# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** VIRIDIAN TESTING LABORATORIES LLP, 8/3176-A5, JOTHIPURAM, 2ND STREET, PN ROAD, PANDIYAN NAGAR, TIRUPUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-10000 **Page No** 1 of 8

**Validity** 18/10/2021 to 17/10/2023 **Last Amended on** 29/11/2021

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| Permanent Facility | | | | |
| 1 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Gown, Drapes & Coverall | Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System | ASTM F1671/F1671M |
| 2 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Gown, Drapes & Coverall | Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood | ASTM F1670/F1670M |
| 3 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Gown, Drapes & Coverall | Resistance of protective clothing materials to penetration by blood and body fluids - Test method using synthetic blood | IS 16546 |
| 4 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Gown, Drapes & Coverall | Resistance of protective clothing materials to penetration by blood and body fluids - Test method using synthetic blood | ISO 16603 |
| 5 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Gown, Drapes & Coverall | Resistance of protective clothing materials to penetration by blood-borne pathogens - Test method using Phi-X 174 bacteriophage | ISO 16604 |
| 6 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Gown, Drapes & Coverall | Resistance of protective clothing materials to penetration by blood-borne pathogens – Test method using Phi-X174 bacteriophage | IS 16545 |
| 7 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Gown, Drapes & Coverall | Resistance to Dry Microbial Penetration | IS 16548 |
| 8 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Gown, Drapes & Coverall | Resistance to dry microbial penetration | ISO 22612 |
| 9 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Gown, Drapes & Coverall | Resistance to Wet Bacterial Penetration | IS 16549 |

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| 10 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Gown, Drapes & Coverall | Resistance to wet bacterial penetration | ISO 22610 |
| 11 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Surgical Face mask, Gown, Drapes & Coverall | Bacterial Filtration Efficiency | ASTM F 2101 |
| 12 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Surgical Face mask, Gown, Drapes & Coverall | Bacterial Filtration Efficiency | EN 14683 (Annex-B)+AC |
| 13 | BIOLOGICAL- BIOLOGICAL TESTS ON OTHER MISCELLANEOUS TEST ITEMS | Surgical Face mask, Gown, Drapes & Coverall | Bacterial Filtration Efficiency | IS 16288 |
| 14 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted & Woven fabric | Spirality after laundering - Part 2: Woven and knitted fabrics | IS/ISO 16322-2 |
| 15 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted & Woven Fabrics | Dimensional Changes of Fabrics after Home Laundering | AATCC 135 |
| 16 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted & woven Garments | Dimensional Changes of Garments after Home Laundering | AATCC 150 |
| 17 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabric & Garments | Dimensional Change in washing drying | BS EN ISO 5077:2018, BS EN ISO 3759 :2011 BS EN ISO 6330 |
| 18 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabric & Garments | Skewness Change in Fabric and Garment Twist Resulting from Automatic Home Laundering | AATCC 179 |
| 19 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Color fastness to domestic and commercial laundering | ISO 105 C06 |
| 20 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Color fastness to perspiration | BS EN ISO 105 E04 |
| 21 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Color fastness to rubbing | BS EN ISO 105 X12 |
| 22 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Color fastness to water | BS EN ISO 105 E01 |
| 23 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Colorfastness to Crocking: Crock meter Method | AATCC 8 |

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| 24 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Colorfastness to Laundering: Accelerated | AATCC 61 |
| 25 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Colorfastness to Perspiration | AATCC 15 |
| 26 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Colour fastness to Water | AATCC 107 |
| 27 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | pH of aqueous extract | ISO 3071 |
| 28 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | pH of the Water-Extract from Wet Processed Textiles | AATCC 81 |
| 29 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Surgical Face mask & Medical textile & Protective Textiles | Flammability of Clothing Textiles (Step 1—Testing in the original state) | 16 CFR 1610 |
| 30 | CHEMICAL- TEXTILE (WOVEN & NON WOVEN) | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Surgical face mask &Medical textile & Protective Textiles | Flammability of Apparel Textiles (As Received) | ASTM D 1230 |
| 31 | MECHANICAL- TEXTILE MATERIALS | Fabric (Knitted, Woven and Non-woven) &Medical Textiles & Protective Textiles | Water Resistance: Hydro static Pressure Test | AATCC 127 (Option 2) |
| 32 | MECHANICAL- TEXTILE MATERIALS | Fabric (Knitted and Woven) | Thickness of Textile Materials | ASTM D1777 (Option 1) |
| 33 | MECHANICAL- TEXTILE MATERIALS | Fabric (Knitted, Woven and Non-woven) & Protective Textiles | Resistance to water penetration - Hydro static pressure test | ISO 811 |
| 34 | MECHANICAL- TEXTILE MATERIALS | Fabric (Knitted, Woven and Non-woven) & Protective Textiles | Resistance to water penetration - Impact penetration test | ISO 18695 (Type 1) |
| 35 | MECHANICAL- TEXTILE MATERIALS | Fabric (Knitted, Woven and Non-woven)Protective Textiles | Water Resistance: Impact Penetration Test | AATCC 42 (Type 1) |
| 36 | MECHANICAL- TEXTILE MATERIALS | Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Tensile Strength (Maximum Force) - Part 2: GRAB METHOD | IS 1969-2 |
| 37 | MECHANICAL- TEXTILE MATERIALS | Fabric (Woven and Non-woven) & Medical Textiles & Protective Textiles | Maximum force to seam rupture using the grab method | ISO 13935-2 |
| 38 | MECHANICAL- TEXTILE MATERIALS | Fabric (Woven and Non-woven) & Medical Textiles & Protective Textiles | Tensile Strength (maximum force) using the grab method | ISO 13934-2 |
| 39 | MECHANICAL- TEXTILE MATERIALS | Fabric (Woven and Non-woven) & Medical Textiles & Protective Textiles | Tensile Strength (Maximum force) using the strip method | ISO 13934-1 |
| 40 | MECHANICAL- TEXTILE MATERIALS | Fabric (Woven and Non-woven) &Medical Textiles & Protective Textiles | Breaking Force of Textile Fabrics (Strip Method) | ASTM D5035 |
| 41 | MECHANICAL- TEXTILE MATERIALS | Fabric (Woven and Non-woven) &Medical Textiles & Protective Textiles | Breaking Strength of Textile Fabrics (Grab Test) | ASTM D5034 |

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| 42 | MECHANICAL- TEXTILE MATERIALS | Fabric (Woven and Non-woven) &Medical Textiles & Protective Textiles | Tensile Strength (Maximum Force) - Part 1: Strip Method | IS 1969-1 |
| 43 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Woven Fabric | Mass Per Unit Area (Weight) of Fabric | ASTM D3776/D3776M (Option C) |
| 44 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Woven Fabric | Mass per unit area using small samples | BS EN 12127 (Clause 8.3) |
| 45 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Woven Fabric | Pilling Resistance of Textile Fabrics using Random Tumble Pilling Tester | ASTM D3512/D3512M |
| 46 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Woven Fabric | Mass per Unit Area of Fabrics | IS 1964 (Method A) |
| 47 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Abrasion Resistance of fabrics by the Martindale method - Part 2: specimen breakdown | DIN EN ISO 12947-2 |
| 48 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Abrasion Resistance of Textile Fabrics (Martindale Abrasion Tester Method) | ASTM D4966 |
| 49 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Bursting Strength of fabric - Part 1: Hydraulic Method | IS 1966-1 |
| 50 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Bursting Strength of fabrics - Part 1: Hydraulic method | ISO 13938-1 |
| 51 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Bursting Strength using Diaphragm Bursting Strength Tester | ASTM D3786/D3786M |
| 52 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine) | ASTM D2261 |
| 53 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Fabric (woven & Non Woven) & Medical textile & Protective Textiles | Tearing Strength of Fabrics by Trapezoid Procedure | ASTM D5587 |
| 54 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Woven Fabric | Mass per unit area | ISO 3801 (Method 5) |
| 55 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Woven Fabric | Thickness of textiles and textile products | ISO 5084 |
| 56 | MECHANICAL- TEXTILE MATERIALS | Knitted Fabrics & garments & Woven Fabric & Medical textile & Protective Textiles | Pilling Resistance of Textile Fabrics: Martindale Tester | ASTM D4970/D4970M |
| 57 | MECHANICAL- TEXTILE MATERIALS | Medical Face mask | Breathability (Differential Pressure) | EN 14683 (Annex-C)+AC |

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| 58 | MECHANICAL- TEXTILE MATERIALS | Medical Face mask | Design | EN 14683 (Clause.5.1.1)+AC |
| 59 | MECHANICAL- TEXTILE MATERIALS | Medical Face mask | Initial Efficiency of Materials Used in Medical Face Masks to Penetration by Particulates Using Latex Spheres | ASTM F2299/F2299M |
| 60 | MECHANICAL- TEXTILE MATERIALS | Medical Face mask | Material & Construction | EN 14683 (Clause no.5.1.2)+AC |
| 61 | MECHANICAL- TEXTILE MATERIALS | Medical Face mask | Resistance against penetration by synthetic blood (fixed volume, horizontally projected) - Medical face masks. | ISO 22609 |
| 62 | MECHANICAL- TEXTILE MATERIALS | Medical face mask | Resistance of Medical Face Masks to Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume at a Known Velocity) | ASTM F1862/F1862M |
| 63 | MECHANICAL- TEXTILE MATERIALS | Medical Face mask | Sub-micron Particulate Filtration Efficiency | IS 16289 (Annex E) |
| 64 | MECHANICAL- TEXTILE MATERIALS | Non Woven Fabric & Medical Textiles & Protective Textiles | Tensile strength | DIN EN 29073-3 |
| 65 | MECHANICAL- TEXTILE MATERIALS | Non Woven Fabric & Medical Textiles & Protective Textiles | Tensile strength | IS 15891-3 |
| 66 | MECHANICAL- TEXTILE MATERIALS | Non Woven Fabric & Medical Textiles & Protective Textiles | Tensile strength | ISO 9073-3 |
| 67 | MECHANICAL- TEXTILE MATERIALS | Non woven Fabrics | Mass per unit area | IS 15891 (Part-1) |
| 68 | MECHANICAL- TEXTILE MATERIALS | Non woven fabrics & Medical Textiles & Protective Textiles | Tear resistance by the trapezoid procedure | ISO 9073-4 |
| 69 | MECHANICAL- TEXTILE MATERIALS | Non-woven Fabrics | Mass per unit area | ISO 9073-1 |
| 70 | MECHANICAL- TEXTILE MATERIALS | Non-woven fabrics | Thickness of Non woven Fabrics | ASTM D5729 |
| 71 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Air Flow resistance | ASTM F 3502 (Clause 8.2) |
| 72 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | De-mountable parts | IS 9473 (Clause 5.13 & A-11) |
| 73 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Fit testing Using Ambient Aerosol Condensation Nuclei Counter | 29 CFR 1610.134 section C- 3 |

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| 74 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Particulate Filter efficiency Level for N100 | NIOSH Procedure- TEB-APR-STP-0057 |
| 75 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Particulate Filter efficiency Level for N95 | NIOSH Procedure- TEB-APR-STP-0059 |
| 76 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Particulate Filter efficiency Level for N99 | NIOSH Procedure- TEB-APR-STP-0058 |
| 77 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Respiratory protective devices - Part 7: Determination of particle filter penetration | BS EN 13274-7 |
| 78 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Sub-Micron Particulate Filtration Efficiency | ASTM F 3502 (Clause 8.1) |
| 79 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Breathing Resistance | EN 149 (Clause 7.16 & 8.9)+A1 |
| 80 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Breathing Resistance | IS 9473 (Clause 5.11& A-8) |
| 81 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Carbon dioxide content of the inhalation air | EN 149 (Clause 7.12 & 8.7)+A1 |
| 82 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Carbon dioxide content of the inhalation air | IS 9473 (Clause 5.7 & A-6) |
| 83 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Cleaning and disinfecting (For Reusable Respirator) | EN 149 (Clause 7.6 , 8.4 ,8.5 , 7.9.2 & 8.11)+A1 |
| 84 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Cleaning and disinfecting (For Reusable Respirator) | IS 9473 (Clause 5.2) |
| 85 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Clogging Test using Dolomite Dust (For Reusable respirator) | IS 9473 (Clause 5.12, A-8 & A-9) |
| 86 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Clogging test using Dolomite Dust(For Reusable Respirator ) | EN 149 (Clause 7.17, 7.9.2, 8.9 , 8.10 & 8.11)+A1 |
| 87 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Compatibility with skin | EN 149 (Clause 7.10 , 8.4 & 8.5)+A1 |
| 88 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Compatibility with skin | IS 9473 (Clause 5.5) |
| 89 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | De-mountable parts | EN 149 (Clause 7.18 & 8.2)+A1 |
| 90 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Exhalation resistance test | NIOSH Procedure- TEB-APR-STP-0003 |
| 91 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Exhalation valve | EN 149 (Clause 7.15, 8.2, 8.8, 8.3.4 & 8.9.1)+A1 |

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| 92 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Field of vision | EN 149 (Clause 7.14 & 8.4)+A1 |
| 93 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Field of vision | IS 9473 (Clause 5.9, A-2 & A-8) |
| 94 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Finish of parts | EN 149 (Clause 7.8 & 8.2)+A1 |
| 95 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Flammability | EN 149 (Clause 7.11 & 8.6)+A1 |
| 96 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Flammability | IS 9473 (Clause 5.6 & A-5) |
| 97 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Head Hardness | EN 149 (Clause 7.13, 8.4 & 8.5)+A1 |
| 98 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Head Hardness | IS 9473 (Clause 5.8, A-2 & A-3) |
| 99 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Inhalation and Exhalation valve | IS 9473 (Clause 5.10, A-1.2,A-3 & A-7) |
| 100 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Inhalation resistance test | NIOSH Procedure- TEB-APR-STP-0007 |
| 101 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Material | EN 149 (Clause 7.5 & 8.2, 8.31 & 8.3.2)+A1 |
| 102 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Material (Visual Inspection) | IS 9473 (Clause 5.1, A-1, A-1.1 & A-1.2) |
| 103 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Packaging | EN 149 (Clause 7.4 & 8.2)+A1 |
| 104 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Penetration of Filter material | EN 149 (Clause 7.9.2, 8.11, 8.3.1, 8.3.2 & 8.3.3)+A1 |
| 105 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Penetration of Filter material | IS 9473 (Clause 5.4.2 & A-1.1, A-1.2 & A-1.3) |
| 106 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Practical Performance | EN 149 (Clause 7.7 & 8.4)+A1 |
| 107 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Practical Performance | IS 9473 (Clause 5.3 & A-2) |
| 108 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Total Inward Leakage | EN 149 (Clause 7.9.1 & 8.5)+A1 |
| 109 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Total Inward Leakage | IS 9473 (Clause 5.4.1 & A-3) |
| 110 | MECHANICAL- TEXTILE MATERIALS | Respiratory protective devices | Visual inspection | EN 149 (Clause 7.3 & 8.2)+A1 |

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| 111 | MECHANICAL- TEXTILE MATERIALS | Surgical Face mask | Breathability (Differential Pressure) | IS 16289 (Annex-C) |
| 112 | MECHANICAL- TEXTILE MATERIALS | Surgical Face mask | Design | IS 16289 (Clause . 4.1.2) |
| 113 | MECHANICAL- TEXTILE MATERIALS | Surgical Face mask | Marking | IS 16289 (Clause.5) |
| 114 | MECHANICAL- TEXTILE MATERIALS | Surgical Face mask | Material & Construction | IS 16289 (Clause .4.1.1) |
| 115 | MECHANICAL- TEXTILE MATERIALS | Surgical Face mask | Splash Resistance | IS 16289 (Annex D) |
| 116 | MECHANICAL- TEXTILE MATERIALS | Woven Fabrics & Medical Textiles & Protective Textiles | Failure in Sewn Seams of Woven Fabrics | ASTM D1683/D1683M |
| 117 | MECHANICAL- TEXTILE MATERIALS | Yarns | Linear Density of Yarn (Yarn Number) by the Skein Method | ASTM D1907/D1907M (Option 1) |