National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BALKRISHNA INDUSTRIES LTD (BKT), TIRE TESTING LAB CHOPANKI, A300-305,E306-313, RIICO INDUSTRIAL AREA, CHOPANKI, BHIWADI, ALWAR, RAJASTHAN, INDIA

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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- INDUSTRIAL & FINE CHEMICALS	Accelerator (CBS, TBBS, DCBS)	Determination of Insoluble impurities	ASTM D4934
2	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Accelerator (CBS, TBBS, DCBS)	Determination of Volatile matter	ASTM D 4571
3	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Accelerator (CBS, DCBS, TBBS)	Melting Range: By capillary	ASTM D1519
4	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Accelerator(CBS, TBBS, DCBS)	Ash Content	ASTM D4574
5	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Accelerator,	Identification by FTIR - ATR	ASTM D2702
6	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Activator	Identification by FTIR - ATR	ASTM D2702
7	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Activator (Stearic Acid)	Ash Content	ASTM D4574
8	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Activator (Stearic Acid)	Melting Range: By capillary	ASTM D1519
9	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Activator (Stearic acid)	Acid Value	IS : 548 (Part 1/sec 2)
10	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Activator (Zinc Oxide)	Zinc Oxide Content	IS:35
11	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Antidegradants	Ash Content	ASTM D4574
12	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Antidegradants	Insolubility	ASTM D4934
13	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Antidegradants	Determination of Volatile Material	ASTM D4571
14	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Antioxidant	Identification by FTIR - ATR	ASTM D2702
15	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Antioxidant (6PPD)	Melting Range: By capillary	ASTM D1519
16	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Antioxidants (BLB / BLS)	Acetone Extraction	ASTM D297
17	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Bonding Agent	Identification by FTIR - ATR	ASTM D2702
18	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Dry Bonding Agent(HMMM, SCH)	Ash Content	ASTM D4574

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19	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Dry Bonding Agent(HMMM, SCH)	Volatile Content	ASTM D6738
20	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Dry Bonding Agent (HMMM, SCH)	pH Value	ASTM D6739
21	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Oil treated Sulphur	Insolubility	IS 14127
22	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Oil treated sulphur	Oil content in Oil treated sulphur	ASTM D4573
23	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Oil treated sulphur	Thermal Reversion/Stability of Insoluble Sulphur	IS 14127
24	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Peptizer	Identification by FTIR - ATR	ASTM D2702
25	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Processing Aid	Identification by FTIR - ATR	ASTM D2702
26	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Processing Aid	Determination of Volatile Material	ASTM D4571
27	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Processing Aid	Solubility	ASTM D1766
28	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Processing Aid (MN 50, RN 44, 40 MS)	Softening Point	ASTM E28
29	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Processing Aid (MN 50, RN 44)	Melting Range: By capillary	ASTM D1519
30	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Processing Aid(MN 50, RN 44, 40 MS)	Ash Content	ASTM D4574
31	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Resin	Identification by FTIR - ATR	ASTM D2702
32	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Resin	Ash Content	ASTM D4574
33	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Resin	Softening Point	ASTM E28
34	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Sulphur	Solubility	ASTM D1766
35	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Sulphur	Ash Content	ASTM D4574
36	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Sulphur	Determination of Volatile Material	ASTM D4571
37	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Sulphur	Melting Range: By Capillary tube	ASTM D1519

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38	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Sulphur	Wet Sieve Analysis of Sulphur	ASTM D4572
39	CHEMICAL- RUBBER & RUBBER PRODUCTS	Filler (Carbon Black)	pH Value	ASTM D1512
40	CHEMICAL- RUBBER & RUBBER PRODUCTS	Filler (Silica)	Loss of Ignition	ASTM D4574
41	CHEMICAL- RUBBER & RUBBER PRODUCTS	Filler (Carbon Black)	Ash Content	ASTM D1506
42	CHEMICAL- RUBBER & RUBBER PRODUCTS	Filler (Carbon Black)	Heating Loss	ASTM D1509
43	CHEMICAL- RUBBER & RUBBER PRODUCTS	Filler (Carbon Black)	Iodine Adsorption Number	ASTM D1510
44	CHEMICAL- RUBBER & RUBBER PRODUCTS	Filler (Carbon Black)	Oil Absorption Number	ASTM D2414
45	CHEMICAL- RUBBER & RUBBER PRODUCTS	Filler (Carbon Black)	Pelleted Fines and Attrition	ASTM D1508
46	CHEMICAL- RUBBER & RUBBER PRODUCTS	Filler (Carbon Black)	Pour Density	ASTM D1513
47	CHEMICAL- RUBBER & RUBBER PRODUCTS	Filler (Carbon Black)	Sieve Residue	ASTM D1514
48	CHEMICAL- RUBBER & RUBBER PRODUCTS	Filler (Carbon Black)	Sulphur content by sulphur analyzer	ASTM D1619
49	CHEMICAL- RUBBER & RUBBER PRODUCTS	Filler (Silica)	pH	ASTM D6739
50	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural Rubber	Ash Content	ASTM D1278
51	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural Rubber	Dirt Content	ASTM D1278
52	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural rubber	Plasticity Retention index	ASTM D3194
53	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural Rubber	Volatile Matter	ASTM D1278
54	CHEMICAL- RUBBER & RUBBER PRODUCTS	Oil - Aromatic	Aniline Point for Oil	ASTM D611
55	CHEMICAL- RUBBER & RUBBER PRODUCTS	Oil - Aromatic	Density / Relative density by Hydrometer Method (	ASTM D1298
56	CHEMICAL- RUBBER & RUBBER PRODUCTS	Oil - Aromatic	Kinematic Viscosity (40°C to 200°C)	ASTM D445

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57	CHEMICAL- RUBBER & RUBBER PRODUCTS	Oil - Aromatic	Sulphur content by Sulphur analyzer	ASTM D1552
58	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber product's ash	Ash Analysis: Insolubility in concentrated HCL	ASTM D297
59	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Vulcanizates	Acetone Extraction/ Solvent Extraction	ASTM D297
60	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Vulcanizates	Ash Content by Muffle furnace	ASTM D297
61	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Vulcanizates	Composition - (b) Organic content by TGA	ASTM D6370
62	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Vulcanizates	Composition - (c) Carbon black content by TGA	ASTM D6370
63	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Vulcanizates	Composition - (d) Ash content by TGA	ASTM D6370
64	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Vulcanizates	Cross link density	ASTM D6814
65	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Vulcanizates	Polymer Identification by FT-IR	ASTM D3677
66	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Vulcanizates	Sulphur content by sulphur analyzer	ASTM D1619
67	CHEMICAL- RUBBER & RUBBER PRODUCTS	Synthetic Rubber	Ash Content	ASTM D5667
68	CHEMICAL- RUBBER & RUBBER PRODUCTS	Synthetic rubber	Microstructure of Rubber	ISO 21561 - 2
69	CHEMICAL- RUBBER & RUBBER PRODUCTS	Synthetic Rubber	Oil content for oil extended rubber	ASTM D5774
70	CHEMICAL- RUBBER & RUBBER PRODUCTS	Synthetic rubber	Volatile matter	ASTM D5668
71	CHEMICAL- RUBBER & RUBBER PRODUCTS	Synthetic Rubber (Polybuta diene rubbers)	Microstructure of Rubber - CIS, Trans and Vinyl	IS 10016 (PART - 4)
72	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Bead Wire	Adhesion between tire bead wire and rubber	ASTM D1871
73	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Bead Wire	Breaking Force	ASTM D4975
74	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Bead Wire	Diameter	ASTM D4975
75	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Bead Wire	Elongation at break	ASTM D4975

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76	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Bead Wire	Reverse Bend	IS 1716
77	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Bead Wire	Torsion resistance	ASTM D4975
78	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizates, Tubes & Flap	Tensile Strength	ASTM D412
79	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizates: Cured rubber compounds, Tubes & Flap	Abrasion Resistance Index-ARI: Type-D	ASTM D5963
80	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizates: Cured rubber compounds, Tubes & Flaps	Elongation at Break	ASTM D412
81	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizates: Cured rubber compounds, Tubes & Flaps	Hardness by shore A hardness tester	ASTM D2240
82	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizates: Cured rubber compounds, Tubes & Flaps	Heat Generation and Flexing Fatigue in Compression	ASTM D623
83	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizates: Cured rubber compounds, Tubes & Flaps	Resistance to Ozone cracking under Static and dynamic strain testing	ISO 1431 - 1
84	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizates: Cured rubber compounds, Tubes & Flaps	Tear Strength	ASTM D624
85	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizates: Cured rubber compounds, Tubes & Flaps	Thickness	ASTM D3767
86	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizates: Cured rubber compounds, Tubes & Flaps	Durometer Hardness	ASTM D2240
87	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Assessment of tire resistance to bursting of "E" Mark tires at TTC	ECE 106
88	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Endurance test	ECE 106
89	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Endurance test	ECE 54
90	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Endurance test	IS 15627
91	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Endurance test	IS 15636
92	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Load/Speed Performance test	ECE R75
93	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Outer Diameter (OD)	ECE 106

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94	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Outer Diameter (OD)	ECE 54
95	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Outer Diameter (OD)	ECE R75
96	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Outer Diameter (OD)	IS 15627
97	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Outer Diameter (OD) at TTC	IS 15636
98	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Plunger Test: Breaking Energy	IS 15627
99	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Plunger Test:Breaking Energy	IS 15636
100	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Section Width	ECE R106
101	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Section Width	ECE R54
102	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Section Width	IS 15636
103	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Sectional Width	ECE 106
104	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Sectional Width	IS 15627
105	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Tyres	Sectional Width (CSW)	ECE R75
106	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Yarn & Cords/ Organic tire cords	Breaking Strength of conditioned yarns and cords	ASTM D885M 10A e1
107	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Yarn & Cords/ Organic tire cords	Elongation at Break of conditioned yarns and cords	ASTM D885M 10A e1