

HARI SHANKAR SINGHANIA ELASTOMER & TYRE RESEARCH INSTITUTE – PT DIVISION

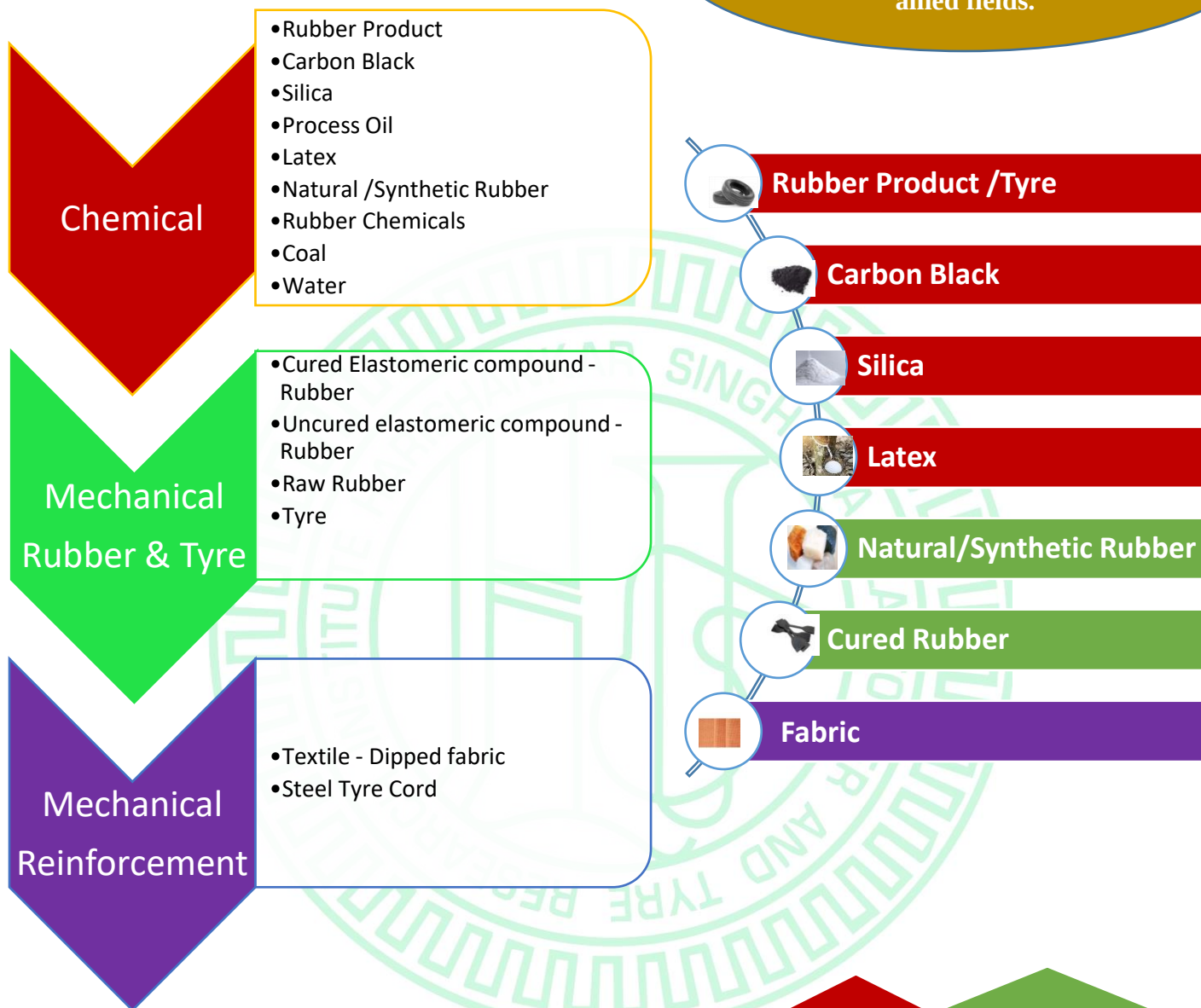


PROFICIENCY TESTING SCHEDULE 2024 - 2025

**HARI SHANKAR SINGHANIA ELASTOMER AND TYRE RESEARCH INSTITUTE (HASETRI)
PROFICIENCY TESTING (PT) DIVISION
Plot No. 437, Hebbal Industrial Area,
Mysore – 570016,
Karnataka, INDIA**



First in India covering detailed PT schemes in Chemical & Mechanical Tests of Rubber and allied fields.



Group	Participation Price Packages (INR)
I	3,000 + 18% GST
II	10,000 + 18% GST
III	12,500 + 18% GST
IV	15,000 + 18% GST
V	35,000 + 18% GST



What is Proficiency Testing?

Proficiency Testing (PT) is the evaluation of a participant's performance against pre-established criteria by means of Inter-laboratory Comparisons. PT is a key element in the laboratory accreditation process, helping laboratories to monitor quality control activities.

Why Proficiency Testing?

Proficiency testing must be a part of the laboratory's quality assurance program that reassures the accuracy in Test results. It's an effective tool because it not only tests your Lab professionals but the entire process of testing.

What is the Process of PT?

The process flow of a PT program is very simple – an unknown sample(s) will be sent by the Proficiency Testing Provider (PTP) to the Participant, once it is received and tested by the laboratory, the lab results are to be shared with the PTP. The PTP would perform a statistical analysis by collecting all the results, and the individual laboratory would receive detailed technical feedback on their performance compared to all other participant laboratories (individual laboratory results are codified to maintain confidentiality).

Why should you participate in PT?

Participating in PT helps you to demonstrate the competence of your Laboratories. According to ISO/IEC 17025: 2017 standard – clause no 7.7.2 a, a Laboratory shall participate in a Proficiency Testing scheme relevant to the respective laboratories. Participation in PT is further endorsed through NABL 163 specific requirements.

Who should participate in PT?

Laboratories proceeding to the NABL accreditation/enhancing the scope, this is a best opportunity for demonstrating your competence and to go through a smooth approval process.

How often do you participate in PT?

Proficiency Testing helps the Laboratories to determine their performance for specific tests or measurements and is used to evaluate laboratories' continuing performance continuously.

**PT schemes in Tyre for
first time (worldwide)**

Year: 2024 Chemical

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Rubber Product												
Ash content	√											
Carbon Black Content	√											
Volatile content	√											
Polymer content	√											
Polymer Identification	√											
Matrix: Silica												
Ignition Loss	√											
pH	√											
Heat Loss	√											
SiO ₂ content	√											
Nitrogen surface area	√											
Matrix: Rubber Chemical												
Volatile content				√								
Softening Point				√								
Ash Content				√								
Heat Loss				√								
Melting point				√								
Matrix: Synthetic Rubber												
Ash content							√					
Volatile Matter							√					
Glass transition temperature							√					
Oil Content							√					
Mixed organic acid content							√					
Soap content							√					
Matrix: Carbon Black												
Iodine Adsorption Number (IAN)							√					
Ash content							√					
pH							√					
Heat loss							√					
Oil Absorption Number (OAN)							√					
Nitrogen Surface Area							√					



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Year: 2024 Chemical

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Water												
Calcium content										√		
pH										√		
Specific conductivity										√		
Total Alkalinity										√		
Total Dissolved solid										√		
Total hardness										√		
Turbidity										√		

Year: 2025 Chemical

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Coal												
Ash content	√											
Equilibrated Moisture Content	√											
Volatile Matter	√											
Fixed Carbon	√											
Calorific Value	√											
Matrix: Process Oil												
Specific Gravity			√									
Aniline Point			√									
Flash Point			√									
Kinematic Viscosity			√									
Matrix: Latex												
Total Solid			√									
pH			√									
Matrix: Natural Rubber												
Ash Content						√						
Volatile Matter						√						
Dirt content						√						
Nitrogen content						√						
Plasticity Retention Index						√						
Matrix: Water												
Calcium content										√		
pH										√		
Specific conductivity										√		
Total Alkalinity										√		
Total Dissolved solid										√		
Total hardness										√		
Turbidity										√		

Year: 2024 Mechanical - Rubber

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Cured elastomeric compound												
Hardness Shore A (Unaged)				√						√		
Hardness IRHD				√						√		
Thickness				√						√		
Stress at 100% Elongation				√						√		
Stress at 200% Elongation				√						√		
Stress at 300% Elongation				√						√		
Tensile Strength				√						√		
Breaking Elongation				√						√		
Change in Hardness (Shore A)				√								
Change in Tensile Strength (Air aged)				√								
Change in Breaking Elongation (Air Aged)				√								
Change in Hardness (Shore A) (Liquid Effect)				√								
Change in Tensile Strength (Liquid Effect)				√								
Change in Breaking Elongation (Liquid Effect)				√								
Tear Strength						√						
Rebound Resilience							√					
Compression Set								√				
Ozone Resistance									√			
Matrix: Uncured elastomeric compound												
Minimum Torque										√		
Maximum Torque										√		
Scorch Time										√		
Cure Time										√		
Mooney Scorch										√		
Matrix: Synthetic Rubber												
Mooney Viscosity											√	

Year: 2025 Mechanical - Rubber

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Cured elastomeric compound												
Hardness Shore A (Unaged)				√						√		
Hardness IRHD				√						√		
Thickness				√						√		
Stress at 100% Elongation				√						√		
Stress at 200% Elongation				√						√		
Stress at 300% Elongation				√						√		
Tensile Strength				√						√		
Breaking Elongation				√						√		
Heat build up		√										
Density						√						
Abrasion Loss						√						
Abrasion Resistance Index						√						
Glass Transition Temperature								√				
Storage Modulus								√				
Loss Modulus								√				
Tan delta								√				
Matrix: Synthetic Rubber												
Mooney Viscosity											√	

Year: 2024 Mechanical - Reinforcement

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Textile (Dipped Fabric)												
Breaking Strength (N)				√								
Elongation at Specified Load (%)				√								
Elongation @ Break (%)				√								
Thermal Shrinkage (%)				√								
Cable Twist (TPM)				√								
Matrix: Steel Tyre Cord												
Breaking Strength (N)									√			
Linear Density (g/m)									√			
Elongation at Break (%)									√			

Year: 2025 Mechanical - Reinforcement

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Textile (Dipped Fabric)												
Breaking Strength (N)				√								
Elongation at Specified Load (%)				√								
Elongation @ Break (%)				√								
Thermal Shrinkage (%)				√								
Cable Twist (TPM)				√								
Matrix: Steel Tyre Cord												
Breaking Strength (N)									√			
Linear Density (g/m)									√			
Elongation at Break (%)									√			

Year: 2024 Mechanical – Tyre

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Rubber Product (Tyre)												
Rolling Resistance Coefficient (RRc)			√							√		
Section width							√					
TWI							√					
Outer Diameter							√					

Year: 2025 Mechanical – Tyre

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Rubber Product (Tyre)												
Section width			√									
TWI			√									
Outer Diameter			√									



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Scheme Details: Chemical

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
1.	Chemical	Rubber Product	T : Ash content S : ASTM D297-2021/ASTM D6370-2019/ ASTM E1131-2020/IS 3400 part-22-2003 R : 0.5 - 15.0%	HPT/C/RP/ AC/1/2024	IV	Jan-24
2.			T : Carbon Black Content S : ASTM D297-2021/ASTM D6370-2019/ ASTM E1131-2020/IS 3400 part-22-2003 R : 10 – 60%	HPT/C/RP/C B/2/2024		
3.			T : Volatile content S : ASTM D297-2021/ASTM D6370-2019/ ASTM E1131-2020/IS 3400 part-22-2003 R : 2 – 30 %	HPT/C/RP/ VC/3/2024		
4.			T : Polymer content S : ASTM D297-2021/ASTM D6370-2019/ ASTM E1131-2020/IS 3400 part-22-2003 R : 30 – 70%	HPT/C/RP/P C/4/2024		
5.			T : Polymer Identification S : ASTM D3677-2019/ ISO 4650-2012 R : Qualitative	HPT/C/RP/P I/5/2024		
6.		Silica	T : pH S : ASTM D6739-2020 R : 4 - 12	HPT/C/S/pH /6/2024	II	Jan-24
7.			T : Heat Loss S : ASTM D6738-2019 R : 3 – 7%	HPT/C/S/HL /7/2024		
8.			T : SiO ₂ content S : ISO 3262-2021/ ISO 5794-1-2022 R : 90 – 100%	HPT/C/S/SD C/8/2024		
9.			T : Ignition Loss S : ASTM D1208-2019/ ISO 3262-2021/ ISO 5794-1-2022 R : 2 – 8%	HPT/C/S/IL/ 9/2024		
10.			T : Nitrogen surface area S : ASTM D1993-2022 R : 100 – 250 m ² /g	HPT/C/S/NS A/10/2024		
11.		Rubber Chemical	T : Ash Content S : ASTM D4574-2022/ ISO 28641-2018/ ISO 11235-2023 R : 0.1 - 10 %	HPT/C/RC/ AC/11/2024	III	Apr-24
12.			T : Heat Loss S : ISO 28641-2018/ ISO 11235-2023 R : 0.1 – 10 %	HPT/C/RC/ HL/12/2024		
13.			T : Volatile content S : ASTM D4571-2022 R : 0.1 – 10 %	HPT/C/RC/ VC/13/2024		
14.			T : Softening Point S : ASTM E28-2018/ ISO 28641-2018 R : 50 – 110°C	HPT/C/RC/S P/14/2024		
15.			T : Melting point S : ASTM D1519-2019/ISO 11235- 2023/ASTM E794-2018 R : 70 – 160°C	HPT/C/RC/ MP/15/2024		

Scheme Details: Chemical (Contd.)

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
16.	Chemical	Synthetic Rubber	T : Ash content S : ASTM D5667-2021/ ISO 247-1-2018 R : 0.1 - 10 %	HPT/C/SR/AC /16/2024	III	Jul-24
17.			T : Volatile Matter S : ASTM D5668-2021/ ISO 248-2-2019/ ISO 248-1-2021 R : 0.1 - 10 %	HPT/C/SR/V M/17/2024		
18.			T : Glass transition temperature S : ASTM D7426-2013/ ASTM E1356-2014/ ISO 22768-2020 R : (-)160 –200 °C	HPT/C/SR/GT /18/2024		
19.			T : Oil Content S : ASTM D5774-2019 R : 10 - 40 %	HPT/C/SR/OC /19/2024		
20.			T : Mixed organic acid content S : ASTM D5774-2019/ ISO 7781-2017 R : 1 - 10 %	HPT/C/SR/M OAC/20/2024		
21.			T : Soap content S : ASTM D5774-2019/ ISO 7781-2017 R : 0.01 - 5 %	HPT/C/SR/SC /21/2024		
22.		Carbon Black	T : Iodine Adsorption Number (IAN) S : ASTM D1510-2023 R : 80 – 140 g/Kg	HPT/C/CB/IA N/22/2024	IV	Jul-24
23.			T : Heat loss S : ASTM D1509-2023/ISO1126-2015 R : 0.01 - 10.0 %	HPT/C/CB/H L/23/2024		
24.			T : Ash content S : ISO 247-1-2018/ASTM D5667-2021 R : 0.01 – 5.0%	HPT/C/CB/A C/24/2024		
25.			T : pH S : ASTM D1512-2021 R : 5 - 8	HPT/C/CB/pH /25/2024		
26.			T : Oil Absorption Number (OAN) S : ASTM D2414-2023/ ISO 4656-2012 R : 10 – 200 ml/100g	HPT/C/CB/O AN/26/2024		
27.			T : Nitrogen Surface Area S : ASTM D6556-2021/ ISO 18852-2015 R : 1 – 300 m ² /g	HPT/C/CB/NS A/27/2024		
28.		Water	T : Calcium content S : IS 3025 P-40 / APHA 3500 Ca R : 10-60 mg/kg	HPT/C/W/CC/ 28/2024	I	Oct-24
29.			T : pH S : IS 3025 P-11-2022 / APHA 4500-H-B-2017 R : 6 – 10	HPT/C/W/pH/ 29/2024		
30.			T : Specific Conductivity S : IS 3025 P-14-2013(RA 2023) / APHA 2510 B-2017 R : 100 – 500 µS/cm	HPT/C/W/SC/ 30/2024		



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Scheme Details: Chemical (Contd.)

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
31.	Chemical	Water	T : Total Alkalinity S : IS 3025 P-23-2023 / APHA 2320 B-2017 R : 20 – 100 mg/kg	HPT/C/W/TA/31/2024	I	Oct-24
32.			T : Total Dissolved Solid S : IS 3025 P-16-2023 / APHA 2540 C-2017 R : 100 – 300 mg/kg	HPT/C/W/TD S/32/2024		
33.			T : Total Hardness S : IS 3025 P-21-2009(RA 2023) / APHA 2340 C-2017 R : 40 - 120 mg/kg	HPT/C/W/TH/33/2024		
34.			T : Turbidity S : IS 3025 P-10-2023 / APHA 2130 B-2017 R : 1.0-50.0 NTU	HPT/C/W/T/34/2024		
35.		Coal	T : Ash content S : IS 1350-1-2019 R : 1 - 25 %	HPT/C/C/AC/35/2025	II	Jan-25
36.			T : Equilibrated Moisture Content S : IS 1350-1-2019 R : 0.1 - 30 %	HPT/C/C/MC/36/2025		
37.			T : Volatile matter S : IS 1350-1-2019 R : 20 - 60 %	HPT/C/C/VM/37/2025		
38.			T : Fixed Carbon S : IS 1350-1-2019 R : 20 - 60 %	HPT/C/C/FC/38/2025		
39.			T : Calorific value S : IS 1350-2-2022 R : 3000-7000 KCal/Kg	HPT/C/C/CV/39/2025		
40.		Process Oil	T : Aniline Point S : ASTM D611-2016 R : 10 - 150°C	HPT/C/PO/AP/40/2025	IV	Mar-25
41.			T : Flash Point S : ASTM D92-2018 R : 60 – 300 °C	HPT/C/PO/FP/41/2025		
42.			T : Specific Gravity S : ASTM D1298-2017 R : 0.6 - 1.3 g/cm ³	HPT/C/PO/SG/42/2025		
43.			T : Kinematic viscosity S : ASTM D445-2019 R : 10 – 50 mm ² /s	HPT/C/PO/KV/43/2025		
44.		Latex	T : Total Solid S : ASTM D1417-2021 R : 20 - 70 %	HPT/C/L/TS/44/2025	II	Mar-25
45.			T : pH S : ASTM D1417-2021 R : 5-12	HPT/C/L/pH/45/2025		

Scheme Details: Chemical (Contd.)

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
46.	Chemical	Natural Rubber	T : Ash Content S : ISO 247-1-2018 R : 0.01 - 5 %	HPT/C/NR/A C/46/2025	IV	June-25
47.			T : Volatile Matter S : ISO 248-1-2021/ ISO 248-2-2019 R : 0.1 - 10 %	HPT/C/NR/V M/47/2025		
48.			T : Dirt content S : ASTM D1278-2020/ ISO 249-2016 R : 0.01 - 10 %	HPT/C/NR/D C/48/2025		
49.			T : Nitrogen content S : ISO 1656-2019 R : 0.1 – 1 %	HPT/C/NR/N C/49/2025		
50	Mechanical		T : Plasticity Retention Index (PRI) S : ISO 2930:2017/ ASTM D3194:2017(2022) R : 1 – 100%	HPT/M/NR/P RI/50/2025		

Scheme Details: Mechanical – Rubber

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
51.	Mechanical- Rubber	Cured elastomeric compound	T : Hardness Shore A S : ASTM D 2240:2015(2021) / ISO 48-4:2018 / IS 3400 (Part 2 Sec 4):2022 R : 40 – 90 Shore A	HPT/M/CEC/ HS/51/2024	III	Apr-24
52.			T : Hardness IRHD S : ASTM D 1415:2018 / ISO 48-2:2018 / IS 3400 (Part 2 Sec 2):2023 R : 40 – 90 IRHD	HPT/M/CEC/ HI/52/2024		
53.			T : Thickness S : ASTM D3767:2003(2020) R : 0.01 – 10mm	HPT/M/CEC/ T/53/2024		
54.			T : Stress at 100% Elongation S : ASTM D412:2016(2021) / ISO 37:2017 / IS 3400 (Part 1):2021 R : 0.1 – 10MPa	HPT/M/CEC/ SE1/54/2024	III	Apr-24
55.			T : Stress at 200% Elongation S : ASTM D412:2016(2021) / ISO 37:2017 / IS 3400 (Part 1):2021 R : 0.1 – 15MPa	HPT/M/CEC/ SE2/55/2024		
56.			T : Stress at 300% Elongation S : ASTM D412:2016(2021) / ISO 37:2017 / IS 3400 (Part 1):2021 R : 1 – 25MPa	HPT/M/CEC/ SE3/56/2024		
57.			Tensile Strength S : ASTM D412:2016(2021) / ISO 37:2017 / IS 3400 (Part 1):2021 R : 1 – 30MPa	HPT/M/CEC/ TS/57/2024		
58.			T : Breaking Elongation S : ASTM D412:2016(2021) / ISO 37:2017 / IS 3400 (Part 1):2021 R : 10 – 600%	HPT/M/CEC/ BE/58/2024	III	Apr-24
59.			T : Change in Hardness (Shore A) Air aged) S : ASTM D 2240:2015(2021) / ISO 48-4:2018 / IS 3400 (Part 2 Sec 4):2022/ ASTM D573:2004(2019) / ISO 188:2023 / IS 3400 (Part 4):2012 R : 1 – 50 Shore A	HPT/M/CEC/ CH/59/2024		
60.			T : Change in Tensile Strength (Air aged) S : ASTM D412:2016(2021) / ISO 37:2017 / IS 3400 (Part 1):2021/ ASTM D573:2004(2019) / ISO 188:2023 / IS 3400 (Part 4):2012 (Part 10) R : 1 – 250%	HPT/M/CEC/ CTS/60/2024		
61.			T : Change in Breaking Elongation (Air Aged) S : ASTM D412:2016(2021) / ISO 37:2017 / IS 3400 (Part 1):2021/ ASTM D573:2004(2019) / ISO 188:2023 / IS 3400 (Part 4):2012 R : 1 – 500 %	HPT/M/CEC/ CBE/61/2024		



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Scheme Details: Mechanical – Rubber (Contd.)

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
62.	Mechanical- Rubber	Cured elastomeric compound	T : Change in Hardness (Shore A) (Liquid Effect) S : ASTM D 2240:2015(2021) / ISO 48-4:2018 / IS 3400 (Part 2 Sec 4):2022/ ASTM D471:2016(2021) ISO 1817:2022 / IS 3400 (Part 6):2018 R : 1 – 30 Shore A	HPT/M/CEC/C HSL/62/2024	III	Apr-24
63.			T : Change in Tensile Strength (Liquid Effect) S : ASTM D412:2016(2021) / ISO 37:2017 / IS 3400 (Part 1):2021/ ASTM D471:2016(2021)ISO 1817:2022 / IS 3400 (Part 6):2018 R : 1 – 250 %	HPT/M/CEC/C TSL/63/2024		
64.			T : Change in Breaking Elongation (Liquid Effect) S : ASTM D412:2016(2021) / ISO 37:2017 / IS 3400 (Part 1):2021/ ASTM D471:2016(2021)ISO 1817:2022 / IS 3400 (Part 6):2018 R : 1 – 500%	HPT/M/CEC/C BEL/64/2024		
65.			T : Tear Strength (Angle) S : ASTM D 624:2000(2020) / ISO 34-1:2022 IS 3400 (Part 12):2022 R : 10 – 100N/mm	HPT/M/CEC/T S/65/2024	II	June-24
66.			T : Rebound Resilience (Schob Pendulum) S : ASTM D 7121:2005(2018) / ISO 4662:2017 / IS 3400 (Part 11):2021 R : 10 – 90%	HPT/M/CEC/R R/66/2024	II	Jul-24
67.			T : Compression Set S : ASTM D 395:2018 / ISO 815-1:2019 / IS 3400 (Part 10-Sec 1):2020 R : 10 – 90%	HPT/M/CEC/C S/67/2024	II	Aug-24
68.			Ozone Resistance S : ASTM D1149:2018 / ISO1431-1:2022 / IS 3400 (Part 20):2018 R : Qualitative	HPT/M/CEC/O R/68/2024	II	Sept-24
69.		Uncured elastomeric compound	T : Minimum Torque S : ASTM D 5289:2019 / ISO 6502 -3:2023 R : 0.1 – 10lb-in	HPT/M/UEC/M I/69/2024	III	Oct-24
70.			T : Maximum Torque S : ASTM D 5289:2019 / ISO 6502 -3:2023 R : 1 – 30lb-in	HPT/M/UEC/M T/70/2024		
71.			T : Scorch Time S : ASTM D 5289:2019 / ISO 6502 -3:2023 R : 0.1 – 20min.	HPT/M/UEC/S T/71/2024		
72.			T : Cure Time S : ASTM D 5289:2019 / ISO 6502 -3:2023 R : 1 – 50min.	HPT/M/UEC/C T/72/2024		
73.			T : Mooney Scorch S : ASTM D1646:2019 / ISO 289-2:2020 R : 1 – 50min.	HPT/M/UEC/M S/73/2024		

Scheme Details: Mechanical – Rubber (Contd.)

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
74.	Mechanical- Rubber	Raw Polymer	T : Mooney Viscosity S : ASTM D1646:2019 / ISO 289-1:2015 R : 20 – 100 Mooney Units	HPT/M/RP/M V/74/2024	II	Nov-24
75.		Cured elastomeric compound	T : Heat build up S : ASTM D623:2007(2019) / ISO 4666-3:2022 R : 1 - 40 °C	HPT/M/CEC/ HBU/75/2025	II	Feb-25
76.			T : Density S : ISO 2781:2018 / IS 3400 (Part 9):2020 R : 0.90 – 2.0g/cc	HPT/M/CEC/ D/76/2025	III	June-25
77.			T : Abrasion Loss S : ISO 4649:2017 / IS 3400 (Part 3):2021 R : 10 – 300mm ³	HPT/M/CEC/ AL/77/2025		
78.			T : Abrasion Resistance Index S : ASTM D 5963:2022/ ISO 4649:2017 / IS 3400 (Part 3):2021 R : 10 – 300%	HPT/M/CEC/ ARI/78/2025		
79.			T : Glass Transition Temperature S : ASTM D 5992:1996(2018) / ISO 4664-3:2021 R : (-50) - 10 °C	HPT/M/CEC/ GTT/79/2025	IV	Aug-25
80.			T : Storage Modulus S : ASTM D 5992:1996(2018) / ISO 4664-1:2022 R : 1 – 100MPa	HPT/M/CEC/ SM/80/2025		
81.			T : Loss Modulus S : ASTM D 5992:1996(2018) / ISO 4664-1:2022 R : 1 – 100MPa	HPT/M/CEC/ LM/81/2025		
82.			T : Tan delta S : ASTM D 5992:1996(2018) / ISO 4664-1:2022 R : 0.001 – 1.00	HPT/M/CEC/ TD/82/2025		



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Scheme Details: Mechanical – Rubber Product (Tyre)

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
83.	Mechanical – Rubber Product	Tyre	T : Rolling Resistance Coefficient (RRc) TBR/PCR S : ISO 28580:2018 R : 3 - 15 N/kN	HPT/M/T/RRc/83/2024	V	Mar-24 /Oct-24
84.			T : Section Width PCR/TBR/2-3Wheeler S : IS 15627:2022 / IS 15633:2022 / IS 15636:2022 / FMVSS 119:1988 / FMVSS 139:2007 / FMVSS 109:2005 / GSO 645:2005 / GSO 646:1996 / GSO 647:1996 R : 45 - 550 mm	HPT/M/T/SW/84/2024	III	Jul-24/ Mar -25
85.			T : TWI PCR/TBR/2-3Wheeler S : IS 15627:2022 / IS 15633:2022 / IS 15636:2022 FMVSS 119:1988 / FMVSS 139:2007 / FMVSS 109:2005 / GSO 645:2005 / GSO 646:1996 / GSO 647:1996 R : 0.5 – 5 mm	HPT/M/T/TWI/85/2024		
86			T : Outer Diameter PCR/TBR/2-3Wheeler S : IS 15627:2022 / IS 15633:2022 / IS 15636:2022 FMVSS 119:1988 / FMVSS 139:2007 / FMVSS 109:2005 / GSO 645:2005 / GSO 646:1996 / GSO 647:1996 R : 250 – 1500 mm	HPT/M/T/OD/86/2024		

Scheme Details: Mechanical – Reinforcement

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
87.	Mechanical - Reinforcement	Textile (Dipped Fabric)	T : Breaking Strength (kgf) S : ASTM D885/D885M: 2010A (2014)e1 /IS 4910 (Part 3) : 2023 R : 50-1000 N	HPT/M/T/BS /87/2024	III	Apr-24
88.			T : Elongation at Specified Load (%) S : ASTM D885/D885M:2010A (2014)e1 /IS 4910 (Part 3):2023 R : 1.0 – 20.0%	HPT/M/T/PL E/88/2024		
89.			T : Elongation @ Break (%) S : ASTM D885/D885M:2010A (2014)e1 /IS 4910 (Part 3):2023 R : 1 -50%	HPT/M/T/EB /89/2024		
90.			T : Thermal Shrinkage (%) S : ASTM D4974/D4974M-22 / IS 4910 (Part 5):2023 R : 0.5 – 10.0%	HPT/M/T/TS/ 90/2024	II	
91.			T : Cable Twist (TPM) S : ASTM D885/D885M:2010A (2014)e1 / ISO 2061:2015 R : 200-500TPM	HPT/M/T/CT /91/2024		



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Scheme Details: Mechanical – Reinforcement

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
92.	Mechanical - Reinforcement	Steel Tyre Cord	T : Breaking Strength (N) S : ASTM D2969:2004(2014) R : 100 – 5000 N	HPT/M/STC/BS/92/2024	III	Sept-24
93.			T : Linear Density (g/m) S : ASTM D2969:2004(2014) R : 1.0 -25 g/m	HPT/M/STC/LD/93/2024		
94.			T : Elongation at Break (%) S : ASTM D2969:2004(2014) R : 0.5 – 10 %	HPT/M/STC/EB/94/2024		

T: Test Parameter

S: Standard Test method

R: Range

Note: The minimum number of participants in the proficiency testing scheme shall be not less than the expected number mentioned in the consent form. Suppose your Laboratory is interested in participating in any of the Proficiency Testing Schemes in the PT Calendar 2024-25. In that case, we request you to fill the details in the supplied consent and registration form, scan it and send it back to the Quality Manager and concerned PT-Coordinator.

PT Scheme Communication (ISO/IEC 17043:2023):

7.1.2.1 (a) **Objective:** To assess the competency of the laboratory to determine the different test parameters through a Proficiency Testing study (PT).

7.1.2.1 (b) **Criteria to be met for participation:** Accredited/accreditation in process/Non-accredited Laboratories can participate in the PT Programs

7.1.2.1 (c) **Criteria for determining the assigned value and the evaluation of the performance of participants:**

Assigned value will be determined from participants' data following Annexure C, Algorithm A as per ISO 13528:2022

If $|z| \leq 2$ "Satisfactory" performance and generates no signal.

If $2 < |z| < 3$ "Questionable" performance and generates a warning signal.

If $|z| \geq 3$ "Unsatisfactory" performance and generates action signal.

7.1.2.1 (d) **Confidentiality arrangements:** All the information and data associated with the PT schemes, which may reveal to the Laboratory or obtained by the Laboratory from Hari Shankar Singhania Elastomer and Tyre Research Institute (HASETRI), its customers, employees with respect to the working of Hari Shankar Singhania Elastomer and Tyre Research Institute (HASETRI), its participants in the course of participating in Proficiency Testing (PT) Program organized by Hari Shankar Singhania Elastomer and Tyre Research Institute (HASETRI) remain confidential. All the participants are necessary to maintain confidentiality and to sign a one-time confidentiality agreement.

7.1.2.1 (e) **Critical timeliness:** Every PT Scheme takes 3 months to complete from the initiating date. Further breakdown of the schedule will be given towards the PT scheme.

7.1.2.1 (f) **Any fees for participation:** Fees of the scheme mentioned against each PT scheme in groups.

7.1.2.1 (g) **Details of how to apply:** Mentioned in Note.

Remember:

1. The programs are accredited according to ISO/IEC 17043:2010 by National Accreditation Board for Testing and Calibration Laboratories (NABL).
2. Homogeneity and Stability test has been carried out by HASETRI – PT Division only.
3. Laboratory can participate in PT Programs with equivalent Test methods
4. For more information, please contact by phone or by e-mail to the concerned.
5. PT Schemes conducting more than once will have change in scheme no. corresponding to year and number of times.



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