



# ACCREDITATION CERTIFICATE

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

**Hohenstein Laboratories Bangladesh Limited, Dhaka**

**122/1 Love Road, Tejgaon Industrial Area**

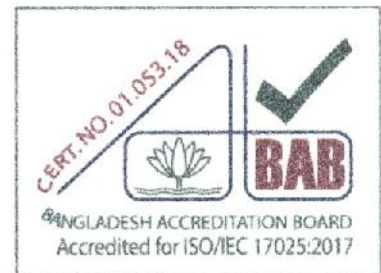
**Dhaka-1208, Bangladesh**

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

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

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

Certificate Number : **01.053.18**  
Accreditation Date : **25 October 2018**  
Date of Issuance : **28 October 2021**  
Date of Expiration : **24 October 2024**



  
**Md. Monwarul Islam**  
Director General

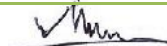
This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.

## SCOPE OF ACCREDITATION

(For Testing Laboratory)

<b>CAB Name &amp; Address:</b>	<b>Hohenstein Laboratories Bangladesh Limited, Dhaka, 122/1 Love Road, Tejgaon Industrial Area, Dhaka-1208, Bangladesh.</b>		
<b>Accreditation Standard:</b>	<b>ISO/IEC 17025:2017</b>	<b>Accreditation Date:</b>	25 Oct 2018
<b>Certificate Number:</b>	01.053.18	<b>Issued on:</b>	28 Oct 2021
<b>Last Amended on:</b>	NA	<b>Valid until:</b>	24 Oct 2024
<b>Amendment no:</b>	NA		

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
<b>Field: Mechanical Testing</b>				
01	Textiles, Garment & Accessories	<i>Colour fastness to artificial light: Xenon arc fading lamp test</i>	<i>DIN EN ISO 105 B02-2014, ISO 105 B02-2014, BS EN ISO 105 B02-2014, AATCC 16.3 (Option3)-2020</i>	BWS 1 to 8 Grade 1 to 5
02	Textiles, Garment & Accessories	<i>Colour fastness to light of textiles wetted with artificial perspiration</i>	<i>DIN EN ISO 105 B07-2009, ISO 105 B07-2009, EN ISO 105 B07-2009, BS EN ISO 105 B07-2009, AATCC 125: 2020.</i>	BWS 1 to 8 Grade 1 to 5
03	Textiles, Garment & Accessories	<i>Colour fastness to water</i>	<i>DIN EN ISO 105 E01-2013, ISO 105 E01-2013, EN ISO 105 E01-2013, BS EN ISO 105 E01-2013, AATCC 107-2013.</i>	1 to 5 grade
04	Textiles, Garment & Accessories	<i>Colour fastness to sea water</i>	<i>DIN EN ISO 105 E02-2013, ISO 105 E02-2013, EN ISO 105 E02-2013, BS EN ISO 105 E02-2013, AATCC 106-2013.</i>	1 to 5 grade
05	Textiles, Garment & Accessories	<i>Colour fastness to chlorinated water (swimming-pool water)</i>	<i>DIN EN ISO 105 E03-2010, ISO 105 E03-2010, EN ISO 105 E03-2010, BS EN ISO 105 E03-2010, AATCC 162:2011.</i>	1 to 5 grade
06	Textiles, Garment & Accessories	<i>Colour fastness to perspiration</i>	<i>DIN EN ISO 105 E04-2013, ISO 105 E04-2013, BS EN ISO 105 E04-2013, AATCC 15-2013.</i>	1 to 5 grade
07	Textiles, Garment & Accessories	<i>Colour fastness to spotting: Acid</i>	<i>DIN EN ISO 105 E05:2010, ISO 105 E05:2010, EN ISO 105 E05:2010, BS EN ISO 105 E05:2010. AATCC 6-2016.</i>	1 to 5 grade
08	Textiles, Garment & Accessories	<i>Colour fastness to spotting: Alkali</i>	<i>DIN EN ISO 105 E06-2006, ISO 105 E06-2006,</i>	1 to 5 grade

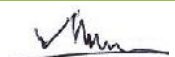
  
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			<i>EN ISO 105 E06-2006, BS EN ISO 105 E06-2006, AATCC 6-2016.</i>	
09	Textiles, Garment & Accessories	<i>Colour fastness to spotting: Water</i>	<i>DIN EN ISO 105 E07-2010, ISO 105 E07-2010, BS EN ISO 105 E07-2010, AATCC 104-2014.</i>	1 to 5 grade
10	<i>Textiles, Garment &amp; Accessories</i>	<i>Colour fastness to washing</i>	<i>DIN EN ISO 105 C06-2010, ISO 105 C06-2010, BS EN ISO 105 C06-2010, DIN EN ISO 105 C08-2010, ISO 105 C08-2010, BS EN ISO 105 C08-2010, DIN EN ISO 105 C09, ISO 105 C09:2001/Amd.1: 2003(E) EN ISO 105 C09, BS EN ISO 105 C09-2001, DIN EN ISO 105 C10:2007, ISO 105 C10:2007, EN ISO 105 C10:2007, BS EN ISO 105 C10:2007, AATCC 61-2020.</i>	1 to 5 grade
11	<i>Textiles, Garment &amp; Accessories</i>	<i>Colour fastness to dry cleaning of using perchloroethylene solvent</i>	<i>DIN EN ISO 105 D01-2010, ISO 105 D01-2010, EN ISO 105 D01-2010, BS EN ISO 105 D01-2010, AATCC 132-2013.</i>	1 to 5 grade
12	<i>Textiles, Garment &amp; Accessories</i>	<i>Colour fastness to artificial saliva and sweat</i>	<i>DIN 53160-1 &amp; 2: 2010, STANDARD 100 by OEKO- TEX®</i>	1 to 5 grade
13	<i>Textiles, Garment &amp; Accessories</i>	<i>Colour fastness to bleaching: Hypochlorite/ Peroxide</i>	<i>ISO 105-N01-1993, BS EN 20105-N01-1993, DIN EN ISO 105-N02-1995, ISO 105-N02-1995, EN ISO 105-N02-1995, BS EN ISO 105-N02-1995.</i>	1 to 5 grade

  
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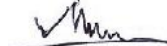


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			AATCC TS-001	
14	<b>Textiles, Garment &amp; Accessories</b>	Colour fastness to organic solvents	DIN EN ISO 105 X05-1997, ISO 105 X05-1994, EN ISO 105 X05-1997, BS EN ISO 105 X05-1997.	1 to 5 grade
15	<b>Textiles, Garment &amp; Accessories</b>	Migration of textile colours into polyvinyl chloride coatings	DIN EN ISO 105-X10:1995 ISO 105-X10:1993 EN ISO 105-X10:1995 BS EN ISO 105-X10:1996	1 to 5 grade
16	<b>Textiles, Garment &amp; Accessories</b>	Colour fastness to rubbing / Crocking	DIN EN ISO 105 X12-2016, ISO 105 X12-2016, EN ISO 105 X12-2016, BS EN ISO 105 X12-2016, AATCC 8-2016.	1 to 5 grade
17	<b>Textiles, Garment &amp; Accessories</b>	Colour fastness to the potential to phenolic yellowing	DIN EN ISO 105 X18-2007, ISO 105 X18-2007, EN ISO 105 X18-2007, BS EN ISO 105 X18-2007.	1 to 5 grade
18	<b>Textiles, Garment &amp; Accessories</b>	Colour fastness to dye Transfer in storage/ Sublimation in storage	DIN 54056- 2017 AATCC 163-2020	1 to 5 grade
19	<b>Textiles, Garment &amp; Accessories</b>	Determination of colour fastness of dyeing and prints to bleaching: hypochlorite (mild)	DIN 54034:2018	1 to 5 grade
20	<b>Textiles, Garment &amp; Accessories</b>	Colour Difference Assessment	Visual Method ( Per sample) Computer Spectrophotometric Analysis	1 to 5 grade
21	<b>Textiles, Garment &amp; Accessories</b>	Colour fastness to Ironing	DIN EN ISO 105 X11:1996 ISO 105 X11:1994 EN ISO 105 X11:1996 BS EN ISO 105 X11:1996 AATCC 133:2020	Qualitative
22	<b>Textiles, Garment &amp; Accessories</b>	Colour fastness to Dry heat	DIN EN ISO 105 P01:1995 ISO 105 P01:1993 EN ISO 105 P01:1995 BS EN ISO 105 P01:1995	Qualitative

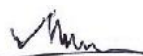
  
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			<i>AATCC 117:2019</i>	
23	<i>Textiles, Garment &amp; Accessories</i>	<i>Presence of odour</i>	<i>GB 18401:2010 clause 6.7, SNR195651-2015</i>	Qualitative
24	<i>Textiles, Garment &amp; Accessories</i>	<i>Absorbency of textile</i>	<i>AATCC 79-2018</i>	0 to 60 sec
25	<i>Textiles, Garment &amp; Accessories</i>	<i>Threads per unit length/ Fabric Count (Stitch density)</i>	<i>ASTM D 3775:2017 DIN EN 1049-2:1994 EN 1049-2:1993 BS EN 1049-2:1994 ISO 7211/2:1984 ASTM D 3887:2008 BS 5441:1988+A1:2019</i>	2 to 100 per cm
26	<i>Textiles, Garment &amp; Accessories</i>	<i>Yarn number based on short length specimens</i>	<i>ASTM D 1059:17, ISO 7211/5:2020</i>	1s-120s Ne
27	<i>Textiles, Garment &amp; Accessories</i>	<i>Mass per unit area &amp; unit length of fabric</i>	<i>BS 2471:2005 ASTM D 3776/D 3776 M:2020a Option-C ISO 3801- Method 5:1977 DIN EN 12127:1997</i>	5 GSM-500 GSM Full range: GUL
28	<i>Textiles, Garment &amp; Accessories</i>	<i>Fabric width</i>	<i>ISO 22198:2006 ASTM D 3774:2018 DIN EN 1773:1997</i>	1 cm -300 cm
29	<i>Textiles, Garment &amp; Accessories</i>	<i>Pilling Resistance -Pilling Box Method -Martindale Method -Random Tumbler Method</i>	<i>DIN EN ISO 12945-1:2021 ISO 12945-1:2020, EN ISO 12945-1:2020, BS EN ISO 12945-1:2020, DIN EN ISO 12945-2:2021, ISO 12945-2:2020, EN ISO 12945-2:2020, BS EN ISO 12945-2:2020, DIN EN ISO 12945-3:2021, ISO 12945-3:2020,</i>	1 to 5 Grade

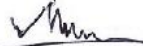
  
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			EN ISO 12945-3:2020, BS EN ISO 12945-3:2020, ASTM D3512/D 3512M-16.	
30	<b>Textiles, Garment &amp; Accessories</b>	<i>Abrasion (Martindale)</i> <i>resistance</i>	DIN EN ISO 12947-1:2007, ISO 12947-1:1998, EN ISO 12947-1:1998, BS EN ISO 12947-1:1998, DIN EN ISO 12947-2:2017, ISO 12947-2:2016, EN ISO 12947-2:2016, BS EN ISO 12947-2:2016, ASTM D 4966:12, DIN EN ISO 12947-3:2007, ISO 12947-3:1998/Cor. 1:2002, EN ISO 12947-3:1998, BS EN ISO 12947-3:1998, DIN EN ISO 12947-4:2007, ISO 12947-4:1998/Cor. 1:2002, EN ISO 12947-4:1998, BS EN ISO 12947-4:1998.	-Up to 99999 rubs for breakdown -Up to 30% for weight loss - 1 to 5 Grade
31	<b>Textiles, Garment &amp; Accessories</b>	<i>Breaking strength and elongation (Strip Test)</i>	DIN EN ISO 13934-1:2013, ISO 13934-1:2013, EN ISO 13934-1:2013, BS EN ISO 13934-1:2013, ASTM D 5035-2011.	10 N to 5000 N 0-200%
32	<b>Textiles, Garment &amp; Accessories</b>	<i>Breaking strength and elongation (Grab Test)</i>	DIN EN ISO 13934-2:2014, ISO 13934-2:2014, EN ISO 13934-2:2014, BS EN ISO 13934-2:2014, ASTM D 5034-2021.	10 N to 5000 N

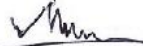
  
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33	<b>Textiles, Garment &amp; Accessories</b>	<i>Determination of Single end Breaking force and elongation at break using constant rate of extension (Yarns from packages)</i>	<i>DIN EN ISO 2062:2010 ASTM D 2256 / D2256M:2021</i>	
34	<b>Textiles, Garment &amp; Accessories</b>	<i>Seam Properties -Seam Strength -Seam Slippage</i>	<i>DIN EN ISO 13935-1:2014, ISO 13935-1:2014, EN ISO 13935-1:2014, BS EN ISO 13935-1:2014, DIN EN ISO 13935-2:2014, ISO 13935-2:2014, EN ISO 13935-2:2014, BS EN ISO 13935-2:2014, DIN EN ISO 13936-1:2004, ISO 13936-1:2004, EN ISO 13936-1:2004, BS EN ISO 13936-1:2004, DIN EN ISO 13936-2:2004, ISO 13936-2:2004, EN ISO 13936-2:2004, BS EN ISO 13936-2:2004, ASTM D 1683/D1683M-2018.</i>	<i>1N to 5000 N 0-80% Up to 10mm</i>
35	<b>Textiles, Garment &amp; Accessories</b>	<i>Tearing strength of fabrics -Elmendorf - Single Rip - Double tear</i>	<i>DIN EN ISO 13937-1:2000, ISO 13937-1:2000, BS EN ISO 13937-1:2000, ASTM D 1424-2009, DIN EN ISO 13937-2:2000, ISO 13937-2:2000, EN ISO 13937-2:2000,</i>	<i>Elmendorf= 1N-128N Others= 1 N to 5000 N</i>

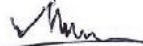
  
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			<i>BS EN ISO 13937-2:2000, ASTM D 2261-2017, BS 4303-1968, ASTMD 5587-2015, DIN EN ISO 13937-3:2000, ISO 13937-3:2000, EN ISO 13937-3:2000, BS EN ISO 13937-3:2000, DIN EN ISO 13937-4:2000, ISO 13937-4:2000, EN ISO 13937-4:2000, BS EN ISO 13937-4:2000.</i>	
36	<b>Textiles, Garment &amp; Accessories</b>	<i>Bursting strength -Pneumatic -Ball Burst</i>	<i>DIN EN ISO 13938-2:2020, ISO 13938-2:2019, EN ISO 13938-2:2019, BS EN ISO 13938-2:2019, ASTM D3786/D 3786M-2018, ASTM D3787-2016.</i>	(1-2000) KPa 1N-5000N
37	<b>Zipper &amp; Toys</b>	<i>Slide fasteners (Zips)- Specification</i>	<i>ASTM D 2061:07 (2021) 16 CFR 1500:53 DIN EN 16732:2016 EN 16732:2015 BS EN 16732:2015</i>	(1 N to 5000 N) Up to 99999 cycles
38	<b>Textiles, Garment &amp; Accessories</b>	<i>Resistance to Unsnapping of Snap Fasteners</i>	<i>ASTM D 4846:96 (2021)</i>	1N – 300 N
39	<b>Textiles, Garment &amp; Accessories</b>	<i>Stretch and Recovery/ Tension and Elongation of Elastic fabrics</i>	<i>DIN EN /EN 14704-1:2005 BS EN 14704-1:2005 DIN EN ISO 20932-1:2020</i>	1 to 200%

  
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			EN ISO 20932-1:2020 BS EN ISO 20932-1:2020 ASTM D 4964:96 (2020) ASTM D 3107:2011 ASTM D 2594:2021	
40	<i>Textiles, Garment &amp; Accessories</i>	<i>Resistance to surface wetting (Spray-test)</i>	DIN EN ISO 4920:2012 ISO 4920:2012 EN ISO 4920:2012 BS EN ISO 4920:2012 DIN EN 24920:1992 AATCC 22:2017	ISO 1 to ISO 5 (0 to 100)
41	<i>Textiles, Garment, Accessories and Toys</i>	<i>Torque Test</i>	DIN EN 71 Part 1-Clause- 8.3:2018, 16 CFR 1500.51/52/53	Qualitative
42	<i>Textiles, Garment &amp; Toys</i>	<i>Attachment/Pull strength Snap/Button/Rivets</i>	off of DIN EN 71 Part-1:2018 EN 71 Part-1:2014+A1: 2018 BS EN 71 Part-1:2014+A1: 2018 ASTM D7142-05 (R2016)	1 N -600 N (0.1 Kg – 60 Kg)
43	<i>Textiles, Garment &amp; Toys products (Tensile Metal Glass, Plastic, Stone, Leather Accessories) in</i>	<i>Small Parts- Choking Hazard Test (Small part cylinder of 31.7 mm inner diameter)</i>	DIN EN 71 Part 1-Clause- 8.2:2018, EN 71 Part-1-Clause- 8.2:2014+A1:2018 BS EN 71 Part-1-Clause- 8.2:2014+A1:2018	Qualitative

  
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	<i>Garments, Metal Jewellery, other article intended to use for children</i>		<i>16 CFR 1501, ASTM F 963:17, Sec-4.6</i>	
44	<i>Textiles, Garment &amp; Toys products (Tensile Metal Glass, Plastic, Stone, Leather Accessories) in Garments, Metal Jewellery, other article intended to use for children</i>	<i>Determination of Sharp Points Under a Force of 4.45 N (1 Pound)</i>	<i>DIN EN 71 Part 1-Clause-8.12:2018, EN 71 Part-1-Clause-8.12:2014+A1:2018 BS EN 71 Part-1-Clause-8.12:2014+A1:2018 16 CFR 1500.48, ASTM F 963:17, Sec-4.9</i>	Qualitative
45	<i>Textiles, Garment &amp; Toys products (Tensile Metal Glass, Plastic, Stone, Leather Accessories) in Garments, Metal Jewellery, other article intended to use for children</i>	<i>Determination of Sharp Edges Under a Force of up to 8.90 N (1.35 Pound)</i>	<i>DIN EN 71 Part 1-Clause-8.11:2018, EN 71 Part-1-Clause-8.11:2014+A1:2018 BS EN 71 Part-1-Clause-8.11:2014+A1:2018 16 CFR 1500.49, ASTM F 963:17, Sec-4.7</i>	Qualitative
46	<i>Textiles, Garment &amp; Toys products</i>	<i>Safety of children's clothing. Cords and Drawstrings on children's clothing Specification.</i>	<i>DIN EN 14682:2015, EN 14682:2014 BS EN 14682:2014 ASTM F 1816:2018</i>	Qualitative
47	<i>Textiles, Garment &amp; Accessories</i>	<i>Dimensional Stability to washing and drying</i>	<i>DIN EN ISO 3759:2011 ISO 3759:2011 EN ISO 3759:2011</i>	Elongation & shrinkage 0 to 50%

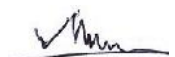
  
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			<i>BS EN ISO 3759:2011</i> <i>DIN EN ISO 5077:2008</i> <i>ISO 5077:2007</i> <i>EN ISO 5077:2008</i> <i>BS EN ISO 5077:2008</i> <i>DIN EN ISO 6330:2013</i> <i>ISO 6330:2012</i> <i>EN ISO 6330:2012</i> <i>BS EN ISO 6330:2012</i> <i>AATCC 135:2018</i> <i>AATCC150:2018</i>	
48	<b>Textiles, Garment &amp; Accessories</b>	<i>Dimensional Stability to Dry Cleaning</i>	<i>AATCC 158:2016</i>	Elongation & shrinkage 0 to 50%
49	<b>Textiles, Garment &amp; Accessories</b>	<i>Appearance after fabric after repeated home laundering</i>	<i>AATCC 124:2018,</i> <i>ISO 7768:2009</i> <i>BS ISO 7768:2009</i>	Grade: SA-1 to SA-5
50	<b>Textiles, Garment &amp; Accessories</b>	<i>Smoothness of seams in fabrics after repeated home laundering</i>	<i>AATCC 88B:2018,</i> <i>ISO 7770:2009</i> <i>BS ISO 7770:2009</i>	Grade: SS-1 to SS-5
51	<b>Textiles, Garment &amp; Accessories</b>	<i>Retention of creases in fabrics after repeated home laundering</i>	<i>AATCC 88C: 2018,</i> <i>ISO 7769:2009</i> <i>BS ISO 7769:2009</i>	Grade: CR-1 to CR-5
52	<b>Textiles, Garment &amp; Accessories</b>	<i>Appearance of apparel and other textile products after repeated home laundering</i>	<i>DIN EN ISO 15487:2018,</i> <i>ISO 15487:2018</i> <i>EN ISO 15487:2018</i> <i>BS EN ISO 15487:2018</i> <i>AATCC 143:2018,</i>	Grade: SA-1 to SA-5 Grade: SS-1 to SS-5 Grade: CR-1 to CR-5
53	<b>Textiles, Garment &amp; Accessories</b>	<i>Appearance assessment) (visual after laundering</i>	<i>In-house method (SOP-QM-11.BD.02.A4.778)</i>	1 to 5 Grade Spirality: Up to ±50%

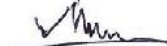
  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
54	<i>Textiles, Garment &amp; Accessories</i>	<i>Spirality / Skewing of fabrics &amp; garments</i>	<i>ISO 16322-1:2005, BS ISO 16322-1:2005 ISO 16322-2: 2021, BS ISO 16322-2: 2021 ISO 16322-3:2021, BS ISO 16322-3: 2021 AATCC 179:2019</i>	Up to $\pm 50\%$
55	<i>Textiles, Garment &amp; Accessories</i>	<i>Bow &amp; Skewness</i>	<i>ASTM D3882:2020,</i>	0 to $\pm 50\%$
56	<i>Textiles, Garment &amp; Accessories</i>	<i>Durability Wash of garment/Print/Motif/ Applique/Embroidery</i>	<i>In-house method (SOP-QM-11.BD.02.A4.732)</i>	Qualitative
57	<i>Textiles, Garment &amp; Accessories</i>	<i>Fibre analysis- Qualitative &amp; quantitative</i>	<i>DIN EN ISO 1833, ISO 1833 EN ISO 1833 BS EN ISO 1833 ISO 5088, BS 4407:1988, ASTM D 629-2015, AATCC 20-2018, AATCC 20A-2020, FZ/T 01057-2007, GB/T 2910-2009, EU 1007/2011, AS 2001.7-2005</i>	Up to 100 %
58	<i>Textiles, Garment &amp; Accessories</i>	<i>Flammability of children's sleepwear (up to 14 years) in the USA</i>	<i>16 CFR Part 1615 / 1616</i>	1 to 10 Inch
59	<i>Textiles, Garment &amp; Accessories</i>	<i>Flammability of Apparels</i>	<i>CPSC 16 CFR Part 1610, ASTM D 1230-17</i>	Up to 100 %
60	<i>Textiles, Garment &amp; Accessories</i>	<i>Flammability of Textile Clothing &amp; Nightwear</i>	<i>DIN EN 1103:2006, EN 1103:2005 BS EN 1103:2005</i>	1-3600 Sec

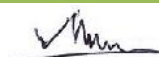
  
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			DIN EN 14878:2007 /AC:2009, EN 14878:2007 BS EN 14878:2007 DIN EN ISO 6940:2004, ISO 6940:2004 EN ISO 6940:2004 BS EN ISO 6940:2004 DIN EN ISO 6941:2004 ISO 6941:2004 EN ISO 6941:2004 BS EN ISO 6941:2004 BS 5438:1976 Test 1, 2 & 3, BS 5722:1984 Test 3, DIN EN 1101:2005 EN 1101:2005 BS EN 1101:2005 DIN EN 1102:2016, EN 1102:2016 BS EN 1102:2016	
61	<b>Textiles, &amp; Accessories</b>	Test methods for accessories: Metallic accessories —Corrosion resistance.	DIN EN ISO 22775:2005 ISO 22775:2004 EN ISO 22775:2004 BS EN ISO 22775:2004	Qualitative
62	<b>Textiles, Garment &amp; Accessories</b>	Fiber Fineness	DIN EN ISO 137:2016 ISO 137:2015 EN ISO 137:2015 BS EN ISO 137:2015 DIN 53811:1970	≤ 1 dtex
63	<b>Textiles, Garment &amp; Accessories</b>	Determination of Moisture drying rate	ISO 17617:2014	1 Mins to 60 min
64	<b>Textiles, Garment</b>	Determination of water	DIN 53924:2020	1mm -250 mm /

  
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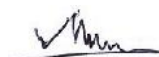


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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	<i>&amp; Accessories</i>	<i>absorption velocity of textile fabrics (capillary rise method)</i>		180 Sec
<b>Field: Chemical Testing</b>				
65	<i>Paint and other similar surface coatings</i>	<i>Determination of content by ICP-MS</i>	<i>Lead</i> SOP-QM-11 BD 02 A1 027 (according to DIN EN 16711-1:02-2016 and DIN EN ISO 17294-2:2016, CPSC-CH-E1003-09.1 ;2011; STANDARD 201 by OEKO-TEX® M-21 and ML-21)	LOD=5 mg/kg
66	<i>Metal children's products (including children's metal jewelry)</i>	<i>Determination of content by ICP-MS</i>	<i>Lead</i> SOP-QM-11 BD 02 A1 027 (according to DIN EN 16711-1:02-2016 and DIN EN ISO 17294-2:2016, CPSC-CH-E1001-08.3, 2012; STANDARD 201 by OEKO-TEX® M-21 and ML-21)	LOD=5 mg/kg
67	<i>Non-metal children's products</i>	<i>Determination of content by ICP-MS</i>	<i>Lead</i> SOP-QM-11 BD 02 A1 027 (according to DIN EN 16711-1:02-2016 and DIN EN ISO 17294-2:2016, CPSC-CH-E1002-08.3;2012; STANDARD 201 by OEKO-TEX® M-21 and ML-21)	LOD=5 mg/kg
68	<i>Textiles, leather and accessories</i>	<i>Determination of total heavy metal content with ICP-MS</i>	SOP-QM-11 BD 02 A1 027 (according to DIN EN 16711-1:02-2016 and DIN EN ISO 17294-2:2016, DIN EN ISO 17072-2:2019, STANDARD 201 by OEKO-TEX® M-21 and ML-21)	LOD=5 mg/kg
69	<i>Plasticized component part of children's toy or childcare article,</i>	<i>Standard Procedure Determination Phthalates</i>	<i>Operating for of</i> SOP-QM-11 BD 02 A3 002 (according to CPSC-CH-C1001-09.4 (2018) and DIN EN ISO 14389:2014; CEN ISO/TS	LOD=50 mg/kg

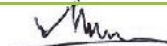
  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
	<i>leather and accessories</i>		16181: 2011; STANDARD 201 by OEKO-TEX® M-18 and ML-18 and determination of tris(2-chlorethyl) phosphate, bisphenol A, UV-Stabilizer A and selected Siloxanes)	
70	<b>Metal products</b>	Determination of total lead and cadmium in metallic consumer products with the help of ICP-MS	SOP-QM 11 BD 02 A1 026 (according to 16 CFR 1303, Product Safety Reference Manual, Book 5, part B (method C-02.2, C-02.3, C-02.4))	LOD=5 mg/kg
71	<b>Textile, leather and accessories</b>	Analysis of commodity goods - Methods for determination of certain aromatic amines in textiles & Leather derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with or without extraction]	SOP-QM-11 BD 02 A2 001 (According to DIN EN 14362-1: 2017, DIN EN 14362-3;2017, DIN EN ISO 17234-1:2020 and DIN EN ISO 17234-2:2011; STANDARD 201 by OEKO-TEX® M-3, ML-3 and ECO PASSPORT by OEKO-TEX® M-EP-1 )	LOD=5 mg/kg
72	<b>Textile, leather and accessories</b>	Analysis of commodity goods - Methods for determination of certain azo colorants in textiles & Leather - Part 3: Detection of the use of certain azo colorants, which release 4-Aminoazobenzene	SOP-QM-11 BD 02 A2 001 (According to DIN EN 14362-1: 2017, DIN EN 14362-3;2017, DIN EN ISO 17234-1:2020 and DIN EN ISO 17234-2:2011; STANDARD 201 by OEKO-TEX® M-3, ML-3 and ECO PASSPORT by OEKO-TEX® M-EP-1 )	LOD=5 mg/kg
73	<b>Textile materials, textile products</b>	Determination of formaldehyde - Part 1: Free and hydrolyzed formaldehyde (water extraction method)	SOP-QM-11 BD 02 A5 006 (according to JIS L 1041-2011 or Law 112 (Acetyl acetone method), DIN EN ISO 14184-1:2011)	LOD=10 mg/kg

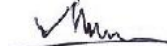
  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
74	<b>Textile, leather and accessories</b>	<i>Determination of pH value in aqueous extract of textiles and leather.</i>	<i>SOP-QM-11 BD 02 A5 013 (according to DIN EN ISO 3071:2020, DIN EN ISO 4045:2018, STANDARD 201 by OEKO-TEX® M-1 and ML-1)</i>	0 – 14
75	<b>Coated and Non-coated metal materials</b>	<i>Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin</i>	<i>SOP-QM 11BD 02 A1 025 (according to DIN EN 1811:2015, DIN EN 12472:2020 and subsequent measurement according to DIN EN ISO 17294-2:2017)</i>	LOD = 0.1 µg/cm <sup>2</sup> /week
76	<b>Metal materials</b>	<i>Screening tests for nickel release from alloys and coatings in items that come into direct and prolonged contact with the skin (Nickel Spot test)</i>	<i>SOP-QM 11 BD 02 A1 025 (According to CR 12471:2002)</i>	Qualitative
77	<b>Textile, leather and accessories</b>	<i>Determination of Extractable Heavy Metals (As, Pb, Cd, Co, Ni, Cr, Cu, Hg, Mn, Zn, Sb, Mn, Ba and Se) in artificial acidic sweat solution by ICP-MS</i>	<i>SOP-QM-11 BD 02 A1 029 (according to DIN EN 16711-2:2016; DIN EN ISO 17072-1:2019, Textiles; STANDARD 201 by OEKO-TEX® M-10 &amp; ML-10)</i>	LOD- As, Pb, Cd- 0.05 mg/kg, Cr, Co, Ni- 0.1 mg/kg, Cu, Sb, Zn, Mn – 4 mg/kg, Hg, Sn:- 0.01 mg/kg, Ba- 4 mg/kg
78	<b>Textile, Polymer, toys, leather and accessories</b>	<i>Determination of selected polycyclic aromatic hydrocarbons (PAHs) by means of gas chromatography</i>	<i>SOP-QM-11 BD 02 A3 012 (according to DIN EN 17132:2019, AfPS GS 2019:01, DIN EN ISO 4044:2017)</i>	LOD (PAHs) = 0.1 mg/kg
79	<b>Textile and accessories</b>	<i>Determination of selected chlorophenols</i>	<i>SOP-QM-11 BD 02 A3 005: (Extraction with microwave,</i>	LOD = 0.02

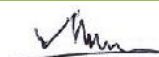
  
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			According to DIN 50009:2021 STANDARD 201 by OEKO- TEX® M-7)	mg/kg
80	leather and accessories	Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol	SOP-QM 11 BD 02 A3 023 (According to DIN EN ISO 17070:2015, Modification: according to STANDARD 201 by OEKO- TEX® ML-7)	LOD = 0.02 mg/kg
81	Textiles, leather and accessories	Determination of Organotin compounds with Extraction Facilitated by Carbamate / GC-MS/MS analysis	SOP-QM-11 BD 02 A3 011 (according to DIN EN ISO 22744-1&2:2020; DIN EN ISO 23161: 2011; CEN ISO/TS 16179:2012; STANDARD 201 by OEKO-TEX® M-17 + ML- 17)	LOD = 0.05mg/kg
82	Textiles, leather and accessories	Determination of Disperse dyestuffs and other dyes Modification: Determination of prohibited disperse dyestuffs, other dyes and Quinoline .	SOP-QM-11 BD 02 A2 003 (according to DIN 54231: 2005 , DIN EN ISO 4044:2017; STANDARD 201 by OEKO- TEX® M-4-A & ML-4-A as M- 4-B & ML-4-B	LOD = 0.5 mg/l
83	Textiles, leather and accessories	Determination of content of chlorinated benzenes and toluenes	SOP-QM-11 BD 02 A3 001 (according to DIN EN 17137:2019; Solvent extraction DIN EN ISO 6468:1997 mod;Standard 201 by OEKO-TEX® M-2 + ML- 2)	LOD = 0.1 mg/kg
84	Textiles, leather and accessories	Textiles - Method for the detection and determination of alkylphenoethoxylates (APEO) - by HPLC-	SOP-QM-11 BD 02 A3 008 (according to DIN EN 18254-1:2016 and EN ISO 18218-1:2019 Textiles, STANDARD 201 by OEKO-	LOD = 4 mg/kg

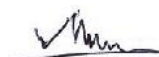
  
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		<i>MS/MS (Modification: additional determination of alkylphenols)</i>	<i>TEX® M-25 &amp; ML-25.</i>	
85	<b>Textiles, leather and accessories</b>	<i>Poly- and perfluorinated compounds (PFCs)</i>	<i>SOP-QM-11 BD 02 A3 007 (According to DIN 38414-14:2011; EN ISO 23702-1:2018; STANDARD 201 by OEKO-TEX® M-22 + ML-22)</i>	0.002 – 0.4 mg/kg
86	<b>Textiles, leather and accessories</b>	<i>Short chain and medium chain chlorinated paraffins (SCCP/MCCP)</i>	<i>* Test Method/Standard against which tests are performed</i>	5 mg/kg - 50 mg/kg (each of SCCP and MCCP)
87	<b>Textiles, leather and accessories</b>	<i>Dimethyl fumarate (DMFu)</i>	<i>SOP-QM-11 BD 02 A3 017 (According to DIN EN ISO 18219:2012; STANDARD 201 by OEKO-TEX® M-24 + ML-24 and additional testing of medium chain chlorinated paraffins (MCCP))</i>	0.02 – 0.2 mg/kg
88	<b>Leather and accessories</b>	<i>Chemical determination of formaldehyde content</i>	<i>SOP-QM-11 BD 02 A3 015 (According to DIN CEN ISO/TS 16186:2012; DIN EN 17130:2019, STANDARD 201 by OEKO TEX ® M 27 + ML 27)</i>	5 – 250 mg/kg
89	<b>Textiles and accessories</b>	<i>Migration of certain elements</i>	<i>SOP-QM-11 BD 02 A5 016 (According to DIN EN ISO 17226-1: 2019)</i>	0.125 – 50 mg/kg other than Hg (0.0125 – 0.5 mg/kg (only Hg))
90	<b>Textiles, leather and accessories</b>	<i>Determination of phenol and bisphenol A</i>	<i>SOP-QM-11 BD 02 A6 001 (According to DIN EN 71-3)</i>	Phenol:0.5–50mg/l; Bisphenol A:0.01– 0.50 mg/l
91	<b>Textiles, leather and accessories</b>	<i>Determination of flame retardants</i>	<i>SOP-QM-11 BD 02 A6 009; (According to DIN EN 71-10 &amp;</i>	0.01 mg/l – 0.25 mg/l

  
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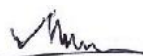


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			11, DIN EN ISO 14389:2013)	
92	Leather and accessories	Determination of Chromium VI	SOP-QM-11 BD 02 A3 020 (according to DIN EN ISO 17881-2:2016; STANDARD 201 by OEKO-TEX® M-30-B + ML-30-B)	0.25 – 10.0 mg/kg
93	Textiles, leather and accessories	Determination of volatile Organic Compounds (VOC)	SOP-QM-11 BD 02 A3 024 (according to VDA 278:2011; DINENISO11890-2; (GC/MS headspace 45 minutes at 120 degrees C) STANDARD 201 by OEKO-TEX® M-31 & ML-31)	VOC's, Benzene- 0.1-1 mg/kg; Xylol, Cresol, 2-Methoxyethano l, Ethylen-glycol-dimethylether – 2-20 mg/kg ; Other substances ; - 1-10 mg/kg
94	Textiles and accessories	Determination of nitrosamines and nitrosable substances	SOP-QM-11 BD 02 A3 029(according to DIN EN 71-12; STANDARD 201 by OEKO-TEX® M-34 & ML-34)	0.05 – 1.00 mg/kg for nitrosamines and 0.07 – 1.30 mg/kg for N-nitrosable substances
95	Textiles and accessories	Determination of pesticides	SOP-QM-11 BD 02 A3 004 (according to STANDARD 201 by OEKO-TEX® M-6 A & ML-6-A)	0.25 mg/l – 2 mg/l
96	Textiles, leather and accessories	Determination of dimethylformamide (DMFa)	SOP-QM-11 BD 02 A3 016 (according to DIN CEN ISO/TS 16189:2013; OEKO TEX ® Standard 201 M 26)	1.0 mg/l - 20.0 mg/l
97	Textiles and accessories	Determination of UV-stabilizers	SOP-QM-11 BD 02 A3 019 (according to STANDARD 201	100 – 1000 mg/kg

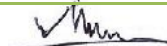
  
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			by OEKO-TEX® M-28 + ML-28)	
98	<i>Textiles and accessories</i>	<i>Identification of Polyvinyl Chloride (PVC) and Polyurethane (PU)</i>	<i>Polyvinyl chloride (PVC) (Beilstein) and SOP-QM-11 BD 02 A5 020 (FTIR)</i>	Qualitative
99	<i>Leather and accessories</i>	<i>Solvent residues</i>	<i>SOP-QM 11 BD 02 A3 016 (according to DIN CEN ISO/TS 16189:2013)</i>	0.1 mg/l – 20.0 mg/l
100	<i>Leather and accessories</i>	<i>Process preservative agents</i>	<i>SOP-QM 11 BD 02 A3 022 (according to DIN EN ISO 13365-1:2011)</i>	10 – 2000 mg/kg
101	<i>Wastewater</i>	<i>Temperature [°C]</i>	<i>SOP-QM-11 BD 02 A8 021 (According to DIN 38404-4:1976)</i>	5-80°C
102	<i>Wastewater</i>	<i>Determination of Total Organic Carbon (TOC)</i>	<i>SOP-QM-11 BD 02 A8 010 (In-House)</i>	30 mg/l - 300 mg/l
103	<i>Wastewater</i>	<i>TSS</i>	<i>SOP-QM-11 BD 02 A8 005 (According to ISO 11923:1997)</i>	5-600mg/L
104	<i>Wastewater</i>	<i>COD</i>	<i>SOP-QM-11 BD 02 A8 008 (In-House)</i>	40 mg/l – 1000 mg/l
105	<i>Wastewater</i>	<i>Total-N</i>	<i>SOP-QM-11 BD 02 A8 016 (In-House)</i>	5 mg/l – 20 mg/l
106	<i>Wastewater</i>	<i>pH &amp; Conductivity</i>	<i>SOP-QM-11 BD 02 A8 020 (According to DIN EN ISO 10523:2012)</i>	pH : 0-14 / Conductivity = 0.001µS/cm to 1000mS/cm
107	<i>Wastewater</i>	<i>Colour [m-1] (436nm; 525; 620nm)</i>	<i>SOP-QM-11 BD 02 A8 022 (According to DIN EN ISO 7887:2012)</i>	1-10
108	<i>Wastewater</i>	<i>BOD5</i>	<i>SOP-QM-11 BD 02 A8 025 (In-House)</i>	50 mg/l – 500 mg/l
109	<i>Wastewater</i>	<i>Ammonium-N</i>	<i>SOP-QM-11 BD 02 A8 012 (In-House)</i>	1 mg/l – 10 mg/l
110	<i>Wastewater</i>	<i>AOX</i>	<i>SOP-QM-11 BD 02 A8 009 (According to DIN EN ISO 9562:2005)</i>	0.05 mg/l – 3.00 mg/l
111	<i>Wastewater</i>	<i>Oil and Grease</i>	<i>SOP-QM-11 BD 02 A8 019</i>	5 to 1000 mg/L

  
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 Quality Manager

## SCOPE OF ACCREDITATION

(For Testing Laboratory)

<b>CAB Name &amp; Address:</b>	<b>Hohenstein Laboratories Bangladesh Limited, Dhaka, 122/1 Love Road, Tejgaon Industrial Area, Dhaka-1208, Bangladesh.</b>		
<b>Accreditation Standard:</b>	<b>ISO/IEC 17025:2017</b>	<b>Accreditation Date:</b>	25 Oct 2018
<b>Certificate Number:</b>	01.053.18	<b>Issued on:</b>	28 Oct 2021
<b>Last Amended on:</b>	NA	<b>Valid until:</b>	24 Oct 2024
<b>Amendment no:</b>	NA		

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
			<i>(According to EPA Method 1664 Revision B)</i>	
112	<i>Wastewater</i>	<i>Phenol</i>	<i>SOP-QM-11 BD 02 A8 003 (According to DIN EN 12673:1999)</i>	0.2 – 40 µg/L
113	<i>Wastewater</i>	<i>Sulfide</i>	<i>SOP-QM-11 BD 02 A8 011 (According to ISO 10530:1992)</i>	0.1 mg/l – 2.0 mg/l
114	<i>Wastewater/ Sludge</i>	<i>Cyanide</i>	<i>SOP-QM-11 BD 02 A8 014 (In-House) for wastewater and SOP-QM-11 BD 02 A9 011- for sludge. Soil quality - Determination of total cyanide (ISO 11262:2011)</i>	0.01 mg/l – 0.60 mg/l CN
115	<i>Wastewater/Sludge</i>	<i>Determination of selected elements (Sb,Cr,Co,Cu,Ni,Ag,Zn,As, Cd,Pb,Hg,P,Boron, barium, Selenium , Sn in water and sludge ( via ICP-MS)</i>	<i>SOP-QM-11 BD 02 A8 001 (According to DIN EN ISO 17294-2 with Aqua Regia Digestion according to DIN EN ISO 15587-1, DIN EN 13346 Characterization of sludges)</i>	5.0 µg/l - 200 µg/l
116	<i>Wastewater/Sludge</i>	<i>Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)</i>	<i>SOP-QM-11 BD 02 A8 007 (According to DIN EN ISO 18857-2:2012)</i>	0.5 – 1000.0 µg/l
117	<i>Wastewater/Sludge</i>	<i>Chlorobenzenes and Chlorotoluenes</i>	<i>SOP-QM-11 BD 02 A8 002 (According to DIN EN 17137:2019)</i>	0.01 – 1.0 µg/l
118	<i>Wastewater/Sludge</i>	<i>Chlorophenols</i>	<i>SOP-QM-11 BD 02 A8 003 (According to DIN EN 12673:1999)</i>	0.2 – 40 µg/L
119	<i>Wastewater/Sludge</i>	<i>Dyes – Azo (Forming Restricted Amines)</i>	<i>SOP-QM-11 BD 02 A8 017 (According to DIN EN ISO 14362-1 and DIN EN ISO 14362-3)</i>	0.05 - 2.0 µg/l (HPLC-MS/MS)
120	<i>Wastewater/Sludge</i>	<i>Dyes – Carcinogenic or Equivalent Concern</i>	<i>SOP-QM-11 BD 02 A8 007 (In-House)</i>	0.1 – 5.0 µg/l

  
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<b>Accreditation Standard:</b>	<b>ISO/IEC 17025:2017</b>	<b>Accreditation Date:</b>	25 Oct 2018
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<b>Amendment no:</b>	NA		

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		<i>Dyes – Disperse (Sensitizing)</i>		
121	<i>Wastewater/Sludge</i>	<i>Flame Retardants</i>	<i>SOP-QM-11 BD 02 A8 007 (According to DIN EN 16694: 2015)</i>	0.01 – 5.0 µg/l
122	<i>Wastewater/Sludge</i>	<i>Glycols</i>	<i>SOP-QM-11 BD 02 A8 018 (According to ISO 20595:2018)</i>	1 - 20.0 mg/l corresponds to 6 µg/l – 120 µg/l
123	<i>Wastewater/Sludge</i>	<i>Organotin Compounds</i>	<i>SOP-QM-11 BD 02 A8 004 (According to DIN EN ISO 17353: 2005 and DIN EN ISO 23161:2011)</i>	0.01 – 1000 µg/l
124	<i>Wastewater/Sludge</i>	<i>Perfluorinated and Polyfluorinated Chemicals (PFCs)</i>	<i>SOP-QM-11 BD 02 A8 007 (According to DIN 38407-42: 2011)</i>	0.001 – 0.1 µg/l
125	<i>Wastewater/Sludge</i>	<i>Phthalates</i>	<i>SOP-QM-11 BD 02 A8 002 (DIN EN ISO 18856:2005)</i>	1 – 200 µg/l
126	<i>Wastewater/Sludge</i>	<i>Short chain and medium chain chlorinated paraffins (SCCP/MCCP)</i>	<i>SOP-QM-11 BD 02 A8 023 (According to DIN EN ISO 12010:2018)</i>	5 – 50 µg/l
127	<i>Wastewater/Sludge</i>	<i>Polycyclic Aromatic Hydrocarbons (PAHs)</i>	<i>SOP-QM-11 BD 02 A8 002 (According to DIN 38407-39 (F 39))</i>	0.01 – 1.0 µg/l
128	<i>Wastewater/Sludge</i>	<i>Volatile Organic Compounds (VOC) (Carbon disulfide, CS<sub>2</sub>)</i>	<i>SOP-QM-11 BD 02 A8 006 (According to ISO 20595:2018)</i>	1 µg/l – 120 µg/l

\*\*\*END\*\*\*

  
Quality Manager