National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LAB, LIBERTY SHOES LIMITED, 17TH MILE STONE, G.T. ROAD, KARNAL, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather & Footwear	Determination of Chromium VI	ISO 17075-1
2	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Width of Flange	BS EN 12568 (Clause 4.2.2.2)
3	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Hydrolysis	ISO 20344 (Clause 8.5), ISO 20345 (Clause 5.8.5), ISO 20346 (Clause 5.8.5) ISO 20347 (Clause 5.8.5) IS 15298-1 (Clause8.5) IS 15298-2 (Clause 5.4.8), IS 15298-3 (Clause 5.4.8), IS 15298 -4 (Clause5.8.5)
4	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Abrasion Resistance of Insole	ISO 20344 (Clause 7.3) ISO 20345 (Clause 5.7.4.1) ISO 20346 (Clause 5.7.4.1) ISO 20347 (Clause 5.7.4.1) IS 15298-1(Clause7.3), IS 15298-2:(Clause 5.7.4.1), IS 15298-3 (Clause 5.7.4.1), IS 15298 -4(Clause 5.7.4.1)
5	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Ageing conditioning	ISO 20870
6	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Behaviour of toe caps Corrosion resistance of metallic toecaps	ISO 20344 (Clause 5.6), ISO 20345 (Clause 5.3.2.5.1), ISO 20346 (Clause 5.3.2.5) IS 15298-1 (Clause 5.6.1), IS 15298-2 (Clause 5.3.2.5.1) IS 15298-3 (Clause 5.3.2.5.1)
7	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Compression Resistance	ISO 20344-5.5, ISO 20345-5.3.2.4, ISO 20346-5.3.2.4, EN 12568(clause 5.2.3), IS 15298-1(clause 5.5) IS 15298-2 (clause 5.3.2.4) IS 15298-3 (clause 5.3.2.4)
8	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Construction of Insole: - Damage to Footwear on Removal of Insole	ISO 20345 (clause 5.3.1.1), ISO 20346 (clause 5.3.1.1), ISO 20347 (clause 5.3.1.1),IS 15298-1 (clause 5.3.1.1), IS 15298-2 (clause 5.3.1.1), IS 15298-3 (clause 5.3.1.1), IS 15298 -4 (clause 5.3.1.1)

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9	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Corrosion Resistance of Metallic Inserts	BS EN 12568 (Clause 6.3.2 & 7.3)
10	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Corrosion Resistance of Metallic Toe Caps	BS EN 12568 (Clause 4.3& 5.3)
11	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Design :- 1. Cleated & Non-Cleated Area of total Length of Sole	ISO 20344 (clause 8.1.1), ISO 20345 (clause 5.8.1.2)
12	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Determination of Density	ISO 2781
13	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Determination of Hardness Durometer	ISO 868, SATRA TM404
14	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Determination of energy absorption of the seat	ISO 20344 (Clause 5.14), ISO 20345 (Clause 6.2.4), ISO 20346-6.2.4, ISO 20347-6.2.4, IS 15298-1 (clause 5.14), IS 15298-2 (clause 6.2.4), IS 15298-3 (clause6.2.4) IS 15298 -4 (clause 6.2.4)
15	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Determination of outsole Thickness	ISO 20344 (clause 8.1), ISO 20345 (clause 5.8.1.1), ISO 20346 (clause 5.8.1.1), ISO 20347 (clause 5.8.1.1), IS 15298-1 (clause 8.1) IS 15298-2 (clause 5.8.1), IS 15298-3 (clause 5.8.1) IS 15298 -4 (clause 5.8.1)
16	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Determination of tear load - Single edge tear	ISO 20345 (clause 5.4.3)
17	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Determination of tear strength- Trouser, angle and crescent test pieces	ISO 20344 (clause 8.2) ISO 20345 (clause 5.8.2) IS 15298-1 (clause 6.3) IS 15298-2 (clause 5.6.1) IS 15298-3 (clause5.6.1) IS 15298 -4 (clause5.6.1) ISO 34-1
18	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Determination of Tensile strength and percentage extension	ISO 20344 (clause 6.4), ISO 20345 (clause 5.4.4), ISO 20346 (clause 5.4.4), ISO 20347 (clause 5.4.4) , IS 15298-1 (clause6.4), IS 15298-2 (clause 5.4.4), IS 15298-3 (clause 5.4.4), IS 15298 -4 (clause 5.4.4), ISO 17706

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19	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Dimension	ISO 20345-6.2.1.3, ISO 20346-6.2.1.3, ISO 20347-6.2.1.3, IS 15298-1 (clause5.8), IS 15298-2 (clause 6.2.1.3), IS 15298-3 (clause 6.2.1.3) IS 15298 -4 (clause 6.2.1.3)
20	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Electrical insulation	ISO 20345-6.2.2.3, ISO 20346 -6.2.2.3, ISO 20347-6.2.2.3, EN 50321, IS 15298-1 (clause 5.11), IS 15298-2 (clause 6.2.2.3), IS 15298-3 (clause 6.2.2.3), IS 5298 -4 (clause 5.2.2.3)
21	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Electrical Properties(antistatic)	ISO 20344, (clause 5.10) ISO 20345 (clause 6.2.2.2) ISO 20346 - 6.2.2.1 & 6.2.2.2, ISO 20347-6.2.2.1 & 6.2.2.2, IS 15298-1 (clause 5.10) IS 15298-2 (clause 6.2.2.2), IS 15298-3, (clause 6.2.2.2), IS 15298 -4 (clause 6.2.2.2)
22	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Finishing of Toe Caps Surface Marks : Burrs, Sharp Edges, Delamination	BS EN 12568 (Clause 4.2.1)
23	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	flexing resistance of upper materials – bally flexo meter	IS 15298-1 (clause 6.5) IS 15298-2 (clause 5.4.5), IS 15298-3 (clause 5.4.5), IS 15298 -4 (clause 5.4.5)
24	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	General /Finishing	IS 15298- 2 clause 5.3.2.1
25	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Heat insulation of sole complex	ISO 20344 (Clause 5.12), ISO 20345, (Clause6.2.3.1), ISO 20346 - 6.2.3.1, ISO 20347 - 6.2.3.1, IS 15298-1 (5.12), IS 15298-2 (6.2.3.1) IS 15298-3 (6.2.3.1) IS 15298 -4 (6.2.3.1)
26	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Height of Upper	ISO 20344 (clause 6.2), ISO 20345 (clause 5.2.2), ISO 20346 (clause 5.2.2), ISO 20347(clause 5.2.2), IS 15298-1 (clause 6.2), IS 15298-2 (clause 5.2.1), IS 15298-3 (clause 5.2.1), IS 15298 -4 (clause 5.2.1)

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27	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Impact resistance of safety footwear	ISO 20344 (clause 5.4), ISO 20345 (clause 5.3.2.3), ISO 20346 - 5.3.2.3, IS 15298-1(5.4), IS 15298-2 (5.3.2.3), IS 15298-3 (5.3.2.3), EN 12568-5.4 EN 12568-5.2.2
28	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Internal Length of Toe Cap	ISO 20344(clause 5.3), ISO 20345 (clause 5.3.2.2), ISO 20346, (clause 5.3.2.2), BS EN 12568 (clause 4.2.2.1 & 5.2.1), IS 15298-1, (clause 5.3), IS 15298-2 (clause 5.3.2.2), IS 15298-3 (clause 5.3.2.2)
29	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Nail Penetration Resistance	ISO 20344 (clause 5.8.2 & 5.8.3) ISO 20345 (clause 6.2.1.1.1), ISO 20346 (6.2.1.1.1, 6.2.1.1.2 & 6.2.1.5.2), ISO 20347(clause 6.2.1.1.1 & 6.2.1.5.2), EN 12568- 7.4 EN 12568-7.2.1, IS 15298-1 (clause 5.8), IS 15298-2 (clause 6.2.1)
30	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Outsole- Abrasion Resistance Rotating Drum method	ISO 20344-8.3, ISO 20345 - 5.8.3, ISO 20346 - 5.8.3, ISO 20347- 5.8.3, IS 15298-1 (clause 8.3) IS 15298-2 (clause5.8.3), IS 15298-3 (clause 5.8.3), IS 15298 -4 (clause 5.8.3)
31	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Outsole- Flexing Resistance	ISO 20344-8.4, ISO 20345, (Clause 5.8.4), ISO 20346-5.8.4, ISO 20347 - 5.8.4, IS 15298-1 (clause 8.4), IS 15298-2 (clause 5.8.4), IS 15298-3 (clause 5.8.4), IS 15298 -4 (clause 5.8.4)
32	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Resistance to fuel oil	ISO-20344 (Clause 8.6), ISO 20345, (Clause 6.4.2), ISO 20346 (clause 6.4.2)2014 ISO 20347 - clause6.4.2) 2012 IS 15298-1: 2015 (clause 8.6) IS 15298-2: 2016(clause 3.17), IS 15298-3 (clause3.17) IS 15298-4 (clause 3.16)

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33	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Resistance to hot contact	ISO-20344 (clause 8.7), ISO 20345 (clause 6.4.1), ISO 20346-6.4.1, ISO 20347-6.4.1, IS 15298-1 (clause 8.7), IS 15298-2 (clause 6.4.4) IS 15298-3 (clause 6.4.4), IS 15298 -4 (clause 6.4.4)
34	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Ross Flexing	SATRA TM 60, ISO 5423
35	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Seat region (design B, C, D, E)	ISO 20345 (clause 5.2.3), IS 15298-1 (clause 5.14), IS 15298-2 (clause 6.2.4), IS 15298-3 (clause 6.2.4), IS 15298 -4 (clause 6.2.4)
36	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Specific Ergonomic Features:- • Walking • Climbing • Kneel Crunch Down	ISO 20344 (clause 5.1), ISO 20345 (clause 5.3.4), ISO 20346 (clause 5.3.4), ISO 20347 (clause 5.3.3), IS 15298-1 (clause 5.1), IS 15298-2 (clause 5.3.4), IS 15298-3 (clause 5.3.4), IS 15298-4 (clause 5.3.3)
37	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Tear Strength for Tongue	ISO 20344, (clause 6.3), ISO 20345 (clause 5.6.1), ISO 20346 (clause 5.6.1), ISO 20347 (clause 5.6.1), IS 15298-1 (clause 6.3), IS 15298-2 (clause 5.4.3), IS 15298-3, (clause 5.4.3), IS 15298 -4 (clause 5.4.3)
38	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Tear Strength of lining	ISO 20344, (clause 6.3), ISO 20345 (clause 5.4.3), ISO 20346 (clause 5.4.3), ISO 20347 (clause 5.4.3), IS 15298-1 (clause 6.3), IS 15298-2 (clause 5.4.3), IS 15298-3 (clause 5.4.3), IS 15298 -4 (clause 5.4.3)
39	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Tear Strength of the upper	ISO 20344(Clause 6.3), ISO 20345(Clause 5.4.3), ISO 20346 (Clause 5.4.3), ISO 20347 : 2012(Clause 5.4.3) IS 15298-1: 2015 (clause 6.3) IS 15298-2 (Clause 5.4.3), IS 15298-3 (Clause 5.4.3) IS 15298 -4 (Clause 5.4.3)

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40	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Test Method For Upper Lining and Insocks Abrasion Resistance Martindale Method	ISO 20344 (clause 6.12), ISO 20345 (clause 5.5.2), ISO 20346 (clause 5.5.2), ISO 20347 (clause 5.5.2), BS EN 13520, IS 15298-1 (clause 6.12), IS 15298-2 (5.5.2), IS 15298-3 (5.5.2), IS 15298 -4 (5.5.2)
41	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Test Method for Upper to Out Sole and Interlayer Bond Strength	ISO 20344 (clause 5.2) ISO 20345 (clause 5.3.1.2&5.8.6), ISO 20346-(clause 5.3.1.2 & 5.8.6), ISO 20347-(clause 5.3.1.2 & 5.8.6), IS 15298-1 (clause 5.2), IS 15298-2 (clause 5.8.6), IS 15298-3 (clause 5.8.6), IS 15298 -4 (clause 5.8.6)
42	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Thickness of Insole / Insock	ISO 20344 (clause 7.1), ISO 20345 (clause 5.7.1), ISO 20346 (clause 5.7.1), ISO 20347 - clause 5.7.1, IS 15298-1 (clause7.1) IS 15298-2 (clause 5.7.1) IS 15298-3 (clause5.7.1) IS 15298 -4 (clause 5.7.1)
43	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Thickness of Leather	ISO 20344 (clause 6.1), ISO 20345 (clause 5.4.2), IS 15298-1(clause 6.1), IS 15298-2 (clause 5.4.2), IS 15298-3 (clause 5.4.2,) IS 15298 -4 (clause 5.4.2)
44	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Toe Protection : Damage to Footwear on Removal of Toecap	ISO 20345 (clause 5.3.2.1), ISO 20346 (clause 5.3.2), IS 15298-1 (clause 5.17), IS 15298-2 (clause 5.3.2.1), IS 15298-3 (clause 5.3.2.1)
45	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Water absorption and desorption	ISO 20344 (clause 7.2), ISO 20345 (clause 5.7.3), ISO 20346 (clause5.7.3), ISO 20347(clause5.7.3), ISO 5404, IS 15298-1(clause7.2) IS 15298-2(clause 5.7.3) IS 15298-3 (clause 5.7.3) IS 15298 -4(clause 5.7.3)

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46	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Water penetration and absorption	ISO 20344, (clause 6.13), ISO 20345 (clause 6.3), ISO 20346 (clause 6.3), ISO 20347 (clause 6.3), IS 15298-1 (clause 6.13), IS 15298-2 (clause 6.3.1), IS 15298-3 (clause 6.3.1), IS 15298 -4 (clause 6.3.1)
47	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Water Vapour Absorption	ISO 20344 (Clause 6.7), ISO 20345 (Clause 5.4.6), ISO 20346 (Clause 5.4.6), ISO 20347 (Clause 5.4.6), IS 15298-1 (clause 6.7) IS 15298-2 (clause 5.4.6) IS 15298-3 (clause 5.4.6) IS 15298 -4 (clause 5.4.6)
48	MECHANICAL- LEATHER AND LEATHER PRODUCTS	Leather & footwear	Water Vapour Permeability - Uppers and Lining	ISO 20344 (clause 6.6), ISO 20345 (clause 5.4.6), ISO 20346 (clause 5.4.6), ISO 20347 (clause 5.4.6), IS 15298-1: 2015 (clause 6.6), IS 15298-2 (clause 5.4.6,5.5.3), IS 15298-3 (clause 5.4.6,5.5.3), IS 15298 -4 (clause 5.4.6, 5.5.3)