National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QC LAB, MAGEBA BRIDGE PRODUCTS PVT. LTD., J-49 & 50, HOWRAH INDUSTRIAL ESTATE, BALTIKURI, UNIT-3, KOLKATA, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8920 **Page No** 1 of 3

Validity 21/04/2022 to 20/04/2024 **Last Amended on** 22/04/2022

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	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings	Compression Stiffness	BSEN 1337-3 [Annex H: Level 2]
2	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings	Compression Stiffness	IRC 83 [(Part II) - Annexure C.3]
3	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings	Compression Test	BSEN 1337-3 (Annex H: Level 1)
4	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings	Compression Test	IRC 83 [(Part II) Cl. 7.9.1.1 (c)]
5	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings	Shear Modulus test	BSEN 1337-3 (Annex F)
6	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings	Shear Modulus test	IRC 83 (Part II - Annexure C.2)
7	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings	Shear Stiffness test	BS 5400 (Section 9.2 Appendix A)
8	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings	Short Duration Compression Test	AASHTO Sec.18 (clause 18.7.4.5.6)
9	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings, Elastomeric Bearing Pads	Compression Stiffness	AS 5100 (Part 4) [Appendix D3]
10	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings, Elastomeric Bearing Pads	Compression Stiffness	BS 5400 [(Section 9.2 Clause 7.2 (b) (ii)]
11	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings, Elastomeric Bearing Pads	Compression Strain at Max. Design Load	AASHTO M251-06 (Cl. 9.1)
12	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings, Elastomeric Bearing Pads	Compression Test	AS 5100 (Part 4 Appendix D2)
13	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings, Elastomeric Bearing Pads	Compression Test	ASTM D-4014-03 (Cl. 8.1.3)
14	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings, Elastomeric Bearing Pads	Shear Stiffness	AS 5100 (Part 4) [Appendix D4]"
15	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings, Elastomeric Bearing Pads	Compression Stiffness	ASTM D-4014-03 (Cl. 8.1.2)
16	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings, Elastomeric Bearing Pads	Compression Test	AASHTO M251-06 (Cl. 8.8.2)
17	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings, Elastomeric Bearing Pads	Compression Test	BS 5400 [Section 9.2 Clause 7.2 (b) (i)]
18	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings, Elastomeric Bearing Pads	Inclined Compression Test for Shear Modulus	AASHTO M251-06 (Annex A1)

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19	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings, Elastomeric Bearing Pads	Shear Modulus Test	AASHTO Sec. 18 (Clause 18.7.4.5.8)
20	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Laminated Elastomeric Bearings,Elastomeric Bearing Pads	Long Duration Compression Test	AASHTO Sec.18 (clause 18.7.4.5.7)
21	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Seismic Bearings (Structural Isolation,HDRB, LRB)	Capacity in Compression under zero horizontal displacement	BSEN 15129 (Clause 8.2.1.2.6)
22	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Seismic Bearings (Structural Isolation, HDRB, LRB, Pendulum, Sliding bearings)	Combined compression and shear	AASTHO GSSID - (Cl. 15.2.2, Cl. 17.2.2, Cl. 18.5.2)
23	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Seismic Bearings (Structural Isolation,HDRB, LRB)	Compression Stiffness	BSEN 15129 (Clause 8.2.1.2.8)
24	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Seismic Bearings (Structural Isolation,HDRB, LRB)	Determination of force-deflection characteristics & Dynamic testing	ASCE 7-16 (Cl. No. 17.8.5)
25	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Seismic Bearings (Structural Isolation,HDRB, LRB)	Horizontal displacement capacity	BSEN 15129 (Clause 8.2.1.2.7)
26	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Seismic Bearings (Structural Isolation,HDRB, LRB, Pendulum, Sliding bearings)	Compression Capacity (Proof Load test)	AASTHO GSSID - (Cl. 15.2.1, Cl. 17.2.1, Cl. 18.5.1)
27	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Seismic Bearings (Structural Isolation,HDRB,LRB)	Dependence of horizontal characteristics on repeated cycling	BSEN 15129 (Clause 8.2.1.2.5)
28	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (All guided and nonguided expansion type Bearings)	Sliding Coefficient of friction test	AASTHO LRFD (Cl. 18.3.4.4.5)
29	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (Metallic Bearings- Sliding, Roller-Cum-Rocker, Rocker Bearing)	Compression Test / proof load Test	IRC 83 (Part-I) Cl. 11.2.4
30	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (other than Elastomeric Bearings)	Compression Test / proof load Test	BS 5400 (Sec. 9.2 Clause 7.2 b)
31	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (other than Elastomeric Bearings)	Vertical & Horizontal Load Test	BS 5400 [Sec. 9.2 Clause 7.2 (b)]
32	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (Pot Bearings)	Compression Stiffness	BSEN 1337-5 (Annex B)
33	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (Pot Bearings, Disc bearings)	Proof Load test	AASTHO LRFD (Cl. 18.3.4.4.4)

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34	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (Pot Bearings, Disc Bearings, PTFE Sliding bearing, Roller-Rocker Bearings)	Short term compression proof load test	AASHTO (Sec. 18 Clause 18.7.2.5)
35	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (Pot Bearings,Disc Bearings, Sliding bearing,Roller-Rocker Bearings)	Long term Compression proof load test	AASHTO Sec. 18 (Clause 18.7.2.6)
36	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (Pot Bearings,Disc Bearings, Sliding bearing,Roller-Rocker Bearings;) -Fixed and guided Bearings Only	Horizontal Force Capacity Test	AASHTO (Sec. 18 Clause 18.7.2.9)
37	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (Pot, Pin,Metallic guide and Plane sliding Bearings)	Proof load Test	IRC 83 (Part III - Cl. 7.4.3.3.1)
38	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (Spherical & Cylindrical Bearings)	Compression(Vertical Load Test)	IRC 83 [Pt. IV - Cl. 7.4.2 (III)]
39	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (Spherical & cylindrical bearings)	Friction test	IRC 83 [Pt. IV - Cl. 7.4.2 (IV)]
40	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (Spherical and Cylindrical Bearings)	Combined Vertical & Horizontal Load Test	IRC 83 [Pt. IV - Cl. 7.4.2 (V)]
41	MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES	Structural Bearings (Pot Bearings,Metallic guide bearings, Metallic pin bearings & Plane Sliding Bearings)	friction test	IRC 83 (Part III - Cl. 7.4.3.3.2)