



# ACCREDITATION CERTIFICATE

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

## GMS Testing Laboratory

Complex of GMS Building-05, 2nd & 3rd Floor  
Shardaganj, Kashimpur, Gazipur, 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 : **01.039.16**  
Accreditation Date : **6 November 2016**  
Date of Issuance : **22 June 2021**  
Date of Expiration : **5 November 2022**



  
**Md. Monwarul Islam**  
Director General

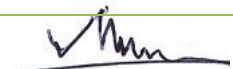
This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.

## SCOPE OF ACCREDITATION

**CAB Name & Address:** GMS Testing Laboratory  
Complex of GMS (Building-05, 2<sup>nd</sup> & 3<sup>rd</sup> floor)  
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**Accreditation Standard:** ISO/IEC 17025:2017      **Accreditation Date:** 6 November 2016  
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**Last Amended on:** NA      **Valid until :** 5 November 2022

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>				
1.	Textile, Garment & Accessories	Dimensional Stability to Washing	ISO 6330:2012 BS EN ISO 6330:2012 ISO 5077:2007 BS EN ISO 5077:2008 ISO 3759:2011 BS EN ISO 3759:2011	Elongation and Shrinkage (%)  0% to 30% (±)
2.	Textile, Garment & Accessories	Appearance apparel and other textile products repeated after home laundering	In House Test Method No: GMS LT_IHTM_APP_006 BASED ON ISO 15487:2018	Grade:SA 1 to SA 5 Grade:SS 1 to SS 5 Grade:CR 1 to CR5 Grade:1 to 5
3.	Textile, Garment & Accessories	Print /Motif Durability	In house test no: GMS_LT_IHTM_PD_007	Grade:1 to 5
4.	Textile, Garment & Accessories	Spirality/Skewing of Fabrics & Garments	ISO16322-2:2005/Cor1:2007 ISO16322-3:2005	- 30.0% to+ 30.0%
5.	Textile, Garment & Accessories	Stretch and Recovery/Tension and Elongation of elastic fabrics	BS EN ISO 20932-1:2020	1 to 500%
6.	Textile, Garment & Accessories	Determination of Single thread strength	ISO 2062:2009 BS EN ISO 2062:2009	0.5 to 3000 N
7.	Textile, Garment & Accessories	Yarn Twist per Inch	ISO 2061:2015	1 to 100 TPI
8.	Textile, Garment & Accessories	Yarn Count	ISO 2060:1994	1 to 200' S
9.	Textile, Garment & Accessories	Pilling Resistance(ICI Pilling Box Method)	ISO 12945-1:2020 BS EN ISO 12945-1:2020	Grade: 1 to 5
10.	Textile, Garment & Accessories	Pilling Resistance(Martindale Method)	ISO 12945-2:2020 BS EN ISO 12945-2:2020	Grade: 1 to 5
11.	Textile, Garment & Accessories	Snagging Resistance	BS 8479:2008	Grade: 1 to 5
12.	Textile, Garment & Accessories	Abrasion Resistance (Martindale Method)	BS EN ISO 12947-1:1999 BS EN ISO 12947-2:2016 BS EN ISO 12947-3:1999 BS EN ISO 12947-4:1999	Up to required cycle



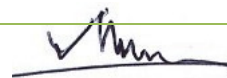
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13.	Textile, Garment & Accessories	Bursting Strength (Pneumatic & Accessories)	ISO 13938-2:2019 BS EN ISO 13938-2:2019	Up to 750 kPa
14.	Textile, Garment & Accessories	Fabric Weight	ISO 3801:1977 BS EN 12127:1998	100 cm <sup>2</sup>
15.	Textile, Garment & Accessories	Fiber Composition	ISO 1833-2:2020 ISO 1833-5:2006 ISO 1833-11:2017 ISO 1833-20:2018 AATCC 20:2018 AATCC 20A:2020 ISO 1833-1:2020 REGULATION(EU) NO 1007/2011	Up to 100%
<b>Field: Chemical Testing</b>				
16.	Textile, Garment & Accessories	Color Fastness to Washing	ISO 105 C06:2010 BS EN ISO 105 C06:2010 DIN EN ISO 105 C06:2010 ISO 105 C08:2010 BS EN ISO 105 C08:2010 ISO 105 C10:2006 BS EN ISO 105 C10:2007 AATCC 61:2013	Grade: 1 to 5
17.	Textile, Garment & Accessories	Color Fastness to Rubbing/ Crocking	ISO 105X12:2016 BS EN ISO 105X12:2016 DIN EN ISO 105X12:2016 AATCC 8:2016	Grade: 1 to 5
18.	Textile, Garment & Accessories	Color Fastness to Perspiration	ISO 105:E04:2013 BS EN ISO 105 E04:2013 DIN EN ISO 105 E04:2013 AATCC 15:2013	Grade: 1 to 5
19.	Textile, Garment & Accessories	Color Fastness to Water	ISO 105 E01:2013 BS EN ISO 105:E01:2013 DIN EN ISO 105:E01:2013 AATCC 107:2013	Grade: 1 to 5
20.	Textile, Garment & Accessories	Colour Fastness to Saliva	DIN 53160-1:2010 GB/T18886:2019	Grade:1 to 5



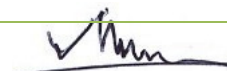
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
21.	Textile, Garment & Accessories	Colour Fastness to Light	ISO 105 B02:2014 BS EN ISO 105 B02:2014 AATCC 16.3:2020	Rating:1 to 8 Rating:1 to 5
22.	Textile, Garment & Accessories	Color Fastness to Light of Textiles wetted with artificial Perspiration	ISO 105 B07:2009 BS EN ISO 105: B07:2009	Rating:1 to 8 Rating:1 to 5
23.	Textile, Garment & Accessories	Color fastness to Dye Transfer in Storage	AATCC 163:2013	Grade:1 to 5
24.	Textile, Garment & Accessories	Assessment of the potential to phenolic yellowing of materials	ISO 105×18:2007 BS EN ISO 105×18:2007	Grade:1 to 5
25.	Textile, Garment & Accessories	Determination of free and Hydrolyzed Formaldehyde	ISO 14184-1:2011 BS EN ISO 14184-1:2011 ISO 14184-2:2011 BS EN ISO 14184-2:2011	15 mg/kg - 3500mg/kg
26.	Textile, Garment & Accessories	PVC Identification	IN HOUSE TEST METHOD; NO: GMS_ LT_IHTM_PVC_001 BELISTEIN METHOD- (PRELIMINARY METHOD),FTIR METHOD BY SOLVENT EXTRACTION- CONFIRMATORY METHOD)	Qualitative
27.	Textile, Garment & Accessories	P <sup>H</sup> Value	ISO 3071:2020 BS EN ISO 3071:2020 AATCC 81:2016	1.0 to 14.0
28.	COC on Leather, Textile, Garment & Accessories	Determination of Chlorinated Organic Carriers <ul style="list-style-type: none"> <li>▪ 2-Chlorotoluene</li> <li>▪ 3-Chlorotoluene</li> <li>▪ 4-Chlorotoluene</li> <li>▪ 1,3-Dichlorobenzene</li> <li>▪ 1,4-Dichlorobenzene</li> <li>▪ 1,2-Dichlorobenzene</li> <li>▪ 2,4- Dichlorotoluene</li> <li>▪ 2,5- Dichlorotoluene</li> <li>▪ 2,6- Dichlorotoluene</li> <li>▪ 1,3,5-Trichlorobenzene</li> <li>▪ 2,3-Dichlorotoluene</li> </ul>	In House Test Method No: GMS_LT_IHTM_COC_003 (Based On DIN 54232:2010)	0.1 to100 mg/kg 0.1 mg/kg



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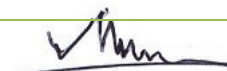
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		<ul style="list-style-type: none"> <li>▪ 3,4-Dichlorotoluenes</li> <li>▪ 1,2,4-Trichlorobenzene</li> <li>▪ 1,2,3-Trichlorobenzene</li> <li>▪ 2,4,5- Trichlorotoluene</li> <li>▪ 2,3,6-Trichlorotoluene</li> <li>▪ 1,2,3,5-Tetrachlorobenzene</li> <li>▪ 1,2,4,5-Tetrachlorobenzene</li> <li>▪ 1,2,3,4-Tetrachlorobenzene</li> <li>▪ Pentachlorobenzene</li> <li>▪ 2,3,4,6-Tetrachlorotoluene</li> <li>▪ 2,3,5,6-Tetrachlorotoluene</li> <li>▪ 2,3,4,5-Tetrachlorotoluene</li> <li>▪ 2,3,4,5,6-Pentachlorotoluene</li> <li>▪ Hexachlorobenzene</li> </ul>		
29.	Phthalate in Textile, Garment & Accessories	Determination of Phthalate Content	In House Test Method No: GMS_LT_IHTM-PHT-002 (Based On BS EN ISO 14389:2014)	0.005% to 25% 0.005% or,50 mg/kg
		<ul style="list-style-type: none"> <li>▪ di-n-butyl Phthalate (DBP)</li> <li>▪ butyl benzyl Butyl Phthalate (BBP)</li> <li>▪ di (ethylhexyl ) Phthalate (DEHP)</li> <li>▪ di-n-octyl Phthalate (DnOP)</li> <li>▪ di-isononyl Phthalate (DINP)</li> <li>▪ di-iso-dekyl Phthalate (DIDP)</li> <li>▪ di-iso-butyl Phthalate (DIBP)</li> <li>▪ dimethoxyethyl Phthalate (DMEP)</li> <li>▪ di-iso-pentyl Phthalate (DIPP)</li> <li>▪ Diethyl Phthalate (DEP)</li> <li>▪ di-n-hexyl Phthalate (DnHP)</li> <li>▪ Diundecyl Phthalate (DUP)</li> </ul>		



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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
		<ul style="list-style-type: none"> <li>▪ Dicyclohexyl Phthalate(DCHP)</li> <li>▪ Di-iso-hexyle Phthalate(DIHP)</li> <li>▪ Di methyl Phthalate(DMP)</li> <li>▪ Di-n-propyle Phthalate(DnPrP)</li> <li>▪ Butyl octyl Phthalate(BOP)</li> <li>▪ n-pentyl-isopentyl Phthalate(PiPP)</li> <li>▪ Di-n-pentyl phthalate(DnPP)</li> </ul>		
30.	Textile, Garment & Accessories	Determination of Chlorinated Phenol <ul style="list-style-type: none"> <li>▪ Pentachlorophenol</li> <li>▪ 2,3,4,5-tetrachlorophenol</li> <li>▪ 2,3,4,6-tetrachlorophenol</li> <li>▪ 2,3,5,6-tetrachlorophenol</li> <li>▪ 2,3,4-trichlorophenol</li> <li>▪ 2,3,5-trichlorophenol</li> <li>▪ 2,3,6-trichlorophenol</li> <li>▪ 2,4,5-trichlorophenol</li> <li>▪ 2,4,6-trichlorophenol</li> <li>▪ 3,4,5-trichlorophenol</li> <li>▪ O-Phenyl Phenol</li> </ul>	In House Test Method No: GMS/LT/IHTM-CP-005 (Based On ISO 17070:2015/ LFGB § 64 BVL B 82.02.8:2001/ DIN 53313:1993)	Quantitative  0.05 mg/kg to 1000 mg/kg
31.	Textile, Garment & Accessories	Nickel Spot Test	In House Test Method No: GMS_LT_IHTM_NICKEL_SPOT_004	Qualitative

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