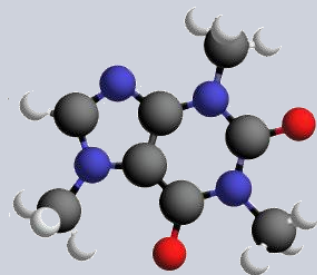




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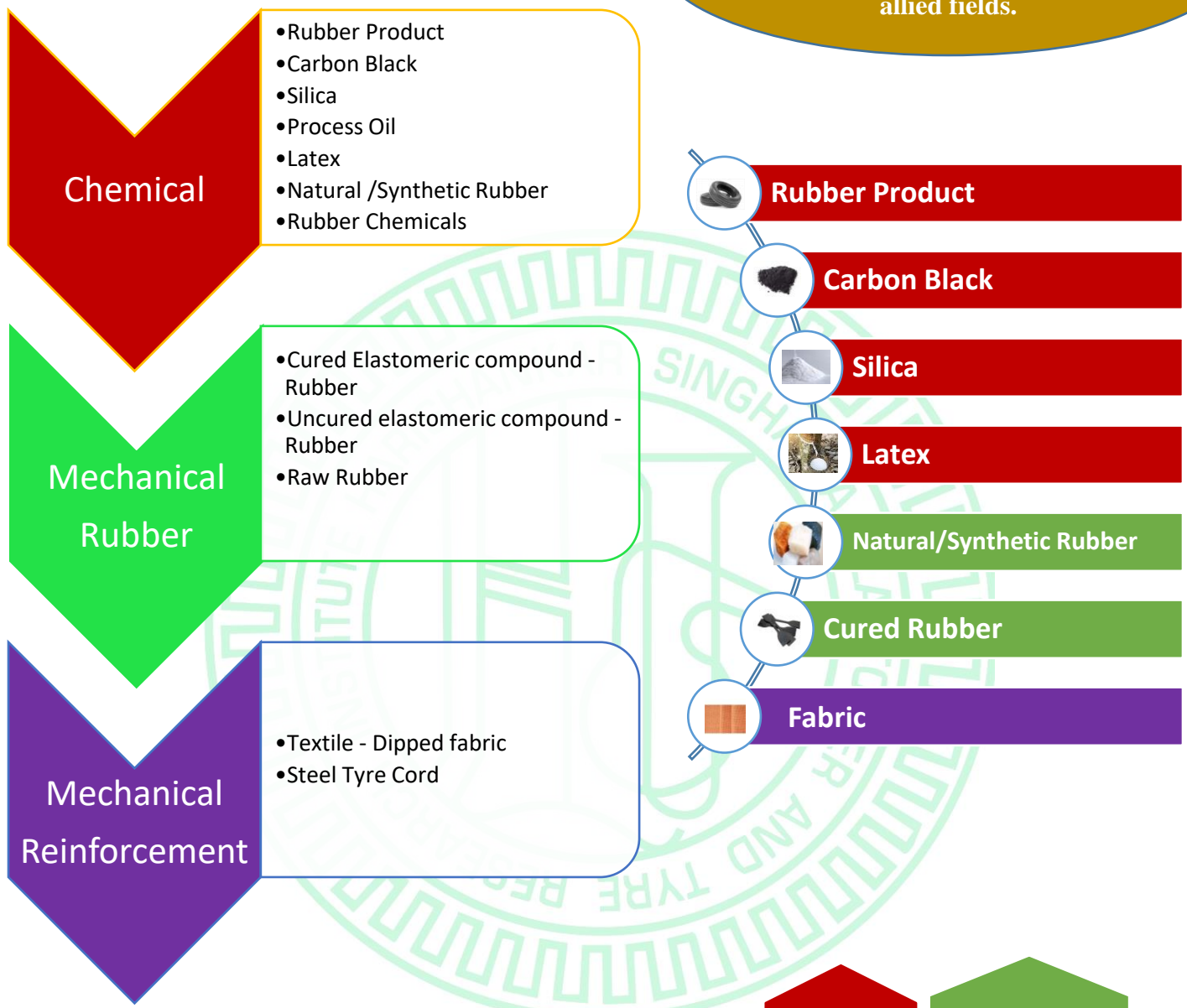


PROFICIENCY TESTING SCHEDULE 2022 - 2024

**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	5,000 + GST 18%
II	10,000 + GST 18%
III	12,500 + GST 18%
IV	15,000 + GST 18%





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PROFICIENCY TESTING PROVIDER DIVISION**

An ISO/IEC 17043: 2010 & ISO/IEC 17025:2017 Accredited Laboratory

Year: 2022 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: Carbon Black												
Iodine Adsorption Number (IAN)											√	
Heat loss											√	
Ash content											√	
pH											√	
Oil Absorption Number (OAN)											√	
Nitrogen Surface Area											√	
Matrix: Rubber Chemical												
Ash Content							√					
Heat Loss							√					
Volatile content							√					
Softening Point							√					
Melting point							√					

Year: 2022 Chemical (Contd.)

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Coal*												
Ash Content							√					
Moisture Content							√					
Volatile matter							√					
Fixed Carbon							√					
Calorific value							√					



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Year: 2023 Chemical

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Process Oil												
Aniline Point			√									
Flash Point			√									
Specific Gravity			√									
Kinematic viscosity			√									
Matrix: Latex												
Total Solid							√					
pH							√					
Matrix: Natural Rubber												
Ash Content									√			
Volatile Matter									√			
Dirt content									√			
Nitrogen content									√			

Year: 2024 Chemical

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Silica												
pH	√											
Heat Loss	√											
SiO2 content	√											
Ignition Loss	√											
Nitrogen surface area	√											
Matrix: Synthetic Rubber												
Ash content							√					
Volatile Matter							√					
Glass transition temperature							√					
Oil Content							√					
Mixed organic acid content							√					
Soap content							√					



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Year: 2022 Mechanical - Rubber

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Cured elastomeric compound - Rubber												
Hardness Shore A			√						√			
Hardness IRHD			√						√			
Stress at 300% Elongation			√						√			
Tensile Strength			√						√			
Breaking Elongation			√						√			
Tear Strength					√							
Heat build up							√					
Ozone Resistance									√			
Matrix: Synthetic Rubber												
Mooney Viscosity						√				√		
Matrix: Uncured elastomeric compound- Rubber												
Minimum Torque										√		
Maximum Torque										√		
Scorch Time										√		
Cure Time										√		
Mooney Scorch										√		

Year: 2022 Mechanical - Reinforcement

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix : Textile (Dipped Fabric)												
Breaking Strength (kgf)		√										
Part Load Elongation at (6.8kg) (%)		√										
Elongation @ Break (%)		√										
Thermal Shrinkage (%)		√										
Cable Twist (TPM)		√										
Matrix : Steel Tyre Cord												
Breaking Strength (N)					√							
Linear Density (g/m)					√							
Elongation at Break (%)					√							

Year: 2023 Mechanical - Rubber

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix: Cured elastomeric compound - Rubber												
Hardness Shore A			√						√			
Hardness IRHD			√						√			
Stress at 300% Elongation			√						√			
Tensile Strength			√						√			
Breaking Elongation			√						√			
Rebound Resilience			√									
Compression Set					√					√		
Density							√					
Abrasion Loss							√					
Abrasion Resistance Index							√					
Glass Transition Temperature									√			
Storage Modulus									√			
Loss Modulus									√			
Tan delta									√			
Matrix: Synthetic Rubber												
Mooney Viscosity						√				√		

Year: 2023 Mechanical - Reinforcement

Scope	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Matrix : Textile (Dipped Fabric)												
Breaking Strength (kgf)				√								
Part Load Elongation at (6.8kg) (%)				√								
Elongation @ Break (%)				√								
Thermal Shrinkage (%)				√								
Cable Twist (TPM)				√								
Matrix : Steel Tyre Cord												
Breaking Strength (N)									√			
Linear Density (g/m)									√			
Elongation at Break (%)									√			

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/ASTM D6370/ ASTM E1131/IS 3400 part-22 R : 0.5 - 15.0%	HPT/C/RP/A C/1/2022	IV	Mar-22
2.			T : Carbon Black Content S : ASTM D297/ASTM D6370/ ASTM E1131/IS 3400 part-22 R : 10 – 60%	HPT/C/RP/C B/2/2022		
3.			T : Volatile content S : ASTM D297/ASTM D6370/ ASTM E1131/IS 3400 part-22 R : 2 – 30 %	HPT/C/RP/V C/3/2022		
4.			T : Polymer content S : ASTM D297/ASTM D6370/ ASTM E1131/IS 3400 part-22 R : 30 – 70%	HPT/C/RP/P C/4/2022		
5.			T : Polymer Identification S : ASTM D3677/ ISO 4650 R : Qualitative	HPT/C/RP/PI /5/2022		
6.		Carbon Black	T : Iodine Adsorption Number (IAN) S : ASTM D1510 R : 80 – 140 g/Kg	HPT/C/CB/I AN/6/2022	IV	Nov-22
7.			T : Heat loss S : ASTN D1509/ISO1126 R : 10.0 %	HPT/C/CB/H L/7/2022		
8.			T : Ash content S : ISO 247-1/ASTM D5667 R : 0.01 – 5.0%	HPT/C/CB/A C/8/2022		
9.			T : pH S : ASTM D1512 R : 5 - 8	HPT/C/CB/p H/9/2022		
10.			T : Oil Absorption Number (OAN) S : ASTM D2414/ ISO 4656 R : 10 – 200 ml/100g	HPT/C/CB/O AN/10/2022		
11.			T : Nitrogen Surface Area S : ASTM D6556/ ISO 18852 R : 1 – 300 m2/g	HPT/C/CB/N SA/11/2022		
12.		Rubber Chemical	T : Ash Content S : ASTM D4574/ ISO 28641/ ISO 11235 R : 0.0 - 10 %	HPT/C/RC/A C/12/2022	II	Jul-22
13.			T : Heat Loss S : ISO 28641/ ISO 11235 R : 0.0 – 10 %	HPT/C/RC/H LA/13/2022		
14.			T : Volatile content S : ASTM D4571 R : 0 – 10 %	HPT/C/RC/V C/14/2022		
15.			T : Softening Point S : ASTM E28/ ISO 28641 R : 50 – 110°C	HPT/C/RC/S P/15/2022		

Scheme Details: Chemical (Contd.)

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
16.	Chemical	Rubber Chemical	T : Melting point S : ASTM D1519/ISO 11235/ ASTM E794 R : 70 – 160°C	HPT/C/RC/M P/16/2022	IV	Mar-23
17.		Process Oil	T : Aniline Point S : ASTM D611 R : 10 - 150°C	HPT/C/PO/AP /17/2023		
18.			T : Flash Point S : ASTM D92 R : 60 – 300 °C	HPT/C/PO/FP /18/2023		
19.			T : Specific Gravity S : ASTM D1298 R : 0.6 - 1.3 g/cm3	HPT/C/PO/SG /19/2023		
20.			T : Kinematic viscosity S : ASTM D445 R : 10 – 50 mm2/s	HPT/C/PO/K V/20/2023		
21.			Latex	T : Total Solid S : ASTM D1417 R : 1 - 90 %	HPT/C/L/TS/2 1/2023	II
22.		T : pH S : ASTM D1417 R : 1-14		HPT/C/L/pH/2 2/2023		
23.		Natural Rubber	T : Ash Content S : ISO 247-1 R : 0.1 - 45 %	HPT/C/NR/A C/23/2023	II	Sept-23
24.			T : Volatile Matter S : ISO 248-1/ ISO 248-2 R : 0.0 - 10 %	HPT/C/NR/V M/24/2023		
25.			T : Dirt content S : ASTM D1278/ ISO 249 R : 0.0 - 10 %	HPT/C/NR/D C/25/2023		
26.			T : Nitrogen content S : ISO 1656 R : 0 – 0.5 %	HPT/C/NR/N C/26/2023		
27.			Silica	T : pH S : ASTM D6739 R : 4 - 12		
28.		T : Heat Loss S : ASTM D6738 R : 3 – 7%		HPT/C/S/HL/ 28/2024		
29.		T : SiO2 content S : ISO 3262-20/ ISO 5794-1 R : 90 – 100%		HPT/C/S/SDC 29/2024		
30.		T : Ignition Loss S : ASTM D1208/ ISO 3262-20/ ISO 5794-1 R : 2 – 8%		HPT/C/S/IL/3 0/2024		
31.	T : Nitrogen surface area S : ASTM D1993 R : 1 – 300 m2/g	HPT/C/S/NSA /31/2024				

Scheme Details: Chemical (Contd.)

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
32.	Chemical	Synthetic Rubber	T : Ash content S : ASTM D5667/ ISO 247-1 R : 0.0 - 45 %	HPT/C/SR/AC /32/2024	II	Jul-24
33.			T : Volatile Matter S : ASTM D5668/ ISO 248-2/ ISO248-1 R : 0.1 - 10 %	HPT/C/SR/V M/33/2024		
34.			T : Glass transition temperature S : ASTM D7426/ ASTM E1356/ ISO 22768 R : (-)160 –200 °C	HPT/C/SR/GT /34/2024		
35.			T : Oil Content S : ASTM D5774 R : 1 - 40 %	HPT/C/SR/OC /35/2024		
36.			T : Mixed organic acid content S : ASTM D5774/ ISO 7781 R : 1 - 5 %	HPT/C/SR/M OAC/36/2024		
37.			T : Soap content S : ASTM D5774/ ISO 7781 R : 0.01 - 5 %	HPT/C/SR/SC /37/2024		

Scheme Details: Mechanical – Rubber

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
38.	Mechanical- Rubber	Cured elastomeric compound	T : Hardness Shore A S : ASTM D 2240 /ISO 48-4 /IS 3400 (Part 23) R : 40 – 90 Shore A	HPT/M/CEC/ HS/38/2022	III	Mar-22
39.			T : Hardness IRHD S : ASTM D 1415 /ISO 48-2 /IS 3400 (Part 2) R : 40 – 90 IRHD	HPT/M/CEC/ HI/39/2022		
40.			T : Stress at 300% Elongation S : ASTM D412 /ISO 37 /IS 3400 (Part 1) R : 1 – 30MPa	HPT/M/CEC/ SE/40/2022	III	Mar-22
41.			Tensile Strength S : ASTM D412 /ISO 37 /IS 3400 (Part 1) 1 – 30MPa	HPT/M/CEC/ TS/41/2022		
42.			T : Breaking Elongation S : ASTM D412 /ISO 37 /IS 3400 (Part 1) R : 10 – 500%	HPT/M/CEC/ BE/42/2022		
43.			T : Tear Strength S : ASTM D 624/ ISO 34-1 / IS 3400 (Part 17) R : 10 – 100N/mm	HPT/M/CEC/ TS/43/2022		
44.			T : Rebound Resilience S : ASTM D 7121/ ISO 4662 / IS 3400 (Part 11) R : 10 – 90 %	HPT/M/CEC/ RR/44/2023	II	Mar-23
45.			T : Compression Set S : ASTM D 395 / ISO 815-1 / IS 3400 (Part 10) R : 10 – 70%	HPT/M/CEC/ CS/45/2023	II	May-23

Scheme Details: Mechanical – Rubber (Contd.)

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
46.	Mechanical- Rubber	Cured elastomeric compound	T : Density S : ISO 2781 / IS 3400 (Part 3) R : 0.90 – 2.0g/cc	HPT/M/CEC/ D/46/2023	III	Jul-23
47.			T : Abrasion Loss S : ISO 4649 / IS 3400 (Part 9) R : 10 – 300mm ³	HPT/M/CEC/ AL/47/2023		
48.			T : Abrasion Resistance Index S : ASTM D 5963/ ISO 4649 / IS 3400 (Part 9) R : 10 – 300%	HPT/M/CEC/ ARI/48/2023		
49.			T : Glass Transition Temperature S : ASTM D 5992 / ISO 4664-3 R : (-50) - 0 °C	HPT/M/CEC/ GTT/49/2023	IV	Sept-23
50.			T : Storage Modulus S : ASTM D 5992 / ISO 4664-1 R : 1 – 40MPa	HPT/M/CEC/ SM/50/2023		
51.			T : Loss Modulus S : ASTM D 5992 / ISO 4664-1 R : 1 – 40MPa	HPT/M/CEC/ LM/51/2023		
52.			T : Tan delta S : ASTM D 5992 / ISO 4664-1 R : 0.01 – 1.00	HPT/M/CEC/ TD/52/2023		
53.			T : Heat build up S : ASTM D623 / ISO4666-3 R : 1 - 40 °C	IHPT/M/CEC/ HBU/53/2022	II	July-22
54.			T : Ozone Resistance S : ASTM D1419 / ISO1431-1 / IS 3400 (Part XX) R : Qualitative	HPT/M/CEC/ OR/54/2022	II	Sept-22
55.		Raw Polymer	T : Mooney Viscosity S : ASTM D1646 / ISO 289-1 R : 20 – 100 Mooney Units	HPT/M/RP/M V/55/2022	II	June-22
56.		Uncured elastomeric compound	T : Minimum Torque S : ASTM D 5289 / ISO 6502 R : 1 – 15 lb-in	HPT/M/UEC/ MIT/56/2022	III	Oct-22
57.			T : Maximum Torque S : ASTM D 5289 / ISO 6502 R : 1 – 50 lb-in	HPT/M/UEC/ MT/57/2022		
58.			T : Scorch Time S : ASTM D 5289 / ISO 6502 R : 0.1 – 30 min	HPT/M/UEC/ ST/58/2022		
59.			T : Cure Time S : ASTM D 5289 / ISO 6502 R : 0.1 – 60 min	HPT/M/UEC/ CT/59/2022		
60.			T : Mooney Scorch S : ASTM D1646 / ISO 289-2 R : 1 – 50 min	HPT/M/UEC/ MS/60/2022		



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Scheme Details: Mechanical – Reinforcement

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule	
61.	Mechanical - Reinforcement	Textile (Dipped Fabric)	T : Breaking Strength (kgf) S : ASTM D885/D885M – 10a R : 5-100 kgf	HPT/M/T/BS /61/2022	III	Feb-22	
62.			T : Part Load Elongation at (6.8kg) (%) S : ASTM D885/D885M – 10a R : 1.0 – 20.0%	HPT/M/T/PL E/62/2022			
63.			T : Elongation @ Break (%) S : ASTM D885/D885M – 10a R : 1 -50%	HPT/M/T/EB /63/2022			
64.			T : Thermal Shrinkage (%) S : ASTM D4974-04 R : 0.5 – 10.0%	HPT/M/T/TS/ 64/2022	II		
65.		T : Cable Twist (TPM) S : ASTM D885/D885M – 10a R : 200-500TPM	HPT/M/T/CT /65/2022				
66.		Steel Tyre Cord	T : Breaking Strength (N) S : ASTM D2969-04 R : 100 – 5000 N	HPT/M/STC/ BS/66/2022	III		May-22
67.			T : Linear Density (g/m) S : ASTM D2969-04 R : 2.0 -25 g/m	HPT/M/STC/ LD/67/2022			
68.			T : Elongation at Break (%) S : ASTM D2969-04 R : 2 – 10 %	HPT/M/STC/ EB/68/2022			

Scheme Details: Chemical

Sl. No.	Program	Matrix	Proficiency Testing (PT) Scheme	PT Scheme No.	Price (Group)	Schedule
69.	Chemical	Coal*	T : Ash Content S : IS 1350-1 R : 1 – 50%	HPT/C/C/AC/ 69/2022	I	Jul-22
70.			T : Moisture Content S : IS 1350-1 R : 0.1 – 10%	HPT/C/C/MC/ 70/2022		
71.			T : Volatile matter S : IS 1350-1 R : 5 – 60%	HPT/C/C/VM/ 71/2022		
72.			T : Fixed carbon S : IS 1350-1 R : 10 – 100%	HPT/C/C/FC/ 72/2022		
73.			T : Calorific value S : IS 1350-2 R : 2500 – 6000KCal/Kg	HPT/C/C/CV/ 73/2022		

*Not covered under NABL Accredited scope.

T: Test Parameter

S: Standard Test method

R: Range



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Note: The minimum number of participants in the proficiency testing scheme shall be not less than expected number mentioned in the consent form. PTP conduct the Program only if the numbers of participants are either equal or above the minimum requirement. If your Laboratory is interested in participating any of the Proficiency Testing Scheme in the PT Calendar 2022-24, we request you to fill the details in the supplied registration form, scan it and send back to Quality Manager and concerned PT-Coordinator.

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 carrying 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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