

LIST OF TESTING EQUIPMENT

(Details of M&P available with the firm for Chemical & Fire Properties)

S. No.	Name of the Machine/ Equipment	Make	Name of Process	Model	Qty. Nos.
1	TGA -Test Facility For Polymer Content/ %of Polymer	SETLINE	By TGA	TGA	1No.
2	FTIR-Test Facility For Polymer Identification & Pyrolysis	LAMBDA Scientific	By FTIR	FTIR	1No.
3	Ozone Test Chamber	Presto	For Ozone Resistance Testing	Closed chamber	1No.
4	Rheo Meter	Microvision	For Measures the stress-strain relationship to understand the flow/deformation properties of Rubber Compound material	MV-2018	1No.
5	Cone Calorimeter	DNG/FNA	For Determination of Heat release rate, MARHE Value, smoke production and mass loss rate the gross heat of combustion (calorific value)	DNG/CC-2013	1No.
6	Oxygen Index Tester	Veekay	For Determination of Limiting Oxygen Index	VLOI-09	1No.
7	Toxicity Test Chamber with detection tubes & Pump	Veekay	For Determination of Toxicity testing of fire effluents	VTX-09	1No.
8	Smoke Test Chamber	Veekay	For Determination of Visibilty due to smoke & Smoke density	VSD-09	1No.
9	Fire Test Chamber	Veekay	For Determination of Spread of flame	FT-09	1No.
10	Specific gravity Balance	Essae/ Apex	Specific gravity/Density testing	--	1No.
11	NANO Dig. Weighing Balance 0.001g Accuracy	Napco	Chemical analysis of Rubber compound, Ash content Density & Sp.Gravity Testing	NANO	1No.
12	Melting point Apparatus	LC	For Testing of Metal Hardness	LC-08	1No.
13	Computerised Testing Machine with Extenometer for Tensile Strength, %Elongtion & Compatibility Test	Electropulse	For Tensile Strength & Elongation % , Tear Strength and Rubber To Metal adhesion Test	10000N	2007
14	Universal Testing Machine for Tensile Strength, %Elongtion & Compatibility Test	PSI/TEXCARE	For Tensile Strength & Elongation % , Tear Strength and Rubber To Metal adhesion Test	TTM-2A	2007

LIST OF TESTING EQUIPMENT

(Details of M&P available with the firm for Mechanical Testing)

S. No.	Name of the Machine/ Equipment	Make	Name of Process	Model /Capacity	Qty. Nos.
15	Ultrasonic Testing Machine	MODSONIC	To detect small defects such as corrosion, pitting, abrasions, and cracking in the metal Body	Arjun30	1No.
16	Humidity Chamber	Veekay Test Lab	For Samples Conditioning & Testing	Humidity Chamber	1No.
17	Impact Attenuation tester	Electropulse	For Impact Load Testing of Rail Rubber Pads	EP-2021	1No.
18	Secant Stiffness test Equipment	PSI	For Stiffness Testing of rail Rubber Pads	PSI/SS-2020	1No.
19	Load Compression test Equipment	PSI	For load Compression Testing of rail Rubber Pads	Electropulse	1No.
20	Million megohm meter for Electric Resistance Test	Sigma	Electric Resistance Test	-	1No.
21	Portable Metal Hardness Tester	ACCU	For Testing of Metal Hardness	AC-BH11	1No.
22	Aging Chamber	Omega	a) Ageing b) Compression Test	Air Oven	5Nos.
23	Muffle Furnace	Hasthas	Ash Content & Polymer content.	Furnace	2Nos.
24	Abrasion Tester	Presto	Abrasion Test	-	1No.
25	Bi-Axial Load testing - M/c.1 hydraulic press fitted test pressure gauges & Deflection gauges along with Fixtures	SAS Engg.	1) Elastic Modulus/ Compressive Stiffness 2) Shear Modulus 3) Shear Bond Strength 4) Proof Load Test 5) Co-Efficient Friction Test 6) Rotation Test 7) Ultimate Compression strength 8) Stripping strength	Hyd. Press	2Nos.
26	Hardness testers Shore A	Matrutara/STI	Hardness Testing	RHT-701	3Nos.
27	Facility to check viscosity Viscometer	FORD	For checking viscosity of Bonding Agent	FORD CUP	1No.
28	Compression set Apparatus	PSI	Compression set testing	-	30Nos
29	Tension set Apparatus	PSI	Compression set testing	-	30Nos
30	Elco meter	-	Paint Coating Thick.	-	-
31	Adequate no. of measuring instruments (micrometers, dial gages, vernier calipers, Go-No-	Mitu toyo	Measurement & Testing	Dial Gauge, Vernier, etc	10Nos.
32	Cyclic motion/ Fatigue test Equipment & Equip. for Pull-out & Pounding Test	Local	For Testing of Expansion Joints to No. of cycles Expansion & Contraction Pull-out & Pounding Test	EJC-11	1No.