 10 | Textiles, | Care label verification/ | ASTM D3938 -13, ASTM | 1 to 5 Grade |


 Quality Manager


SCOPE OF ACCREDITATION

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|------|---|---|---|-------------------------------------|
| | garments & accessories | Confirmation | D5489 -14, ISO 3758:2012 | 0 to ± 30% |
| 11 | Textiles, garments & accessories | Test method for sewing threads | ASTM D204 - 02 (2016) | N/A |
| 12 | Textiles, garments & accessories | Shrinkage of yarn | ASTM D2259 - 02 (2016) | 0 to ± 30% |
| 13 | Textiles, garments & accessories | Durability of finish of zippers to laundering | ASTM D2051 - 2014 | 1 to 5 Grade |
| 14 | Textiles, garments & accessories | Determination of fabric width & length | ASTM D3774 - 96 (2016), BS EN 1773:1997, AS 2001.2.12-1987 (R2016) | 1 – 150 cm |
| 15 | Textiles, garments & accessories | Dimensional change to steam test | BS 4323:1979, ISO 3005:1978 | 0 to 40% |
| 16 | Textiles, garments, accessories, leather & footwear | Colour fastness to washing | AATCC TM 61-2013, BS EN ISO 105-C06:2010, ISO 105- C06:2010, ISO 105- C08:2010, CAN/CGSB-4.2 No.19.1-2004, ISO105-C10: 2006, AS 2001.4.15-2006, ISO 105 C09:2003, BS EN ISO 105-C08:2010, BS EN ISO 105-C09:2003, BS EN ISO 105-C10:2007, DIN EN ISO105 C08:2010, DIN EN ISO105-C09:2007, DIN EN ISO105-C10:2010, JIS L0844:2011, GB/T 3921-2008, ISO 15702: 1998, IUF 435:1998, ISO 15703:1998, IUF 423:1998 | 1 to 5 Grade |
| 17 | Textiles, garments, accessories, leather & footwear | Colour fastness to perspiration | AATCC TM 15-2013, CAN/CGSB 4.2 NO. 23 M-90(R2013), ISO 105 E04: 2013, BS EN ISO 105 E04:2013, DIN EN ISO 105 E04:2013, AS 2001.4.E04:2005 (R2016), | 1 to 5 Grade |


 Quality Manager

SCOPE OF ACCREDITATION

(For Testing Laboratory)

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Amendment no: 03

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|------|---|--|---|-------------------------------------|
| | | | JIS L 0848:2004, GB/T 3922-2013, ISO 11641:1993/ IUF426:2012 | |
| 18 | Textiles, garments, accessories, leather & footwear | Colour fastness to rubbing/ crocking | AATCC TM 8-2016, AS 2001.4.3-1995 (R2016), CAN/CGSB 4.2 No. 22-2004 (2013), ISO 105 X16:2001, BS EN ISO 105 X12:2016, DIN EN ISO 105 X12:2016, ISO 105 X12:2016, AATCC 116:2016, JIS L 0849: 2013, GB/T 3920-2008, ISO 11640:1993/IUF 450:2012, ISO 17700:2004, EN 13516:2001 Method A, ISO 20433:2012/IUF 452:2012, BS 1006:1990, ISO 17700:2004, TM8: 2004, TM167:2001 EN 13516:2001 Method: B, ASTM D5053 - 03(2015) | 1 to 5 Grade |
| 19 | Textiles, garments, accessories, leather & footwear | Colour fastness to water | AATCC TM 107-2013, ISO 105-E01:2013, DIN EN ISO 105-E01:2013, AS 2001.4.E01-2001(2016), CAN/CGSB 4.2 NO. 20-M 89 (R2013), JIS L 0846: 2004, GB/T 5713-2013, ISO 11642:1993/ IUF 420:2012 | 1 to 5 Grade |
| 20 | Textiles, garments & accessories | Colour fastness to sea water | AATCC TM 106-2013, ISO 105 E02:2013, DIN EN ISO 105-E02:2013, AS 2001.4.E02-2001(R2016), CAN/CGSB 4.2 No.21-M90 (R2013), GB/T 5714-1997 | 1 to 5 Grade |
| 21 | Textiles, garments & accessories | Colour fastness to chlorinated water (swimming pool water) | ISO 105-E03:2010, DIN EN ISO105-E03:2010, AS 2001.4.5-1998, CAN/CGSB 4.2NO. 52.2-2013, AATCC TM 162-2011, GB/T 8433- | 1 to 5 Grade |


 Quality Manager

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|------|---|--|---|-------------------------------------|
| | | | 2013 | |
| 22 | Textiles, garments & accessories | Shade variation (colour change) | Based on AATCC Evaluation Procedure 1- 2012, ISO 105 A02:1993/ Cor. 2-2005, AATCC TM 173-2015, ISO 105 J03:2009 | 1 to 5 Grade |
| 23 | Textiles, garments & accessories | Colour fastness to dry cleaning | AATCC TM 132-2013, ISO 105-D01:2010, BS EN ISO 105-D01:2010, AS 2001.4.16-1981, CAN/CGSB 4.2 No.29.1-1997, GB/T 5711-2015 | 1 to 5 Grade |
| 24 | Textiles, garments & accessories | Colour fastness to dry heat | AATCC TM 117-2013, ISO 105 P01:1993, DIN EN ISO 105 P01:1995 | 1 to 5 Grade |
| 25 | Textiles, garments & accessories | Colour fastness to hot pressing | AATCC TM 133-2013, ISO 105 X11:1994, DIN EN ISO 105 X11:1996, AS 2001.4.6-1990 | 1 to 5 Grade |
| 26 | Textiles, garments, accessories, leather & footwear | Colour fastness to water spotting | AATCC TM 104-2014, ISO 105 E07:2010, DIN EN ISO 105 E07:2010, AS 2001.4.4-1998 (R2016), ISO 15700:1998, IUF 420:1998 | 1 to 5 Grade |
| 27 | Textiles, garments & accessories | Colour fastness to acid/ acid spotting | AATCC TM 6-2016, ISO 105-E05:2010, AS 2001.4.12-1981, DIN EN ISO 105-E05:2010 | 1 to 5 Grade |
| 28 | Textiles, garments & accessories | Colour fastness to alkali/ alkali spotting | AATCC TM 6-2016, ISO 105 E06:2006, DIN EN ISO 105-E06:2006, AS 2001.4.9-1981 | 1 to 5 Grade |
| 29 | Textiles, garments & accessories | Colour fastness to bleaching | AATCC TM 101-2013, ISO 105-N01:1993, DIN EN ISO 105 N02:1995, ISO 105-N02:1993, GB/T 7069-1997 | 1 to 5 Grade |
| | | Colour fastness to chlorine bleaching | AATCC TS 001 | 1 to 5 Grade |
| | | Colour fastness to non-chlorine bleaching | AATCC TS 001 | 1 to 5 Grade |


 Quality Manager


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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 |
|------|---|--|--|-------------------------------------|
| 30 | Textiles, garments, accessories, leather & footwear | Colour fastness to solvents | ISO 105-X05:1994, DIN EN ISO 105-X05: 1997, AATCC 157-2016, ISO 11643:2009, IUF 434:2009 | 1 to 5 Grade |
| 31 | Textiles, garments & accessories | Colour fastness of zipper to laundering | ASTM D2057 - 05 (2015) | 1 to 5 Grade |
| 32 | Textiles, garments & accessories | Phenolic yellowing | ISO 105-X18:2007, BS EN ISO 105-X18:2007, DIN EN ISO 105-X18:2007 | 1 to 5 Grade |
| 33 | Textiles, garments & accessories | Colour fastness to dye transfer in storage/ sublimation | AATCC TM 163-2013, JIS L0854:2001, DIN 54056:2017 | 1 to 5 Grade |
| 34 | Textiles, garments & accessories | Colour fastness to actual laundering | In-house method: (BD-TX-CH-SOP-008-01) | 1 to 5 Grade |
| 35 | Textiles, garments, accessories, leather & footwear | Colour fastness to light | AATCC TM 16.3-2014, ISO 105-B02:2014, BS EN ISO 105-B02:2014, GB/T 8427-2008, CAN/CGSB 4.2 NO. 18.3-97, AS 2001.4.B02:2001 | 1 to 8 Grade |
| 36 | Textiles, garments & accessories | Colour fastness to perspiration & light | AATCC TM 125-2013, ISO 105 B07:2009, BS EN ISO 105 B07:2009, GB/T 14576 - 2009 | 1 to 8 Grade |
| 37 | Textiles, garments & accessories | Colour fastness to non-chlorine bleaching in home laundering | AATCC TM 172-2016 | 1 to 5 Grade |
| 38 | Textiles, garments & accessories | Colour fastness to ozone | AATCC TM 109-2016, ISO 105 G03:1993, BS EN ISO 105 G03:1997 | 1 to 5 Grade |
| 39 | Metallic accessories | Corrosion test | BS 4162:1983 Section 10, ISO 22775:2004 (Method 2), BS EN ISO 22775:2004, TM 310:1992 | 1 to 5 Grade |
| 40 | Textiles, garments & accessories | Soil release: oily stain release method | AATCC TM 130-2015 | 1 to 5 grade |
| 41 | Textiles, | Oil repellency: hydrocarbon | AATCC TM 118-2015, | 0 to 8 grade |


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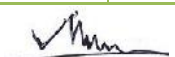
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Amendment no: **03**

| S.N. | Products/ Materials/ Items of test | Type of tests performed | Specifications/ Standard test methods/Techniques used | Range of testing/Limit of detection |
|------|---|---|---|-------------------------------------|
| | garments & accessories | resistance test | ISO 14419:2010 | |
| 42 | Textiles, garments & accessories | Aqueous liquid repellency: water/ alcohol solution resistance test | AATCC TM 193-2012, ISO 23232:2009 | 0 to 8 grade |
| 43 | Leather & leather products | Colour fastness to change in colour with accelerated ageing | ISO 17228:2015/ IUF 412:2015 | 1 to 5 grade |
| 44 | Textiles, garments, accessories, leather & footwear | Colour fastness to migration | ISO 17701:2003, EN 13517:2001, ISO 15701:2015/ IUF 442:2015, ISO 105-X10:1993 | 1 to 5 grade |
| 45 | Textiles, garments & accessories | Colour fastness to sweat | DIN 53160-2:2010 | 1 to 5 grade |
| 46 | Textiles, garments & accessories | Colour fastness to saliva | DIN 53160-1:2010, GB/T 18886-2002 | 1 to 5 grade |
| 47 | Textiles, garments & accessories | Colorfastness to Burnt Gas Fumes | AATCC 23-2015, ISO 105 G02:1993 | 1 to 5 grade |
| 48 | Metal & metal items | Corrosion tests in artificial atmospheres-salt spray tests | ISO 9227:2017, ASTM B117-2016 | 0-10 |
| 49 | Textiles, garments & accessories | Water Vapor Transmission Test | ASTM E96/ E96M-16 | 200-7000 g/m ² /24H |
| 50 | Textiles, garments & accessories | Standard test method for extractable matter in textile | ASTM D2257-98 (2012), AATCC 97:2013 | 0.1-5.0 % |
| 51 | Textiles, garments & accessories | Textile dyestuffs--part-1: general principles of testing coloured textile for dyestuff identification | ISO 16373-1:2015 | Qualitative |
| 52 | Leather & leather products | Standard test method for volatile matter (Moisture) of leather by oven drying | ASTM D3790-79 (R2012) | 1 % to 30 % |
| 53 | Paper, pulp & paperboard | Moisture in pulp, paper and paperboard | TAPPI T412 om-2011 | 1 % to 30 % |
| 54 | Jute bags/ cloth & jute products | Determination of unsaponifiables in jute Bags/ | IJO Standard 98/01:2005 | 1 ppm to 10,000 ppm |


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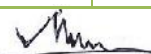
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Amendment no: 03

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|------|------------------------------------|--|---|-------------------------------------|
| | | cloth used for packaging selected food materials | | |
| 55 | Textiles, garments & accessories | Fibre analysis | AATCC TM 20 - 2013, AATCC TM 20A –2014, ISO/TR 11827:2012, ISO 1833-1:2006, ISO 1833-2:2006, ISO 1833-3:2006, ISO 1833-4:2006, ISO 1833-5:2006, ISO 1833-6:2007, ISO 1833-7:2006, ISO 1833-8:2006, ISO 1833-9:2006, ISO 1833-10:2006, ISO 1833-11: 2006, ISO 1833-12: 2006, ISO 1833-13: 2006, ISO 1833-14:2006, ISO 1833-15:2006, ISO 1833-16:2006, ISO 1833-17:2006, ISO 1833-18:2006, ISO 1833-20: 2006, ISO 1833-21:2006, ISO 1833-22: 2013, ISO 1833-24:2010, ASTM D276 - 2012, ASTM D629 - 2008, CAN/CGSB 4.2 No.14 :2005, AS 2001.7 – 2005, Regulation (EU) No1007/2011, GB/T 2910.1-2009, GB/T 2910.2-2009, GB/T 2910.3-2009, GB/T 2910.4-2009, GB/T 2910.5-2009, GB/T 2910.6-2009, GB/T 2910.7-2009, GB/T 2910.8-2009, GB/T 2910.9-2009, | 0.1 to 100% |



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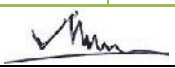
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| | | | GB/T 2910.10-2009, GB/T 2910.11-2009, GB/T 2910.12-2009, GB/T 2910.13-2009, GB/T 2910.14-2009, GB/T 2910.15-2009, GB/T 2910.16-2009, GB/T 2910.17-2009, GB/T 2910. 18-2009, GB/T 2910.19-2009, GB/T 2910.20-2009, GB/T 2910.21-2009, GB/T 2910.22-2009, GB/T 2910.24-2009, FZ/T 01057.1-2007, FZ/T 01057.2-2007, FZ/T 01057.3-2007, FZ/T 01057.4-2007, FZ/T 01057.6-2007 | |
| 56 | Textiles, garments & accessories | Water repellency (Spray test) | AATCC TM 22-2014, ISO 4920:2012, DIN EN ISO 4920:2012, BS EN ISO 4920:2012, CAN/CGSB 4.2 No. 26.2 -M94 | ISO 1 to ISO 5 (0 to 100) |
| 57 | Textiles, garments & accessories | Water resistance | AATCC TM 127-2014, ISO 811:1981, DIN EN 20811:1992 | 0 to 20000 mm of water |
| 58 | Textiles, garments & accessories | Water resistance: rain test | AATCC TM 35-2013 | 0.1 to 100 g |
| 59 | Textiles, garments & accessories | Absorbency of textile | AATCC TM 79-2014 | 1 to 300 sec |
| 60 | Textiles, garments, accessories, liquid & powder material | Determination of certain listed banned aromatic amines derived from Azo colorants- 4-Aminodiphenyl Benzidine 4-Chloro-o-Toluidine 2-Naphthylamine o-Aminoazotoluene | SOP No : RSTS-CHEM-201-14 (ISO 14362-1:2017) RSTS-CHEM-201-15 (ISO 14362-3:2017) SOP No. RSTS-CHEM-201-7 (EN 14362-1 :2012) | 0.10-0.45 mg/kg |


 Quality Manager


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|------|------------------------------------|---|---|-------------------------------------|
| | | 5-nitro-o-toluidine 4-chloroaniline 4-methoxy-m-phenylenediamine 4,4'-Diaminodiphenylmethane 3,3'-Dichlorobenzidine 3,3'-Dimethoxybenzidine 3,3'-Dimethybenzidine 4,4'-methylenedi-o-toluidine p-Cresidine 4,4'-methylene-bis-(2-chloro-aniline) 4,4'-oxydianiline 4,4'-Thiodianiline o-Toluidine 4-methyl-m-phenylenediamine 2,4,5-Trimethylaniline 4-aminoazobenzene* O-Anisidine 2,4-Xylidin 2,6-Xylidin | EN 14362-3 :2012 BS EN 14362-1 :2012 BS EN 14362-3 :2012 DIN EN 14362-1 :2012 DIN EN 14362-3 :2012) SOP No : RSTS-CHEM-201-10 (EN 14362-1 : 2003 BS EN 14362-1:2003 DIN EN 14362-1:2003 § 64 LFGB BVL B 82.02.2:2004) RSTS-CHEM-201-11 (EN 14362-2:2003 BS EN 14362-2:2003 § 64 LFGB BVL B 82.02.4:2004) RSTS-CHEM-201-12 (§ 64 LFGB BVL B 82.02.9:2008 ISO 17234-2:2011) RSTS-CHEM-201-13 (ISO 17234-1: 2010 § 64 LFGB BVL B 82.02.3(V)-2004 GB-T 17592:2011) | |
| 61 | Leather & leather products | Determination of certain listed banned aromatic amines derived from Azo colorants 4-Aminodiphenyl Benzidine 4-Chloro-o-Toluidine 2-Naphthylamine o-Aminoazotoluene 5-nitro-o-toluidine 4-chloroaniline 4-methoxy-m-phenylenediamine 4,4'-Diaminodiphenylmethane 3,3'-Dichlorobenzidine 3,3'-Dimethoxybenzidine 3,3'-Dimethybenzidine | SOP No: RSTS-CHEM-201-2 (ISO 17234-1:2010 ISO 17234-1:2015 § 64 LFGB, BVL B 82.02-3:2014) RSTS-CHEM-201-4 (ISO 17234-2:2011 § 64 LFGB, BVL B 82.02-9:2014) | 0.11-0.46 mg/kg |


 Quality Manager


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|------|--|--|---|-------------------------------------|
| | | 4,4'-methylenedi-o-toluidine p-Cresidine 4,4'-methylene-bis-(2-chloro-aniline) 4,4'-oxydianiline 4,4'-Thiodianiline o-Toluidine 4-methyl-m-phenylenediamine 2,4,5-Trimethylaniline 4-aminoazobenzene* O-Anisidine 2,4-Xylidin 2,6-Xylidin | | |
| 62 | Textiles, garments, liquid & powder material | Allergenous disperse Dyestuff in textile materials Disperse Blue 1 Disperse Blue 3 Disperse Blue 7 Disperse Blue 26 Disperse Blue 35 Disperse Blue 35A Disperse Blue 35B Disperse Blue 102 Disperse Blue 106 Disperse Blue 124 Disperse Brown 1 Disperse Orange 1 Disperse Orange 3 Disperse Orange 37/76/59 Disperse Red 1 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 14 Disperse Orange 11 Basic red 9 Disperse Orange 149 | SOP No: RSTS-CHEM-202-1 (DIN 54231:2005 § 64 LFGB BVL B 82.02.10-2007, GB/T 20382:2006 (mod), GB/T 20383:2006 (mod), GB/T 30398:2013 (mod), GB/T 30399:2013 (mod)) | 0.143-0.315 mg/kg |


 Quality Manager


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|------|---|---|---|---|
| | | Basic Blue 26 (with michler's ketone>0.1%) Basic Green 4 (malachite green chloride) Basic Green 4 (malachite green oxalate) Basic Green 4 (malachite green) | | |
| 63 | Textiles, garments, liquid & powder material | Carcinogenic Dyestuff in textile materials Acid Red 26 Basic Red 9 Direct Black 38 Direct Blue 6 Direct Red 28 Basic Violet 3 Basic Violet 14 Disperse Orange 11 Disperse Blue 1 Disperse Yellow 3 Direct Brown 95 Solvent Yellow 1 Solvent Yellow 2 Navy Blue | SOP No: RSTS-CHEM-202-1 (DIN 54231:2005 § 64 LFGB BVL B 82.02.10-2007, GB/T 20382:2006 (mod), GB/T 20383:2006 (mod), GB/T 30398:2013 (mod), GB/T 30399:2013 (mod)) | 0.30-0.45 mg/kg |
| 64 | Textiles, garments, leather, liquid & powder material | Determination of extractable chlorinated phenols & other phenol- Pentachlorophenol (PCP) Tetrachlorophenol (TeCP): 2,3,5,6-Tetrachlorophenol (TeCP) 2,3,4,6- Tetrachlorophenol (TeCP) 2,3,4,5- Tetrachlorophenol (TeCP) Trichlorophenol (TCP): 2,4,5-Trichlorophenol (TriCP) 2,4,6- Trichlorophenol (TriCP) 2,3,4- Trichlorophenol (TriCP) 2,3,5- Trichlorophenol (TriCP) 2,3,6- Trichlorophenol (TriCP) 3,4,5- Trichlorophenol (TriCP) | SOP No: RSTS-CHEM-203-1 (§ 64 LFGB B 82.02.8-2001, ISO 17070 : 2015) RSTS-CHEM-203-2 (DIN 53313:1993 § 64 LFGB B 82.02.8-2001(mod)) | 0.02-0.06 mg/kg for CP, For OPP 0.15 mg/kg |


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|------|--|---|---|-------------------------------------|
| | | Dichlorophenol(DCP): 2,3-Dichlorophenol (DCP) 2,4- Dichlorophenol (DCP) 2,5- Dichlorophenol (DCP) 2,6- Dichlorophenol (DCP) 3,4- Dichlorophenol (DCP) 3,5- Dichlorophenol (DCP) Monochlorophenol (MCP) 2- Chlorophenol (MCP) 3- Chlorophenol (MCP) 4- Chlorophenol (MCP) | | |
| 65 | Textiles, garments, accessorie, liquid & powder material | Determination of Chlorinated Organic Carriers (COC) – 2-Chlorotoluene 3-Chlorotoluene 4-Chlorotoluene 2,4-Dichlorotoluene 2,5-Dichlorotoluene 2,6-Dichlorotoluene 2,3-Dichlorotoluene 3,4-Dichlorotoluene 3,5-Dichlorotoluene 2,4,5-Trichlorotoluene 2,3,6-Trichlorotoluene α,α,α,4-tetrachlorotoluene 2,3,4,6-tetrachlorotoluene 2,3,5,6-tetrachlorotoluene 2,3,4,5-tetrachlorotoluene 2,3,4,5,6-Pentachlorotoluene Monochlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2,3-Trichlorobenzene 1,3,5-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,3,5-Tetrachlorobenzene 1,2,4,5-Tetrachlorobenzene 1,2,3,4-Tetrachlorobenzene Pentachlorobenzene Hexachlorobenzene | SOP No: RSTS-CHEM-204-1 (DIN 54232:2010) | 0.002-0.032 mg/kg |


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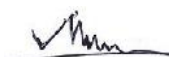
SCOPE OF ACCREDITATION

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Noor Tower, 110 Bir Uttam C. R. Datta Road, Dhaka-1205, Bangladesh

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Amendment no: 03

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|------|---|---|--|-------------------------------------|
| 66 | Textiles, garments, leather, plastic accessories, liquid & powder material. | Determination of Organotin content - Monomethyltin Dimethyltin Trimethyltin Monobutyltin Dibutyltin Tributyltin Tetrabutyltin Triphenyltin Mono-n-Octyltin Di-n-Octyltin Tri-n-propyltin Tri-Cyclohexyltin Monophenyltin Diphenyltin Tri-n-Octyltin Tetraethyltin | SOP No: RSTS-CHEM-205-01 (ISO 17353:2004, BS ISO 17353:2004, DIN EN ISO 17353:2005) RSTS-CHEM-205-02 (ISO/TS 16179:2012) | 0.002-0.003 mg/kg |
| 67 | Textiles, garments, leather, plastic, rubber, liquid & powder material | Determination of Phthalates – Di-butyl phthalate (DBP), Benzyl butyl phthalate (BBP), Bis-(2-ethylhexyl) phthalate (DEHP), Di-“iso nonyl” phthalate (DINP), Di-n-octyl phthalate (DNOP), Di-“iso decyl” phthalate (DIDP), Di iso pentyl phthalate (DIPP), n-pentyl iso-pentyl phthalate (iPnPP), Di-n-pentyl phthalate (DPP), Bis (2-methoxyethyl) phthalate (DMEP), Di-n-hexyl phthalate (DnHP) Di-iso-butyl phthalate (DIBP) Diisoheptyl phthalate (DIHpP) Diundecyl phthalate (DUDP) Di heptyl nonyl undecyl phthalate (DHNUP), | SOP No : RSTS-CHEM-206-6 RSTS-CHEM-206-7 (CPSC-CH-C1001-09.3 CPSC-CH-C1001-09.4, ISO 14389:2014 GB/T 24168:2009) | 2.8-6.2 mg/kg |


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|------|--|--|---|---|
| | | Diisooctyl Phthalate (DIOP), Dibenzyl Phthalate (DBzP), Dinonyl Phthalate(DNP), Diphenyl Phthalate(DPhP, Dihexyl Phthalate (DHP), Di-n-Heptyl Phthalate(DnHpP), Didecyl Phthalate(DDP), Dimethyl Phthalate (DMP), Diethyl Phthalate (DEP), Di-n-propyl Phthalate (DPrP), Di-cyclohexyl Phthalate (DCHP), Di-iso-hexyl Phthalate (DIHP) | | |
| 68 | Plastic accessories & prints in textile & garments | Polyvinyl Chloride (PVC) detection in plastic & coating material | SOP No: RSTS-CHEM-207-1, (Belistein Method- Preliminary method, FT-IR method by solvent Extraction-Confirmatory method) | Qualitative |
| 69 | Textiles, garments, leather, plastic, paper, liquid & powder materials | Determination of Alkylphenol (AP) & Alkylphenol Ethoxylates (APEO) – Nonylphenol (NP), mixed isomer Octylphenol (OP), mixed isomer Nonylphenoethoxylats (NPEO) Octylphenoethoxylats (OPEO) | SOP No: RSTS-CHEM-213-1& 2 (ISO 18254-1: 2016, ISO 18218-1: 2015, GB/T 23972:2009) | 0.206-0.228 mg/kg for APEO, 0.506 – 0.65 mg/kg for AP |
| 70 | Textiles, garments, accessories, coated materials, polymeric materials, liquid & powder material | Determination of extractable perfluorinated compounds - Perfluorooctanoic acid (PFOA), Perfluorooctanesulphonates (PFOS), Perfluorooctane sulfonamide (PFOSA) | SOP No: RSTS-CHEM-219-1 (CEN/TS 15968:2010, GB/T 29493.2:2013) | 0.0008-0.0009 mg/kg for noncoated or 0.0355-0.04 µg/m ² for coated |
| 71 | Textiles, | | SOP No: | 0.60 mg/kg |


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|------|---|---|---|-------------------------------------|
| | garments & accessories | Determination of free & released formaldehyde | RSTS-CHEM-101-1 (ISO 14184-1:2011, EN ISO 14184-1:2011, BS EN ISO 14184-1:2011, DIN EN ISO 14184-1:2011, ISO 14184-2:2011, EN ISO 14184-2:2011, BS EN ISO 14184-2:2011, DIN EN ISO 14184-2:2011, AATCC TM 112:2014, § 64 LFGB BVL B 82.02.1:1985, GB/T 2912.1:2009, ITX-GB/T 2912.1/2012C ITX-GB/T 19941.2/2005D ITX-GB/T 19941.1/2005A) RSTS-CHEM-101-9 (AATCC TM 94-2012) | |
| 72 | Leather | Determination of free & released formaldehyde | SOP No: RSTS-CHEM-101-3 (ISO 17226-1/2:2008, DIN 53315:1996- Method A) | 0.425 mg/kg |
| 73 | Textiles, garments & accessories | pH value in aqueous extract/ water extract | SOP No : RSTS-CHEM-102-1 (ISO 3071:2005, EN ISO 3071 :2006, BS EN ISO 3071 : 2006, DIN EN ISO 3071 : 2006, EN 1413 :1998, BS EN 1413 :1998, AATCC TM 81 : 2016, GB/T 7573 :2009) | 1 to 14 |
| 74 | Leather | pH value in aqueous extract/ water extract | SOP No : RSTS-CHEM-102-2 (ISO 4045:2008, BS EN ISO 4045:2008) | 1 to 14 |
| 75 | Textiles, garments, leather, PU leather, rubber & silica gel pellet | Determination of Dimethyl fumarate (DMFu) in leather, PU leather, textile, rubber & silica gel pellet | SOP No: RSTS-CHEM-233-1 | 0.041 mg/kg |


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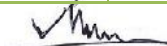
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|------|--|---|---|-------------------------------------|
| 76 | Textiles, garments, polymer, rubber type samples, liquid & powder material | Determination of polycyclic aromatic hydrocarbon (PAH) - Naphthalene (NAP) Acenaphthylene (ANY) Acenaphthene (ANA) Fluorene (FLU) Phenanthrene (PHE) Anthracene (ANT) Fluoranthene (FLT) Pyrene (PYR) Benzo(a)anthracene (BaA) Chrysene (CHR) Benzo(b)fluoranthene (BbF) Benzo(k)fluoranthene (BkF) Benzo(a)pyrene (BaP) Indeno(1,2,3-cd)pyrene (IPY) Dibenzo(a,h)anthracene (DBA) Benzo(g,h,i)perylene (BPE) Benzo(j)fluoranthene (BjF) Benzo(e)pyrene (BeP) | SOP No: RSTS-CHEM-232-1 (EPA 610 AfPS GS 2014:01 PAK) | 0.002-0.012 mg/kg |
| 77 | Textiles, garments, leather & accessories | Extractable heavy metals – Lead Cadmium Chromium Chromium VI Cobalt Antimony Arsenic Mercury Nickel Copper Manganese | SOP No: RSTS-CHEM-103-1 (ISO 105 E04 :2013 DIN EN 16711-2:2016 ISO 17072-1: 2011 DIN EN ISO 17072-1:2011) | 0.002 – 0.141 mg/kg |
| 78 | Textiles, garments & leather | Determination of Hexavalent Chromium (Chromium VI) content in leather | SOP No: RSTS-CHEM-104-1 & RSTS-CHEM-104-6 (CEN/TS 14495:2003, ISO 17075-1:2017, BS EN 420 :2003+A1:2009 DIN 53314:1997, § 64 LFGB BVL B 82.02.11:2008) | 0.2 mg/kg |
| 79 | Metal item | Screening test for nickel release from alloys & coatings | SOP No: RSTS-CHEM-105-6 | Qualitative |


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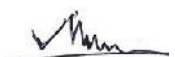
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| | | (nickel spot test) | (EN 12471:1996, EN 12471:1996, CR 12471:2002) | |
| 80 | Metal item (coated & non-coated) | Detection of nickel release from coated and non-coated items | RSTS-CHEM-105-5 (EN 12472 :2005+A1:2009 EN 1811:2011 EN 1811:2011+AC:2012 EN 1811:2011+A1:2015) | 0.1µg/cm ² /week |
| 81 | Plastic (PVC)/ rubber accessories in textiles & garments | Cadmium content in PVC item | SOP No: RSTS-CHEM-106-1 (EN 1122:2001, BS EN 1122:2001, USEPA 3052:1996) | 1 mg/kg |
| 82 | Textiles, garments, accessories, toy products & paint or surface coating material | Total lead and cadmium content in wet paint or surface coating materials | SOP No: RSTS-CHEM-109-1 (CPSC-CH-E1003-09.1, ASTM E1645-2007 & ASTM E1613-2012 16 CFR 1303, ASTM F963 US PublicLaw 110-314, AOAC official method 974.02, Inditex's SOP-A-022/023/024) | 2-2.5 mg/kg |
| 83 | Textiles, garments, accessories, toy products, plastic, glass & ceramic items | Total lead and cadmium content in plastic, fabric | SOP No: RSTS-CHEM-109-2 (CPSC-CH-E1002-08.1, DIN EN 16711-1, USEPA 3051A:2007, USEPA 3052:1996, USEPA 3050B:1996 ASTM E1613, Inditex's SOP-A-022/023/024) | 1 mg/kg |
| 84 | Textiles, garments, accessories, toy products & metal items | Total lead and cadmium content in children's metal product including metal jewelry | SOP No: RSTS-CHEM-109-2 (CPSC-CH-E1001-08.1, USEPA 3050B, USEPA 3052, USEPA 3051A, DIN EN 16711-1, ASTM E1613-04, Inditex's SOP-A-022/023/024, USEPA 3052:1996, US | 1 mg/kg |


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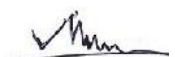
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|------|--|--|--|--|
| | | | Public Law 110-314) | |
| 85 | Textiles, garments, accessories, plastic items, Liquid & powder material | Heavy Metal & toxic elements (Cadmium, Chromium, Mercury, Lead, Tin & Arsenic). | SOP No: RSTS-CHEM-108-1 (USEPA 3052 USEPA Method 6010B USEPA Method 6020) | 1-1.3 mg/kg |
| 86 | Plastics, metals & packaging materials | Determination of Toxic elements [Pd, Cd, Cr(VI), Hg] in packaging materials | SOP No: RSTS-SL-108-2 (EPA 3050B EPA 3051A, EPA 3052 IEC 62321 Ed1 CPSC-CH-E1001-08.1 CPSC-CH-E1003-09.1 CPSC-CH-E1002-08.1) | 0.14-5 mg/kg |
| 87 | Textiles, garments, accessories, toy products, metal, plastic and coated items | Migration of Certain Element/Toxicity Lead, Boron, Tin, Chromium VI Cadmium, Zinc, Chromium III, Chromium, Aluminum Barium, Magnesium Antimony, Cobalt Arsenic, Nickel Mercury, Copper Selenium, Strontium | SOP No: RSTS-CHEM-110-2 (EN 71-3 :2013+A1 :2014 EN 71 part3:1994+A1:2000, AC: 2002, 2009/48/EC) | 0.2-4.4 mg/kg |
| 88 | Ceramic & ceramic products | Leachable lead and cadmium in ceramic wares | ASTM C927-80 (Reapproved 2014) ISO 6486-1:1999 BS 6748:1986+A:2011 | For Pb: 0.04 mg/L; 0.003 mg/dm ² For Cd: 0.01 mg/L; 0.001 mg/dm ² |
| 89 | Materials and articles in contact with food stuffs | Thermal shock and thermal shock endurance | BS EN 1183:1997 | Qualitative |
| 90 | Materials and articles in contact with food stuffs | Resistance to microwave heating of ceramic, glass, glass ceramic or plastic cookware | BS EN 15284:2007 | Qualitative |
| 91 | Textiles, garments & | Determination of Triclosan in Textile Material by | RSTS-SL-231-1 (In house method) | 0.03 mg/kg |


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|------|--|--|---|-------------------------------------|
| | accessories | GC/MS | | |
| 92 | Textiles, garment, accessories, leather, liquid & powder material | Determination of short chain chlorinated paraffin (C10-C13), SCCP & medium chlorinated paraffin (C14-C17), MCCP. | RSTS-CHEM-209-1 (ISO 18219:2015) USEPA Method 8082A CADS SCCP method v8:112017) | SCCP=11 & MCCP=7.7 mg/kg |
| 93 | Textiles, garments, accessories, plastic, paint, leather, liquid & powder material | Determination of selected Volatile Organic Compounds (VOCs) Dichloromethane, Chloroform, Tetrachloromethane, 1,1,2-Trichloroethane, 1,2-Dichloroethane, Trichloroethylene, Tetrachloroethylene, 1,1,1-Trichloroethane, 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, Pentachloroethane, Cis-1,2-Dichloroethylene, Trans-1,2-Dichloroethylene, Benzene, Toluene, Ethylbenzene, Xylene, Styrene, Cyclohexanone, N, N-Dimethylformamide, 1-Methyl-2-pyrrolidone, N, N-Dimethylacetamide, o-Cresol, p-Cresol, m-Cresol. | RSTS-CHEM-220-2 (EPA Method 8260C, EPA Method 3585 & EPA Method 5000) | 0.007-0.025 mg/kg |
| 94 | Textiles, garments, leather, Liquid or powder material | Determination of Chromium VI content. | RSTS-CHEM-104-2 (ISO 17075-2:2017) | 0.10 mg/kg |
| 95 | Textiles, garments, accessories, | Determination of flame retardants- Tris(chloroethyl)phosphate | RSTS-CHEM-256-1 (In-house Method, GB/T 29493.1:2013 (mod)) | 0.05-0.16 mg/kg |


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|------|---|--|--|--|
| | plastic, foam, leather, plastic, liquid & powder material. | (TCEP), Decabromodiphenyl Ether (DecaBDE), Tris-(2,3-dibromopropyl) phosphate (TRIS), Pentabromodiphenyl Ether (PentaBDE), Octabromodiphenyl Ether (OctaBDE), Bis-(2,3-dibromopropyl) phosphate (BDBPP), Tris-(aziridinyl)phosphine oxide (TEPA), Polybrominated biphenyls (PBBs), Tetrabromobisphenol A (TBPPA), Hexabromocyclododecane (HBCDD) and all isomers, 2,2-Bis(bromoethyl)-1,3-propanediol (BBMP), Tris(1,3-dichloro-iso-propyl) phosphate (TDCP), | | |
| 96 | Textiles, garments, accessories, leather, liquid & powder material. | Determination of Glycols- Bis(2-methoxyethyl)-ether, 2-Ethoxyethanol, 2-Ethoxyethyl acetate, Ethylene glycol dimethyl ether, 2-Methoxyethanol, 2-Methoxyethylacetate, 2-Methoxypropylacetate, Triethylene glycol dimethyl ether | RSTS-CHEM-249-1 (In-house method) | 0.36-3.90 mg/kg |
| 97 | Water, waste water & sludge | Alkylphenols (APs) and Alkylphenol Ethoxylates (APEOs): Octylphenol (OP), mixed isomers Nonylphenol (NP), mixed isomers Octylphenol ethoxylates (OPEO) | BD-RSTS-OR-SOP-102-01 (With reference to ISO 18254-1, ISO 18857-2 followed by LC/MS & GCMS analysis) | NPEO = 0.3 µg/L OPEO = 0.1 µg/L NP = 0.24 µg/L OP = 0.22 µg/L |


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|------|------------------------------------|--|--|-------------------------------------|
| | | Nonylphenol ethoxlates (NPEO) | | |
| 98 | Water, waste water & sludge | Chlorobenzenes and Chlorotoluenes (COCs): Monochlorobenzenes 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 Pentachlorobenzene Hexachlorobenzene 2-Chlorotoluene 3-Chlorotoluene 4-Chlorotoluene 2,3-Dichlorotoluene 2,4-Dichlorotoluene 2,5-Dichlorotoluene 2,6-Dichlorotoluene 3,4-Dichlorotoluene 3,5-Dichlorotoluene 2,3,4-Trichlorotoluene 2,3,6-Trichlorotoluene 2,4,5-Trichlorotoluene 2,4,6-Trichlorotoluene 3,4,5-Trichlorotoluene 2,3,4,5-Tetrachlorotoluene 2,3,4,6-Tetrachlorotoluene 2,3,5,6-Tetrachlorotoluene Pentachlorotoluene | BD-RSTS-OR-SOP-103-01 (USEPA 8260B, USEPA 8270D, Dichloromethane extraction followed by GC/MS analysis) | 0.001-0.008 µg/L |
| 99 | Water, waste water & sludge | Chlorophenols: 2-Chlorophenol 3-Chlorophenol 4-Chlorophenol 2,3-Dichlorophenol 2,4-Dichlorophenol 2,5-Dichlorophenol 2,6-Dichlorophenol | BD-RSTS-OR-SOP-107-01 (USEPA 8270D, Solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis) | 0.021-0.065 µg/L |


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| | | 3,4-Dichlorophenol 3,5-Dichlorophenol 2,3,4-Trichlorophenol 2,3,5-Trichlorophenol 2,3,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 3,4,5-Trichlorophenol 2,3,4,5-Tetrachlorophenol 2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol Pentachlorophenols | | |
| 100 | Water, waste water & sludge | AZO Dyes: 4-Aminodiphenyl Benzidine 4-Chloro-o-Toluidine 2-Naphthylamine o-Aminoazotoluene 2-Amino-4-Nitrotoluene p-Chloroaniline 2,4-Diaminoanisole 4,4'-Diaminodiphenylmethane 3,3'-Dichlorobenzidine 3,3'-Dimethoxybenzidine 3,3'-Dimethylbenzidine 4,4'-diaminodiphenylmethane p-Cresidine 4,4'-Methylene-Bis(2-Chloroaniline) 4,4'-Oxydianiline 4,4'-Thiodianiline o-Toluidine 2,4-Toluylenediamine 2,4,5-Trimethylaniline o-Anisidine p-Aminoazobenzene 2,4-Xylidine 2,6-Xylidine | BD-RSTS-OR-SOP-101-01 (Withreference to EN 14362-1 & 3 and Solvent extraction with sodium dithonitereductionfollowed by GC/MS and HPLC-DAD analysis) | 0.01-0.06 µg/L |
| 101 | Water, waste water & sludge | Allegenic Disperse Dyes & Carcinogenic Dyes: Acid Red 26 | BD-RSTS-OR-SOP-104-01 (Solvent extraction followed by HPLC-MSD-DAD | 0.04 - 0.15 µg/L |


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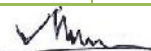
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|------|------------------------------------|--|---|--|
| | | Basic Blue 26 Basic Green 4 (malachite green) Basic Green 4 (malachite green chloride)^ Basic Green 4 (malachite green oxalate)^ Basic Red 9 Basic Violet 14 Direct Black 38 Direct Blue 6 Direct Red 28 Disperse Blue 1 Disperse Blue 3 Disperse Orange 11 Disperse Brown 1 Disperse Blue 7 Disperse Blue 26 Disperse Blue 35 Disperse Blue 102 Disperse Blue 106 Disperse Blue 124 Disperse Orange 1 Disperse Orange 3 Disperse Orange 37/59/76 Disperse Red 1 Disperse Red 11 Disperse Red 17 Disperse Yellow 1 Disperse Yellow 3 Disperse Yellow 9 Disperse Yellow 39 Disperse Yellow 49 Navy Blue | analysis) | |
| 102 | Water, waste water & sludge | Flame Retardants: Pentabromodiphenyl ethers (PentaBDE) Octabromodiphenyl ethers (OctaBDE) Decabromodiphenyl ethers (DecaBDE) Tris(2-chloroethyl) phosphate | BD-RSTS-OR-SOP-113-01 (USEPA 527, USEPA 8270, USEPA 8321B, Solvent extraction followed by GC/MS analysis) | For FR: 0.02 - 0.939 µg/L, For SCCP: 0.058 µg/L |



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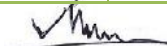
SCOPE OF ACCREDITATION

(For Testing Laboratory)

CAB Name & Address: SGS Bangladesh Limited
 Noor Tower, 110 Bir Uttam C. R. Datta Road, Dhaka-1205, Bangladesh

| | | | |
|--------------------------------|---------------------------|----------------------------|-------------------------|
| Accreditation Standard: | ISO/IEC 17025:2005 | Accreditation Date: | 04 November 2012 |
| Certificate Number: | 01.003.12 | Issued on: | 31 December 2017 |
| Last Amended on: | 13 Nov 2019 | Valid until: | 03 November 2020 |
| Amendment no: | 03 | | |

| S.N. | Products/ Materials/ Items of test | Type of tests performed | Specifications/ Standard test methods/Techniques used | Range of testing/Limit of detection |
|------|------------------------------------|---|---|-------------------------------------|
| | | (TCEP) Tris(1-aziridinyl)phosphine oxide (TEPA) Tetrabromobisphenol A (TBBPA) Hexabromocyclododecane (HBCDD) Bis(2,3-dibromopropyl)phosphate (BIS) Tris(2,3-dibromopropyl)phosphate (TRIS) 2,2-Bis(bromomethyl)-1,3-propanediol (BBMP) Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) Short Chain Chlorinated Paraffins (SCCP), C10-C13 | | |
| 103 | Water, waste water & sludge | Glycols: Bis(2-methoxyethyl)-ether 2-Ethoxyethanol 2-Ethoxyethyl acetate Ethylene glycol dimethyl ether 2-Methoxyethanol 2-Methoxyethylacetate 2-Methoxypropylacetate Triethylene glycol dimethyl ether | BD-RSTS-OR-SOP-112-01 (USEPA 8270D, Solvent extraction followed by GC/MS analysis) | 0.096 - 0.27 µg/L |
| 104 | Water, waste water & sludge | Halogenated solvent & Volatile Organic Compounds (VOC): 1,2-Dichloroethane Methylene chloride Trichloroethene Tetrachloroethene Benzene Xylene o-cresol p-cresol m-cresol | BD-RSTS-OR-SOP-109-01 (USEPA 8260B, Head-space&Solvent extraction followed by GC/MS analysis) | 0.12-0.34 µg/L |
| 105 | Water, waste water & sludge | Organotin Compounds: Mono-, di- and tri-methyltin derivatives | BD-RSTS-OR-SOP-105-01 (Withreference to ISO 17353 and followed by GC/MS) | 0.006-0.009 µg/L |


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| Certificate Number: | 01.003.12 | Issued on: | 31 December 2017 |
| Last Amended on: | 13 Nov 2019 | Valid until: | 03 November 2020 |
| Amendment no: | 03 | | |

| S.N. | Products/ Materials/ Items of test | Type of tests performed | Specifications/ Standard test methods/Techniques used | Range of testing/Limit of detection |
|------|------------------------------------|--|--|--|
| | | Monomethyltin (MMT) Dimethyltin (DMT) Trimethyltin (TMT) Mono-, di- and tri-butyltin derivatives Monobutyltin (MBT) Dibutyltin (DBT) Tributyltin (TBT) Mono-, di- and tri-octyltin derivatives Mono-octyltin (MOT) Dioctyltin (DOT) Trioctyltin (TOT) Mono-, di- and tri-phenyltin derivatives Monophenyltin (MPhT) Diphenyltin (DPhT) Triphenyltin (TPhT) | analysis) | |
| 106 | Water, waste water & sludge | Perfluorinated / Polyfluorinated Chemicals (PFCs): PFOS PFOA PFBS PFHxA 6:2 FTOH 8:2 FTOH | BD-RSTS-OR-SOP-110-01 & BD-RSTS-OR-SOP-111-01 {Ionic PFC: With reference to CEN/TS 15968 and followed by LC/MS analysis Non-ionic PFC (FTA/FTOH): Solvent extraction & derivatisation with acetic anhydride followed by GC/MS analysis} | Ionic PFC: 0.0026 - 0.003 µg/L Non-ionic PFC: 0.006-0.01 µg/L |
| 107 | Water, waste water & sludge | Phthalates: Di(2-Ethyl Hexyl) Phthalate (DEHP) Bis(2-methoxyethyl) phthalate (DMEP) Di-N-Octyl Phthalate (DNOP) Di-Iso-Decyl Phthalate (DIDP) Di-Iso-Nonyl Phthalate (DINP) Di-N-Hexyl Phthalate (DNHP) Dibutyl Phthalate (DBP) Benzyl Butyl Phthalate (BBP) Dinonyl phthalate (DNP) Diethyl Phthalate (DEP) Di-N-Propyl Phthalate (DPRP) | BD-RSTS-OR-SOP-108-01 (USEPA 8270D, ISO 18856, Solvent extraction followed by GC/MS analysis) | 0.068-0.1946 µg/L |


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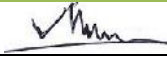
SCOPE OF ACCREDITATION

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Noor Tower, 110 Bir Uttam C. R. Datta Road, Dhaka-1205, Bangladesh

Accreditation Standard: ISO/IEC 17025:2005 **Accreditation Date:** 04 November 2012
Certificate Number: 01.003.12 **Issued on:** 31 December 2017
Last Amended on: 13 Nov 2019 **Valid until:** 03 November 2020
Amendment no: 03

| S.N. | Products/ Materials/ Items of test | Type of tests performed | Specifications/ Standard test methods/Techniques used | Range of testing/Limit of detection |
|------|------------------------------------|--|---|-------------------------------------|
| | | Di-Iso-Butyl Phthalate (DIBP) Dicyclohexyl Phthalate (DCHP) Di-Iso-Octyl Phthalate (DIOP) 1,2-Benzenedicarboxylic acid, Di-C7-11 Branched and Linear Alkyl Esters (DHNUP) 1,2-Benzenedicarboxylic acid, Di-C6-8 Branched Alkyl Esters, C7-rich (DIHP) | | |
| 108 | Water, waste water & sludge | Polycyclic Aromatic Hydrocarbons (PAHs): Benzo[a]pyrene (BaP) Anthracene Pyrene Benzo[ghi] perylene Benzo[e]pyrene Indeno[1,2,3-cd] pyrene Benzo[j]fluoranthene Benzo[b]fluoranthene Fluoranthene Benzo[k]fluoranthene Acenaphthylene Chrysene Dibenz[a,h]anthracene Benzo[a]anthracene Acenaphthene Phenanthrene Fluorene Naphthalene | BD-RSTS-OR-SOP-106-01 (USEPA 8270, Solvent extraction followed by GC/MS analysis) | 0.026-0.382 µg/L |
| 109 | Water, waste water & sludge | Heavy Metals: Total Antimony (Sb) Total Arsenic (As) Total Cadmium (Cd) Total Chromium (Cr) Total Hexavalent Chromium (Cr-VI) Total Cobalt (Co) Total Copper (Cu) Total Lead (Pb) Total Mercury (Hg) Total Nickel (Ni) | BD-RSTS-INOR-SOP-201-01 & BD-RSTS-INOR-SOP-202-01 (USEPA 200.7, USEPA 200.8, USEPA 6010C, USEPA 6020A, Acid Digestion with ICP or ICP/MS analysis; Solvent extraction and derivatisation followed by UV/Vis analysis) | 0.0001-0.0015 mg/l |


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Certificate Number: 01.003.12 **Issued on:** 31 December 2017
Last Amended on: 13 Nov 2019 **Valid until:** 03 November 2020
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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 |
|-----------------------------|--|---|---|---|
| | | Total Silver (Ag) Total Zinc (Zn) | | |
| Field: ENVIRONMENTAL | | | | |
| 1 | Ambient Air | Measurement of Suspended Particulate Matter (SPM) in ambient air | In-house method based on IS 5182-4 (1999) | 5 µg/m ³ |
| 2 | Ambient Air | Measurement of Respirable Particulate Matter (PM10) in ambient air | In-house based on IS 5182 (Part-23): 2006 | 5 µg/m ³ |
| 3 | Ambient Air | Measurement of Sulphur dioxide in ambient air | In-house based on IS: 5182 (Part 2): 2001 | 5 µg/m ³ |
| 4 | Ambient Air | Measurement of Nitrogen oxides in ambient air | In-house based on IS: 5182 (Part 6): 2006 | 5 µg/m ³ |
| 5 | Stack Emission | Measurement of Suspended Particulate Matter (SPM) from stationary sources | In-house method based on IS: 11255 (Part 1) - 1985 | 1 mg/m ³ |

END



Quality Manager