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**Accreditation No: LAB 016**

**Awarded to**

**SGS Consumer & Retail Services (CRS) Laboratory  
SGS Pakistan (Pvt) Ltd. Lahore, Pakistan.**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **25-11-2008** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017**.

The accreditation requires regular surveillance, and is valid until **24-06-2024**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

**PAKISTAN NATIONAL ACCREDITATION COUNCIL**

27-02-2023

Date

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Director General

|                                                                                   |                                   |                                                                                         |
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### Testing Laboratory.

Accreditation Scope of SGS Pakistan (Pvt) Ltd. Lahore, Pakistan.

**Permanent laboratory premises** Plot # 7, Din Muhammad Tow (Opposite Police Training Institute) 19-Km off Multan Road, Chuhang, Lahore, Pakistan.

| Materials/Products tested                      | Testing field (e.g. environmental testing or mechanical testing) | Types of test/ Properties measured | Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference |
|------------------------------------------------|------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| All textile Material/ products /Physical tests | Physical                                                         | Fabric weight per unit area        | ASTM D3776/D3776M – 2020 )ISO 3801:1977                                             |
|                                                | Physical                                                         | Ends & picks (woven fabric)        | ASTM D3775 – 17/ ISO-7211/2:1984                                                    |
|                                                | Physical                                                         | Stitch density (knitted fabric)    | ASTM D3887 – 96 (Reapproved 2008)/BS 5441: 2019                                     |
|                                                | Physical                                                         | Spray rating test                  | AATCC 22:2017 / ISO 4920:2013                                                       |
|                                                | Physical                                                         | Tearing strength (Elmendorf)       | ASTM D 1424:09(re-approved 2019) / ISO 13937-1:2000                                 |

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|------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| All textile Material/ products /Physical tests | Physical                                                                | Pilling resistance                                             | ASTM D3512/D3512M – 16                                                                                                                   |
|                                                | Physical                                                                | Tensile strength                                               | ASTM D5034 – 2021/<br>ASTM D 5035:2011<br>(Reapproved 2019)/ BS EN<br>ISO 13934-1 2013/ BS EN<br>ISO 13934-2 2014/ AS -<br>2001.2.3-1998 |
|                                                | Physical                                                                | Abrasion                                                       | BS EN ISO 12947-2: 2017                                                                                                                  |
|                                                | Physical                                                                | Tear strength (Single rip)                                     | ASTM D 2261-2017/ BS EN<br>ISO 13937-2/3:2000/ GB/T<br>3917.2.2009 /AS -2001.2.8-<br>2001                                                |
|                                                | Physical                                                                | Tear strength (trapezoid)                                      | ASTM D 5587:2019                                                                                                                         |
|                                                | Physical                                                                | Pilling resistance-<br>sample visual<br>assessment is required | BS EN ISO 12945-2:2020                                                                                                                   |
|                                                | Physical                                                                | Pilling resistance-<br>sample visual<br>assessment is required | BS 5811:1986 /BS EN ISO<br>12945.1:2001<br>ISO 12945-1 2020                                                                              |

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|                                                         | Physical | Seam slippage                                                        | ISO 13936-1(2004)<br>BS EN ISO 13936-1/ 2 :2004<br>ASTM 434:1995/ ASTM<br>1683-2018/ AS -2001.2.21-<br>1989 |
|                                                         | Physical | Bursting strength                                                    | ASTM D 3787:2020                                                                                            |
|                                                         | Physical | Bursting strength                                                    | BS EN ISO 13938-2:2019                                                                                      |
|                                                         | Physical | Seam strength                                                        | ISO 13935 1/2:2014                                                                                          |
|                                                         | Physical | Determination of<br>Extension and Modulus                            | BS EN 14704 -1 :2005/ISO<br>20932-1 2020                                                                    |
| All textile<br>Material/<br>products<br>/Physical tests | Physical | Slide Fastness (Zips)                                                | BS 3084:2006                                                                                                |
|                                                         | Physical | Stretch Properties of<br>Fabrics Woven/Knitted<br>from Stretch Yarns | ASTM D3107 – 07<br>(Reapproved 2019)/ ASTM<br>D2594:2020                                                    |
|                                                         | Physical | Fabric Width                                                         | ASTM D3774 – 96<br>(Reapproved 2018)                                                                        |

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|                                                | Physical | Fabric /Garment shrinkage                | AATCC 135:2018/<br>AATCC 150:2018<br>ISO 3759 2011<br>ISO5077-2007<br>ISO 6330:2012/<br>AS -2001.5.4-2005                                  |
|                                                | Physical | Appearance after wash                    | AATCC 124:2018                                                                                                                             |
|                                                | Physical | Skewness after wash/Spirality After wash | AATCC 179:2019/ISO<br><br>16322-2&3 :2005                                                                                                  |
| All textile Material/ products /Physical tests | Physical | Color fastness to washing                | ATCC 61:2013,<br>BS EN ISO 105:CO6 :2010<br>ISO 105:CO8:2010-<br>CO9:2001Amd2003-C10-<br>2006/ GB/T 3921.1 to 5-1997<br>AS- 2001.4.15-2006 |
|                                                | Physical | Color fastness to perspiration           | AATCC 15: 2019 /BS EN<br>ISO 105 -EO4:2013/ GB/T<br>3922-1995/AS-2001.4<br>E04.2005                                                        |
|                                                | Physical | Color fastness to rubbing                | AATCC 8:2016/BS EN ISO<br>105X12:2016/ ISO<br>105X12:2016/ GB/T 3920-<br>2008 /AS-2001.4.3-1995                                            |

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|  | Physical | Color fastness to water                    | AATCC 107:2013 /BS EN<br>ISO 105 EO1:2013/ GB/T<br>1713-1997/AS-2001.4<br>E01.2001 |
|  | Physical | Color fastness to<br>sea water             | AATCC 106:2013 / BS EN<br><br>ISO 105 EO2:2013                                     |
|  | Physical | Color fastness to dry<br>cleaning          | BS EN ISO 105 DO1:2010/<br>GB/T 5711-1997                                          |
|  | Physical | Soil release oily stain<br>release method. | <i>AATCC 130:2018</i>                                                              |
|  | Physical | Phenolic yellowing                         | Courtlaulds research,<br>ISO 105 X18:2007                                          |
|  | Physical | Color fastness to<br>chlorinated water     | BS EN ISO 105 EO3 :2010                                                            |

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|                                                         | Physical | Print Durability                                                     | IHTM – 1, BHS 12-A                                          |
| All textile<br>Material/<br>products<br>/Physical tests | Physical | Smoothness of Seams in<br>Fabrics.                                   | AATCC 88 B: 2018                                            |
|                                                         | Physical |                                                                      |                                                             |
|                                                         | Physical | Retention of Creases in<br>Fabrics after Repeated<br>Home Laundering | AATCC 88 C :2018                                            |
|                                                         | Physical | Color fastness to saliva                                             | DIN 53160-1: 2010,<br>DIN 53160 -2: 2010,<br>GB/T 1886-2002 |
|                                                         | Physical | Colorfastness to Hot<br>pressing                                     | ISO 105 X11:1994/BS EN<br>ISO X11 :1996                     |
|                                                         | Physical | Flammability                                                         | 16CFR 1610:2008<br>ASTM D 1230:2020 (re –<br>approved 2016) |
|                                                         | Physical | Uppers, lining and in<br>socks. Abrasion<br>resistance               | BS EN 13520:2002/ISO<br>17704                               |

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| Materials/Products tested        | Testing field (e.g. environmental testing or mechanical testing) | Types of test/ Properties measured | Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference |
|----------------------------------|------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| <b>TEXTILES<br/>/ACCESSORIES</b> | Physical                                                         | Determination of Sharp point       | <i>ASTM F 963 / 16 CFR 1500.48/ EN 71-1: 2014)</i>                                  |
|                                  | Physical                                                         | Determination of Sharp Edge        | <i>ASTM F 963 / 16 CFR 1500.49/ EN 71-1 : 2014)</i>                                 |
|                                  | Physical                                                         | Determination of Torque            | <i>ASTM F 963 / 16 CFR 1500.49/ EN 71-1 : 2014)</i>                                 |
|                                  | Physical                                                         | Determination of small parts       | <i>ASTM F 963 / 16 CFR 1501/ EN 71-1 :2014)</i>                                     |
|                                  | Physical                                                         | Tension test                       | <i>16CFR 1500.51 /52/53</i>                                                         |

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|--------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| All Textile Materials / Products/ Chemical tests | Chemical                                                                | Fiber Analysis                            | AATCC 20A 2020 /ISO 1833 :2006 /In accordance with 73/44/EEC and 96/73/EC as amended by 2006/2/EC                                               |
|                                                  | Chemical                                                                | pH Value of aqueous extract               | AATCC 81 :2021 ISO 3071 :2020/ GB/T 7573, GB/T 2724)                                                                                            |
|                                                  | Chemical                                                                | Azo Amines                                | ISO 14362-1/2:2017/ GB/T 17592, GB/T 23344)                                                                                                     |
|                                                  | Chemical                                                                | Formaldehyde Content                      | ISO 14184-1/2:2011 / AATCC 112 :2020, JPLAW 112 / JISL 1041 :2011/ GB/T 2912                                                                    |
|                                                  | Chemical                                                                | Lead & Cadmium Content                    | ASTM E 1613-04 ASTM E 1645-01 (2007) CPSC-CH-E-1001- 08 CPSC-CH-E- 1002-08 CPSC-CH-E- 1003-09 16<br><br>CFR 1303-1<br><br>US Public law 110-314 |

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|---------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------|
| All Textile Materials /Leather Products/ Chemical tests | Chemical                                                                | pH                                        | ISO 4045 :2008                                                                             |
|                                                         | Chemical                                                                | Phthalates Contents                       | CPSC—CH-1001.09.3<br>ISO 14389:2014                                                        |
|                                                         | Chemical                                                                | Formaldehyde Content                      | ISO/ 17226-2 /:2018 DIN 53315 (1996-03)                                                    |
|                                                         | Chemical                                                                | Cr VI Content                             | ISO 17075:2017<br>BSEN 21420:2020<br>DIN 53314 (1996-04)<br>/CEN/TS 14495 :2003            |
|                                                         | Chemical                                                                | Azo Amines                                | ISO 17234-1:2015/ ISO 17234-2:2011                                                         |

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| All Types of Gloves              | Physical                                                                | Abrasion Resistance                       | EN 388:2016<br>+A1 2018                                                                    |
|                                  | Physical                                                                | Blade Cut Resistance                      | EN 388:2016<br>+A1 2018                                                                    |
|                                  | Physical                                                                | Tear Resistance                           | EN 388:2016<br>+A1 2018                                                                    |
|                                  | Physical                                                                | Puncture Resistance                       | EN 388:2016<br>+A1 2018                                                                    |
|                                  | Physical                                                                | Water Vapour absorption                   | EN ISO 21420 :2020/<br>Clause 5.3.1/6.3.1                                                  |
|                                  | Physical                                                                | Water Vapour Permeability / Transmission  | EN ISO 21420 :2020<br>Clause 5.3.2/6.4.2                                                   |
|                                  | Physical                                                                | Dexterity                                 | EN ISO 21420 :2020: Clause 5.1                                                             |

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|                      | Physical   | Size                                                   | EN ISO 21420 :2020: Clause 5.2                                                                                                  |
|                      | Chemical   | Cr VI                                                  | EN ISO 21420 :2020/ISO 17075-1                                                                                                  |
|                      | Chemical   | pH                                                     | EN ISO 21420 :2020/ISO 4045/ISO 3071                                                                                            |
| Leather and Footwear | Physical I | Tear Strength                                          | ISO 3377 1:2011- ISO 3377 - 2 2016 EN 13571:2002, STM -162. / ISO 17696:2004 BS EN 13751:2002 ASTM D 2212:2015 ASTM D 4704:2017 |
|                      | Physical   | Tensile strength/Elongation                            | ISO-3376 2020, STM-43/ ASTM D 2208 2016 ASTM D 2209 2015                                                                        |
|                      | Physical   | Distension of grain elastability-lastometer ball burst | STM-24, ISO 3379 :2015                                                                                                          |
|                      | Physical   | Adhesion of finish                                     | EN ISO 11644: 2009                                                                                                              |
|                      | Physical   | Vamp flex test resistance to crease and cracking       | SATRA TM 25.                                                                                                                    |

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|                      | Physical   | Flexing Resistance (Bally)         | ISO 5402-1:2011/ ISO 17694:2016                                       |
|                      | Physical   | ROSS FLEX                          | BS 5131 2.1 1991; STM 60; EN 12769 :1980:04                           |
| Leather and Footwear | Physical I | Resistance of foot ware to flexing | STM 92.                                                               |
|                      | Physical   | Flexing Resistance of outsole      | STM 133;                                                              |
|                      | Physical   | Abrasion Resistance of Leather     | ISO-20344 :2011, ASTM-D4966 :2016, STM 31                             |
|                      | Physical   | Color Fastness to Rubbing          | EN ISO 17700: 2019, EN ISO 11640 :2018, STM 167, ASTM D 5053:03(2015) |
|                      | Physical   | Water and perspiration fastness    | STM 335, BS EN ISO 1164 :2012, IUF 426                                |
|                      | Physical   | Density                            | ISO 2781 2018                                                         |

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| Leather and Footwear | Physical I | Dry cleaning                             | ISO 11643:2009<br>BS EN ISO 11643:2009<br>EN ISO 11643:2009 |
|                      | Physical   | Washing                                  | ISO 15702, ISO 15703 :1999                                  |
|                      | Physical   | Shrinkage temperature                    | ISO 3380 2015 & IUP 16                                      |
|                      | Physical   | Thickness                                | IUP 4;<br>ISO 2589:2016                                     |
|                      | Physical   | Abrasion of outsole                      | ISO 4649 2017/ STM 174/<br>BS EN 12770:2000                 |
|                      | Physical   | Colorfastness to PVC Migration           | ISO 15701:1998                                              |
|                      | Physical   | Colorfastness to Water spotting          | ISO 15700:1999                                              |
|                      | Physical   | Water Vapour permeability and Absorption | ISO 14268:2012                                              |

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| Safety Shoes                     | Physical                                                                 | Height of upper                                | ISO 20344:2021 clause 6.2                                                                   |
| Safety Shoes                     | Physical                                                                 | Seat region                                    | EN20345:2021 clause 5.2.3                                                                   |
| Safety Shoes                     | Physical                                                                 | Construction                                   | EN20345:2021 Clause 5.3.1.1                                                                 |
| Safety Shoes                     | Physical                                                                 | Upper/outsole bond strength                    | ISO 20344:2021 Clause 5.2                                                                   |
| Upper                            | Physical                                                                 | Tear strength                                  | ISO 20344:2021 Clause 6.3                                                                   |
| Upper                            | Physical                                                                 | Tensile properties                             | ISO 20344:2021 Clause 6.4.1                                                                 |
| Upper                            | Physical                                                                 | Water Vapour permeability and coefficient      | ISO 20344:2021 Clause 6.6 & 6.8                                                             |
| Outsole                          | Physical                                                                 | Construction / Design / Cleat Hight            | EN20345:2011 Clause 5.8.1                                                                   |
| Outsole                          | Physical                                                                 | Abrasion resistance                            | ISO 20344:2021 Clause 8.3                                                                   |
| Insole/In sock/Lining            | Physical                                                                 | Abrasion                                       | ISO 20344:2021 Clause 7.3 & 6.12                                                            |
| Outsole                          | Physical                                                                 | Cleated outsole                                | EN20345:2021 Clause 5.8.1                                                                   |
| Outsole                          | Physical                                                                 | Outsole Thickness                              | ISO 20344:2021 Clause 8.1.2                                                                 |

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