

HEVEA RUBBER TECHNOLOGIES PRIVATE LIMITED

Details of Testing Facilities for Elastomer — Compliance to STR Para 6.1 (Table 1: Chloroprene Seal)

STR Reference: Expansion Joint — Doc. BS-S-7.5.3.1-11, Version 2.0 (per IRC:SP:69-2011), Para 6.1

Sl.	Property / Test	Standard (per STR)	Status	Equipment / Facility	Make	Model No.	Qty	Serial / M/c No.	Capacity / Range	Year	NABL Lab / MoU	Remarks
Table 1 — Chloroprene Seal (IRC:SP:69-2011)												
1	Hardness	DIN 53505 / ASTM D 2240	In-house	Shore-A Hardness Tester	Excel	Shore III (Analog)	2		25–90 Shore A	2023		
2	Tensile Strength	DIN 53504 / ASTM D 412	In-house	Universal Testing Machine	Scientific Equipment & Testing	—	1		0–500 N	1999		
3	Elongation at fracture	DIN 53504 / ASTM D 412	In-house	Universal Testing Machine	Scientific Equipment & Testing	—	1		0–500 N	1999		Same UTM as tensile.
4	Tear propagation strength (longitudinal & transverse)	DIN 53507 / ASTM D 624 (Die C)	In-house	UTM with Die-C tear dies	Scientific Equipment & Testing	—	1		0–500 N	1999		Confirm Die-C tear dies.
5	Shock elasticity (rebound resilience)	DIN 53512	Out-sourced	Rebound resilience test							Hevea–MAEON Labs MoU	Covered by MAEON MoU.
6	Abrasion	DIN 53516	Out-sourced	Abrasion resistance test							Hevea–MAEON Labs MoU	Covered by MAEON MoU.
7	Residual compression strain (22h/70°C/30% strain)	DIN 53517 / ASTM D 395 (Method B)	In-house	Compression Set apparatus	Fabricated in-house	—	1		6 nos / test	2005		
8	Ageing in hot air (14 days/70°C) — Δ hardness, tensile, elongation	DIN 53508	In-house	Hot-air ageing oven	ACE	AP-S-72	1		300 °C	2022		
9	Ageing in ozone (24h/50 pphm/25°C/20% strain)	DIN 53509	In-house	Ozone Chamber	Ozone India Technology	OZ-INDIA-OCT	1		—	2023		
10	Swelling behaviour in oil (168h/25°C, ASTM Oil No. 1 & No.3)	DIN 53521	In-house	Oil immersion + oven / balance	Scientific Equipment & Testing/Aging Oven ACE Microvision IRM 903	AP-S-72	1		300 °C	2022		Requires ASTM Oils No.1 & 3 — confirm in-house or outsource.
11	Cold hardening point	ASTM D 1043	Out-sourced	Low-temperature torsional stiffness							Hevea–MAEON Labs MoU	MAEON MoU — align standard to ASTM D 1043.

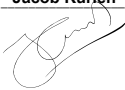
Hevea Rubber Technologies Private Limited
21, YMA Road Poovanthurathu P.O.
Kottayam 686012

HEVEA RUBBER TECHNOLOGIES PRIVATE LIMITED	
Test Facilities for Steel – Compliance to STR Clause 6.4	
Name of Firm / Fabricator:	Hevea Rubber Technologies Private Limited
Registered Address:	21, Development Plot, YMA Road, Poovanthuruthu P.O., Kottayam – 686012, Kerala
STR Reference:	Doc No. BS-S-7.5.3.1-10 Version No. 2.0 Date Effective: 01.05.2026
Clause Reference:	Clause 6.4 – Test Facilities for Steel
Submitted to:	RDSO (Research Designs and Standards Organisation)
Instructions: Cells highlighted in yellow are to be filled by the team. *NA* = not applicable for this facility type. Attach calibration certificates, earlier test certificates, the NABL-lab MoU and previous NABL test certificates as numbered annexures and quote the annexure number in the Remarks column.	

General Details			For IN-HOUSE Facilities – Equipment Details (STR Cl. 6.4)								For OUTSOURCED Facilities – NABL Lab Details (STR Cl. 6.4)					Remarks / Enclosure Annexure No.
Sl. No.	Test Facility (STR Cl. 6.4)	Status (In-house / Outsourced)	Equipment / Instrument	Make	Model No.	Qty.	Serial No.	Capacity / Range	Year of Mfg. / Commissioning	Earlier Test Cert. Ref.	NABL Lab Name	NABL Accreditation No.	MoU Ref. & Date	MoU Validity (From – To, ≥ 65 months)	Previous NABL Test Cert. Ref.	
(i)	Compressive & Tensile Strength testing	In-house & Outsourced	Universal Testing Machine (UTM)	Krystal Equipment	UTK-40E	1	2014/1087	400 kN	2014	(Attached)	Barath Metallurgical Laboratory Pvt. Ltd. (NABL Accredited)	TC-16221	Hevea–BML MoU dated 23/06/2026	23/06/2026 to 23/11/2031 (65 months)	Some reports have been attached	
(ii)	Bend Stress testing	In-house & Outsourced	Universal Testing Machine (UTM) – bend test attachment	Krystal Equipment	UTK-40E	1	2014/1087	400 kN	2014	(Attached)	Barath Metallurgical Laboratory Pvt. Ltd. (NABL Accredited)	TC-16221	Hevea–BML MoU dated 23/06/2026	23/06/2026 to 23/11/2031 (65 months)		
(iii)	Impact Strength testing	Outsourced	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Barath Metallurgical Laboratory Pvt. Ltd. (NABL Accredited)	TC-16221	Hevea–BML MoU dated 23/06/2026	23/06/2026 to 23/11/2031 (65 months)		
(iv)	Hardness testing	Outsourced	N/A	Fasne testing Equipment	DHT-6	1	1553/17	Upto 500 BHN	18-01-2017	N/A	Barath Metallurgical Laboratory Pvt. Ltd. (NABL Accredited)	TC-16221	Hevea–BML MoU dated 23/06/2026	23/06/2026 to 23/11/2031 (65 months)		
(v)	Chemical testing (chemical composition)	Outsourced	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Barath Metallurgical Laboratory Pvt. Ltd. (NABL Accredited)	TC-16221	Hevea–BML MoU dated 23/06/2026	23/06/2026 to 23/11/2031 (65 months)		
(vi)	Ultrasonic testing	In-house & Outsourced	N/A	Supertech scientific	UFD EINSTEIN 2 DFT	1	E4775-1116	N/A	2017	N/A	Barath Metallurgical Laboratory Pvt. Ltd. (NABL Accredited)	TC-16221	Hevea–BML MoU and Hevea-Matrix MOU	23/06/2026 to 23/11/2031 (65 months)		
(vii)	Liquid Penetration testing	In-house & Outsourced	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Barath Metallurgical Laboratory Pvt. Ltd. (NABL Accredited)	TC-16221	Hevea–BML MoU and Hevea-Matrix MOU	23/06/2026 to 23/11/2031 (65 months)		

Notes – STR Clause 6.4 Requirement

Prepared by: Jacob Kurien



Verified by: Laila Kurien



Authorised Signatory:
Kurian Kurien, Managing Director



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HEVEA RUBBER TECHNOLOGIES PRIVATE LIMITED											
Laboratory Facilities for Testing of Expansion Joint — Compliance to STR Clause 6.4											
Name of Firm:			Hevea Rubber Technologies Private Limited								
STR Reference:			Expansion Joint — Doc. BS-S-7.5.3.1-11, Version 2.0, Cl. 6.4 (per IRC:SP:69-2011)								
Submitted to:			RDSO (Research Designs and Standards Organisation), Lucknow								
Legend: green = In-house · blue = Out-sourced (NABL lab MoU) · orange = To be arranged (EJ-specific type test). Yellow cells = firm to complete. Per STR Para 6.7, testing may be done at a NABL/NABCB-accredited lab or a lab specified by the client.											

Sl.	Test Facility Required (EJ STR Cl. 6.4)	Test Method / Reference	Status	Equipment / Facility Provided	Make	Model No.	Qty	Serial / M/c No.	Capacity / Range	Year	Out-sourced Lab / MoU	Remarks
1	Cyclic motion testing facilities	IRC:SP:69-2011, Para 8.3.2.1	In-house	Fatigue testing for Rubber	Hydropak	HEV-02-Hydropak	1	-	10,000 cycles per day	2015		EJ-specific type/performance test — dedicated test rig, or an approved / NABL lab, performance IRC:SP:69 Para 8.3.2
2	Ponding testing facilities	IRC:SP:69-2011, Para 8.3.2.2	In-house	Water Retention/Water leakage testing	Hevea	Hevea-Ponding-001	1	-	-	2015		EJ-specific — to be arranged (rig / approved lab).
3	Debris expelling facilities	IRC:SP:69-2011, Para 8.3.2.3	In-house	Debris Expulsion and Residue	Hydropak	HEV-02-Hydropak	1	-	-	2015		EJ-specific — to be arranged (rig / approved lab).
4	Pull-out testing facilities	IRC:SP:69-2011, Para 8.3.2.4	In-house	Design for the locking system	Hydropak	HEV-02-Hydropak	1	-	200 mm	2015		EJ-specific — to be arranged (rig / approved lab).
5	Fatigue testing facilities	IRC:SP:69-2011	In-house	Fatigue testing for Rubber	Hydropak	HEV-02-Hydropak	1	-	10,000 cycles per day	2015		EJ-specific — to be arranged (rig / approved lab).
6	Abrasive resistance test facilities	ISO 4649 / DIN 53516	Out-sourced	Abrasion test	—	—	—	—	—	—	Hevea-MAEON MoU	Covered by MAEON Labs MoU (abrasion resistance).
7	Universal Tensile strength testing machine	IS 1608 / IS 3400 Pt.1	In-house	Universal Testing Machine	Krystal Equipment	UTK-40E	1	-	400 kN	2014		Steel & rubber tensile — from POT-PTFE lab.
8	Calibrated measuring tape	—	In-house	Steel measuring tape	Krystal Equipment	-	1	-	Upto 1 meter	2025		Maintain valid calibration certificate.
9	Calibrated Vernier Caliper	—	In-house	Vernier caliper	Mitutoyo			-				Maintain valid calibration certificate.
10	Calibrated parallelism meter	—	In-house	Parallelism meter	Mitutoyo	2046S	1	-	10 mm	2019		From POT-PTFE Cl. 6.7.
11	Ageing oven / Chamber	—	In-house	Hot air ageing oven	ACE	AP-S-72	1	-	300 °C	2022		From POT-PTFE Cl. 6.7.
12	Minimum two (2) shore hardness testers with std. test pieces	IS 3400 Pt.2	In-house	Shore-A hardness tester	Excel	Shore III (Analog)	2	-	25–90 Shore A	2023		2 nos — meets STR minimum.
13	Viscometer to check viscosity of adhesive	—	In-house	Viscometer	Satron Meditech		1	-	30 mL	2024		From POT-PTFE Cl. 6.3.
14	Specific gravity testing apparatus	IS 3400 Pt.9	In-house	Specific gravity / density apparatus	Hallmark Mechatronics	PRACTUM 213-10IN	1	-	210 g	2022		From POT-PTFE Cl. 6.3.
15	Bend Test facilities	As per IRC:SP:69-2011	Out-sourced	Bend test	—	—	—	—	—	—	Hevea-BML MoU dtd 23.06.2026	Covered by Barath Metallurgical Lab MoU.
16	Impact testing facilities	As per IRC:SP:69-2011	Out-sourced	Impact test	—	—	—	—	—	—	Hevea-BML MoU dtd 23.06.2026	Covered by Barath Metallurgical Lab MoU.

Prepared by: **Jacob Kurien**

Authorised Signatory: **Kurien Kurien, Managing Director**

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HEVEA RUBBER TECHNOLOGIES PRIVATE LIMITED										
Facilities including Details of Machinery & Plants — Compliance to STR Para 6.2 & 6.3										
STR Reference:		Expansion Joint — Doc. BS-S-7.5.3.1-11, Version 2.0 (per IRC:SP:69-2011)								
Sl.	Machine / Equipment Required (per STR)	Para	Status	Make	Model No.	Qty	Serial / M/c No.	Capacity / Range	Year	Remarks
Para 6.2 — Manufacturing facilities for rubber component										
(i)	Close Mixing Mill / Open Mixing Mill	6.2	In-house	Perumacheril/Santhosh	16x42	2	-	50 kg/hour	1996/2025	
(ii)	Extruder Machine	6.2	In-house	Berestroff	3 inch	1	-	30 kg/hour	2018	
(iii)	Automatic thermic heating moulding	6.2	In-house	Thermal Tech	Cyclotherm	1	-	200,000 Kilo Calories	2019	
(iv)	Adequate number of dies and transfer moulds	6.2	In-house	Hevea	-	-	-	-	-	
(v)	Minimum three (3) portable pneumatic tools (grinders, drilling, chipping)	6.2	In-house	Ibell	AG10-72	5	IBL AG10 7202260904	N/A	2026	
(vi)	Cutting dies for steel plates	6.2	In-house	Hevea	N/A	10	N/A	N/A	-	
(vii)	Buffing machine / Polishing Machine	6.2	In-house	Dewalt	DWE493	2	54675	8500/min	2024	
(viii)	Straight cutting Machine	6.2	In-house	Accural	MS7-6X3200	1	22250228		2025	
(ix)	Hydraulic press machine	6.2	In-house	JAAK/Berestroff/Herbert	JAAK	7	-	200 to 600 metric tons	2011, 2019, 2021, 2023	
(x)	Suitable spraying facilities for adhesive (in-built stirring)	6.2	In-house	Summit Engineers	SC24SM09	1			2015	
(xi)	Shot / Grit Blasting Machine	6.2	In-house	Patel Furnace	3398	1	N/A	1 meter / minute		
(xii)	Minimum three (3) measuring instruments (micrometers, dial, vernier, Go/No-Go)	6.2	In-house	Mitutoyo	2024S	5	LGN436/QCX750	10mm	2020	
(xiii)	Automatic weighing system	6.2	In-house	Orion Automation System	OP100	1	PP20620	100Kg	2022	
Para 6.3 — Facilities for manufacture and supply of Expansion Joints										
1	Oxy-acetylene gas profile cutting equipment (adequate size)	6.3	In-house	ESAB	N/A	1	N/A	50 mm	2012	
2	Radial drilling machines (adequate capacity)	6.3	In-house	Siddhapuram Machine tools / Parmar Machine tools	PMT-R2	2	SMTRII 04/24	800/32mm / / 800/32mm	2026 / 2006	
3	Shaper machine	6.3	In-house	Omega	N/A		N/A	N/A	2015	
4	Welding rectifier / transformer	6.3	In-house	Panasonic	YD400AT3	3	YD400AT3DJR	N/A	2015	
5	Suitable welding manipulators (assembly of expansion joints)	6.3	In-house	KOIKE	Weld-handy	1	-	N/A	2021	
6	Grinder	6.3	In-house	Hitachi	-	7	N/A	N/A	N/A	
7	Adequate measuring instruments (vernier callipers, Go/No-Go gauges)	6.3	In-house	Mitutoyo	2024S	5	LGN436/QCX750	10mm	2020	
8	Gauges for checking weld size, throat thickness, edge preparation	6.3	In-house	Diamond	N/A	1	N/A	0 to 20 mm	2024	
9	Wire brushes & de-slagging hammers (all welders)	6.3	In-house	Local	N/A	3	N/A	N/A	Periodically bought	
10	Facilities for surface preparation / painting / metalizing	6.3	In-house	Compressor Based - ELGI/Spray guns Locally procured	TC-25	1	N/A	25 HP	2025	
11	Shot / Grit Blasting Machine	6.3	In-house	Patel Furnace	3398	1	N/A	1 meter / minute	2025	

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HEVEA RUBBER TECHNOLOGIES PRIVATE LIMITED											
POT-PTFE Bearings — Equipment & Testing-Facilities Master (STR Para 6.3, 6.3.1, 6.4, 6.5, 6.6 & 6.7)											
Ref: RDSO Doc. BS-S-7.5.3.1-12, Version 2.0 (Effective 01.07.2026). Transcribed from Hevea's executed & signed STR chart.											
Sl.	Facility / Machine Required (as per STR)	Test Method / Standard	Equipment / Machine Provided	Make	Model No.	Serial / M/c No.	Capacity	Qty.	Year Mfg./Comm.	In-house / Out-sourced	Remarks (MOU / NABL Lab ref.)
Para 6.3 — Laboratory facilities for testing of Elastomer · MANDATORY IN-HOUSE											
(i)	Universal tensile strength testing facility	As per IRC:83 (Pt-III)	Universal Testing Machine (UTM) — rubber tensile	Hydropak	001	001	600 metric tons	1	1998	In-house	—
(ii)	Compression set testing apparatus	As per IRC:83 (Pt-III)	Compression Set apparatus	Fabricated in house	002	002	6 numbers per test	1	2005	In-house	—
(iii)	Viscometer to check viscosity of adhesive	As per IRC:83 (Pt-III)	Viscometer (for adhesive)	Satron Meditech	003	003	30 mL	1	2024	In-house	—
(iv)	Minimum two (2) Shore hardness testers with std. test pieces	As per IRC:83 (Pt-III)	Shore-A Hardness Tester	Excel	Shore III - Analog	004, 005	25 Shore A to 90 Shore A	2	2023	In-house	—
(v)	Specific gravity testing apparatus	As per IRC:83 (Pt-III)	Specific Gravity / Density apparatus	Hallmark Mechatronics	PRACTUM 213-10IN	38302831	210 g	1	2022	In-house	—
(vi)	Ash content testing facility	As per IRC:83 (Pt-III)	Muffle Furnace (ash content)	Kemi	TC244	1329	Amb to 1000 °C	1	2024	In-house	—
Para 6.3.1 — Laboratory facilities for testing of Elastomer · IN-HOUSE or OUTSOURCED (NABL MOU ≥ 65 months)											
(i)	Rubber/Elastomer testing for ozone resistance	ISO 1431-1	Ozone Testing Chamber	Ozone India Technology	OZ-INDIA-OCT	OZ-INDIA-949	220 V	1	2022	In-house	—
(ii)	Polymer content testing	ASTM D-297	Polymer content test set-up (wet chemical)	Chemicals and Reagents	N/A	N/A	N/A	N/A	N/A	In-house	—
(iii)	Polymer identification testing	IS 3400 (Part XXII)	Polymer identification set-up (wet chemical)	Chemicals and Reagents	N/A	N/A	N/A	N/A	N/A	In-house	—
(iv)	Pyrolysis testing facilities	IS 3400 (Part XXII)	Pyrolysis / TGA set-up	LOGC Bio Analytic Solution	B60/00700	TGA-22-0021	1100 °C	1	2023	In-house	—
(v)	Percentage polymer content	IS 3400 (Part XXII)	Thermogravimetric Analyzer (TGA)	LOGC Bio Analytic Solution	B60/00700	TGA-22-0021	1100 °C	1	2023	In-house	—
(vi)	Adhesion strength of elastomer to steel plate	IS 3400 (Part XIV, A)	UTM with adhesion (peel) fixture	Scientific Equipment & Testing	2	71/99	0-500 N, 100 N-500 N	1	1999	In-house	—
(vii)	Rubber/Elastomer testing with Spectrophotometer	ASTM D3677	Out-sourced (Rubber Board)	N/A	N/A	N/A	N/A	N/A	N/A	Out-sourced	MoU with Rubber Board (Rubber Research India).
Para 6.4 — Test facilities for Mild Steel, Stainless Steel, Brass Sealing Ring, PTFE · OUTSOURCED											
(i)	Compressive & Tensile strength testing facility	As per IRC:83 (Pt-III)	N/A (out-sourced)	N/A	N/A	N/A	N/A	N/A	N/A	Out-sourced	Out-sourced to Barath Metallurgical Laboratory Pvt. Ltd. (NABL), Chennai. MOU dtd 23.06.2026, valid 65 months (to 23.11.2031). Compressive — MOU Sec. 3.5; Tensile — MOU Sec. 3.1-3.4.
(ii)	Bend stress testing facilities	As per IRC:83 (Pt-III)	N/A (out-sourced)	N/A	N/A	N/A	N/A	N/A	N/A	Out-sourced	Out-sourced to Barath Metallurgical Laboratory Pvt. Ltd. (NABL), Chennai. MOU dtd 23.06.2026, valid 65 months (to 23.11.2031). Bend Test — MOU Sec. 3.1.

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HEVEA RUBBER TECHNOLOGIES PRIVATE LIMITED											
POT-PTFE Bearings — Equipment & Testing-Facilities Master (STR Para 6.3, 6.3.1, 6.4, 6.5, 6.6 & 6.7)											
Ref: RDSO Doc. BS-S-7.5.3.1-12, Version 2.0 (Effective 01.07.2026). Transcribed from Hevea's executed & signed STR chart.											
Sl.	Facility / Machine Required (as per STR)	Test Method / Standard	Equipment / Machine Provided	Make	Model No.	Serial / M/c No.	Capacity	Qty.	Year Mfg./Comm.	In-house / Out-sourced	Remarks (MOU / NABL Lab ref.)
(iii)	Impact strength testing facilities	As per IRC:83 (Pt-III)	N/A (out-sourced)	N/A	N/A	N/A	N/A	N/A	N/A	Out-sourced	Out-sourced to Barath Metallurgical Laboratory Pvt. Ltd. (NABL), Chennai. MOU dtd 23.06.2026, valid 65 months (to 23.11.2031). Impact Test 0/~20 °C — MOU Sec. 3.1.
(iv)	Hardness testing facilities	As per IRC:83 (Pt-III)	N/A (out-sourced)	N/A	N/A	N/A	N/A	N/A	N/A	Out-sourced	Out-sourced to Barath Metallurgical Laboratory Pvt. Ltd. (NABL), Chennai. MOU dtd 23.06.2026, valid 65 months (to 23.11.2031). Hardness — MOU Sec. 3.2/3.3/3.4.
(v)	Chemical testing for determination of chemical composition	As per IRC:83 (Pt-III)	N/A (out-sourced)	N/A	N/A	N/A	N/A	N/A	N/A	Out-sourced	Out-sourced to Barath Metallurgical Laboratory Pvt. Ltd. (NABL), Chennai. MOU dtd 23.06.2026, valid 65 months (to 23.11.2031). Chemical composition — MOU Sec. 3.1–3.4.
(vi)	Ultrasonic testing (UT) facilities	As per IRC:83 (Pt-III)	N/A (out-sourced)	N/A	N/A	N/A	N/A	N/A	N/A	Out-sourced	Out-sourced to Matrix Inspection & Engineering Services (See MOU).
(vii)	Liquid penetration testing (LPT) facilities	As per IRC:83 (Pt-III)	N/A (out-sourced)	N/A	N/A	N/A	N/A	N/A	N/A	Out-sourced	Out-sourced to Matrix Inspection & Engineering Services (See MOU).
Para 6.5 — Laboratory facilities for testing of POT-PTFE Bearing - MANDATORY IN-HOUSE											
(i)	Proof load testing facilities	IRC:83 (Pt-III), Para 7.4.3.1	Proof-Load / Compression Testing Machine	IPA	FC025H9	134519, 139599, 134419	600 T	1	2019	In-house	—
(ii)	Friction testing facilities	IRC:83 (Pt-III), Para 7.4.3.2	Friction (coefficient) test rig	IPA	FC025H9	134519, 139599, 134419	600 T	1	2019	In-house	—
(iii)	Rotation testing facilities	IRC:83 (Pt-III), Para 7.4.3.3	Rotation test set-up	IPA	FC025H9	134519, 139599, 134419	600 T	1	2019	In-house	—
Para 6.6 — Machines / equipment available for supply of POT-PTFE Bearings											
1	Oxy-acetylene gas profile cutting equipment (adequate size)	N/A	Gas profile cutting m/c	ESAB	N/A	N/A	50 mm	1	2012	In-house	—
2	Straight cutting equipment	N/A	Straight cutting m/c	Accural	MS7-6X3200	22250228	—	1	2025	In-house	—
3	Radial drilling machine of adequate capacity	N/A	Radial drilling m/c	Siddhapuram / Parmar Machine Tools	PMT-R2	SMTRII 04/24	800/32 mm; 800/32 mm	1; 1	2024; 2006	In-house	—
4	Lathe machine	N/A	Lathe	Udya Machine Tools	HLM2	835	N/A	3	1997	In-house	—
5	Planner or Shaper machine	N/A	Planer / Shaper	Omega	N/A	N/A	N/A	—	—	In-house	—
6	Buffing machine	N/A	Buffing m/c	Dewalt	DWE493	54675	8500/min	2	2024	In-house	—
7	Welding rectifier / transformer	N/A	Welding rectifier / transformer	Panasonic	YD400AT3	YD400AT3DJR	N/A	3	2015	In-house	—
8	Portable pneumatic tools (grinders, drilling, chipping)	N/A	Pneumatic tool set	Ibell	AG10-72	IBL AG10 7202260904	N/A	5	2026	In-house	—
9	Facilities for surface preparation / painting / metalizing	N/A	Surface prep / painting set-up	Patel Furnace	3398	N/A	1 m/min	1	2024	In-house	—

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POT-PTFE Bearings — Equipment & Testing-Facilities Master (STR Para 6.3, 6.3.1, 6.4, 6.5, 6.6 & 6.7)											
Ref: RDSO Doc. BS-S-7.5.3.1-12, Version 2.0 (Effective 01.07.2026). Transcribed from Hevea's executed & signed STR chart.											
Sl.	Facility / Machine Required (as per STR)	Test Method / Standard	Equipment / Machine Provided	Make	Model No.	Serial / M/c No.	Capacity	Qty.	Year Mfg./Comm.	In-house / Out-sourced	Remarks (MOU / NABL Lab ref.)
10	Elcometer or dry film thickness gauge	N/A	Elcometer / DFT gauge	R&D TC100	TC100	HRT/10	1300 µm	1	2025	In-house	—
11	Adhesive spraying facilities with in-built stirring	N/A	Adhesive spray unit (with stirrer)	Summit Engineers	SC24SM09	—	—	1	2025	In-house	—
12	Measuring instruments (micrometers, dial, vernier, Go/No-Go)	N/A	Precision measuring instruments	Mitutoyo	2024S	LGN436 / QCX750	10 mm	5	2020	In-house	—
13	Automatic weighing system	N/A	Automatic weighing system	Orion Automation System	OP100	PP20620	100 kg	1	2022	In-house	—
14	Coating Machine	N/A	Coating / Painting	Summit Engineers	N/A	N/A	1 m/min	1	2025	In-house	—
Para 6.7 — Additional Machines / equipment available for supply of POT-PTFE Bearings											
1	Rheometer (MDR)	N/A	Rheological studies	Micro Vision	MV-MDR	1082	20 N-m	1	2022	In-house	—
2	Air Ovens	IS 3400 (Part 4)	Heating ovens	ACE	AP-S-72	NE/53/65	300 °C	1	2022	In-house	—
3	Muffle Furnace	IS 3400 (Part 22)	Ash content studies	Kemi	TC244	1329	Amb to 1000 °C	1	2024	In-house	—
4	Pneumatic Specimen Cutter	N/A	Die-based cutting	Accural	MS7-6X3200	22250228	—	1	2025	In-house	—
5	Universal Testing Machine for Rubber Testing	IS 3400 (Part 1)	Physical properties of rubber	Scientific Equipment & Testing	2	71/99	0–500 N, 100 N–500 N	1	1999	In-house	—
6	Universal Testing Machine for Steel Testing	IS 1608 (Part 1)	Yield, elongation & ultimate tensile strength	Krystal Equipment	UTK-40E	2014/1087	400 kN	1	2014	In-house	—
7	Profile meter	IS 3073	To check profile & roughness	Positector	6000	N/A	0 to 200 µm	1	2025	In-house	—
8	Ozone Chamber	ISO 1431-1	Ozone resistance chamber	Ozone India Technology	OZ-INDIA-OCT	OZ-INDIA-949	—	1	2023	In-house	—
9	Lab Press	N/A	Test-slab moulding press	Micro Vision	HT-160	—	200 °C	1	2018	In-house	—
10	Straight Edge for Flatness	IRC 83	Flatness check	Kristal	—	—	910 mm	1	2019	In-house	—
11	Parallelism meter	IRC 83	Parallelism check	Mitutoyo	2046S	—	10 mm	1	2019	In-house	—
Note											

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