

PROFICIENCY TESTING 2022

PT Schedule

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Chemical

NDT

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- Metals and Alloys
- Ferro Alloys
- NDT
- Ores and Minerals

- Paints
- Leather
- Rubber
- Coating
- Textile

- Metallography
- Water
- Biological
- Soil
- Corrosion



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Our New Scopes

- 01 Tiles
- 02 Concrete
- 03 Paver Block
- 04 Gypsum
- 05 Quartz
- 06 Soil-Chemical
- 07 Cupro- Nickel
- 08 Phthalates
- 09 Polymer-Chemical
- 10 Rubber-Chemical
- 11 Rebound Hammer
- 12 Lead Alloy

Group Wise detail of Participation Charges

Group	Participation Fees (INR)
A	10000/- + 1000 as Packing and Forwarding Charges + GST 18%
B	12000/- + 1000 as Packing and Forwarding Charges + GST 18%
C	14000/- + 1000 as Packing and Forwarding Charges + GST 18%
D	15000/- + 1000 as Packing and Forwarding Charges + GST 18%
E	8000/- + 1000 as Packing and Forwarding Charges + GST 18%

Metal & Alloys

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Ferrous- Chemical	7-8	√	√	√	√			√		√	√	√	√
Nonferrous- Chemical	7-8	√		√	√	√	√		√	√	√	√	√
Ferrous- Mechanical	9-11	√	√	√	√	√	√	√	√	√	√	√	√
Nonferrous- Mechanical	9-11	√			√			√		√			
Ferrous- NDT	22	√					√			√			√
Ferrous- Metallography	12	√	√	√	√		√	√	√	√	√	√	√
Ferro Alloys	18	√		√	√		√				√	√	

Building Materials

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Cement- Chemical	14-16	√		√			√	√		√		√	√
Cement- Mechanical	14-16	√		√	√		√			√	√		√
Aggregate- Chemical	14-16			√									√
Aggregate- Mechanical	14-16			√		√				√		√	
Tiles- Mechanical	14-16	√					√					√	
Concrete- Chemical	14-15	√									√		
Admixture	14-16			√				√				√	
Hydrated lime	15						√						
Concrete- Mechanical	14-15	√									√		
Concrete-NDT	22		√							√			
Paver Block	14-16	√					√						√
Fly ash – Chemical	14-15	√			√							√	
Fly ash – Mechanical	15-15	√								√			
Bitumen	14-15		√						√				

Soil & Rock

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Soil-Mechanical	19-20			√						√			

Ores & Minerals

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Bauxite	17		√						√				
Dolomite	17							√					√
Gypsum	17	√					√						
Iron Ore	17	√				√						√	
Lime Stone	17		√						√				
Manganese Ore	17							√					
Quartz	17				√								√
Rock Phosphate	17		√										
Feldspar	17				√						√		

Metallic Coating & Treatment Solutions

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Zinc Coating	13	√			√						√		
Silver Coating	13	√											√
Nickel Coating	13					√							

Solid Fuels

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Coal & Coke – Proximate	23		√		√		√		√		√		√
Coal & Coke – Ultimate	23				√						√		

Water

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Water	19-20	√		√			√	√			√		√
Construction Water	19-20			√							√		
Swimming Pool Water	19-20	√							√				
Residue in water	24		√									√	
Water-Biological	25		√			√			√	√		√	

Pollution & Environment

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Soil	19-20	√		√		√					√		√
Waste water/surface water	19-20	√	√			√	√			√		√	√

Paints & Enamels

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Enamel	28					√					√		
Painted Panels	28	√										√	

Corrosion Testing

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
IGC	13	√			√					√	√		
CASS test	13					√						√	
Salt Spray	13	√			√				√			√	

Rubber & Rubber Products

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Rubber- Mechanical	21	√			√						√		
Rubber- Chemical	21	√					√					√	

Plastic & Polymer

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Polymer- Mechanical	21				√		√				√	√	
Polymer- Chemical	21	√							√				

Textile & Textile Materials

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Textiles - Mechanical	26	√				√	√				√	√	
Textiles- Chemical	26	√					√	√			√		√

Hazardous Chemicals

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
ROHS	27	√					√				√		
Phthalates	27		√							√			
Total Concentration of Certain Elements	27		√						√				

Leather

Matrix	Page No.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Leather- Chemical	28	√			√							√	

Metal & Alloys

PT Scheme Name	PT Scheme Code	Analyts	Test Method (Suggested)	Schedule	Group INR
Chemical Composition of Lead Alloy	PTM/CHEM/31/18-19	Sb, As, Bi, Cu, Se, Sn,	Any Validated Method (OES)	Ongoing	D
Chemical Composition of Tool Steel	PTM/TOOL/59/2021	C, Cr, Cu, Mn, Mo, Ni, P, Si, S, W, V	Any Validated Method (OES)	Ongoing	B
Chemical Composition of Aluminium Alloy	PTM/ALA/19/2021	Si, Fe, Cu, Mn, Mg, Cr, Zn, Ti	ASTM E 1251 /IS 11035/ Any Validated Method	Ongoing	A
Chemical Composition of Zinc Alloy	PTM/ZNA/60/2021	Al, Mg, Cu, Ni, Fe, Sn, Sb	Any Validated Method (OES)	Ongoing	B
Chemical Composition of Low Alloy Steel	PTM/LAS/239/2021	C, Si, Mn, S, P, Cr, Ni, Mo, Cu	ASTM E415/ IS 8811/IS 228/ ASTM E350/ ANY VALIDATED METHOD	Jan-22	A
Chemical Composition of Nickel Alloy	PTM/NI/202/2021	C, Si, S, P, Mn, Cr, V, Cu, Ti, Fe	ANY VALIDATED INSTRUMENTAL METHOD	Jan-22	B
Chemical Composition of Steel	PTM/MS/244/2021	C, Si, Mn, S, P	ASTM E415/ IS 8811/IS 228/ ASTM E350/ ANY VALIDATED METHOD	Feb-22	E
Chemical Composition of Stainless Steel	PTM/SS/14/2022	C, Si, Mn, S, P, Ni, Mo, Cr, V	ASTM E1086/IS-9879/Any Validated Method (OES)	Feb-22	A
Chemical Composition of Cast Iron	PTM/CI/29/2021	Cr, Cu, C, Si, Mn, P, S, Ni, Mo	ASTM E1999/Any Validated Method (OES)	Mar-22	A
Chemical Composition of Brass Alloy	PTM/BA/24/2021	Cu, Mn, Pb, Fe, Al, Zn, Sn	BS EN 15079/ Any Validated Method (OES)	Mar-22	A
Chemical Composition of High Carbon High Chromium Steel	PTM/CHEM/44/19-20	C, Si, Mn, S, P, Cr, Ni, Mo, Cu, Co, Nb, V, W	Any Validated Method (OES)	Mar-22	A
Chemical Composition of Cupro Nickel	PTM/CN/84/2020	Fe, Ni, Cr, Mn, Cu, Al	Any Instrumental Method	Apr-22	B
Chemical Composition of Low Alloy Steel	PTM/LAS/238/2021	C, Si, Mn, S, P, Cr, Ni, Mo, Cu	ASTM E415/ IS 8811/IS 228/ ASTM E350/ ANY VALIDATED METHOD	Apr-22	A
Chemical Composition of Stainless Steel	PTM/SS/15/2022	C, Si, Mn, S, P, Ni, Mo, Cr, V	ASTM E1086/IS-9879/Any Validated Method (OES)	Apr-22	A
Chemical Composition of Bronze	PTM/BA/26/2021	Cu, Mn, Pb, Fe, Al, Zn, Sn	BS EN 15079/ Any Validated Method (OES)	May-22	A
Chemical Composition of Copper Alloy	PTM/CUA/08/2022	As, Cr, Cu, Ni, P, Si, S, Zn, Zr	BS/EN 15079/ Any Validated Method (OES)	May-22	B
Chemical Composition of Aluminium Alloy	PTM/ALA/01/2022	Si, Fe, Cu, Mn, Mg, Cr, Zn, Ti	ASTM E 1251 /IS 11035/ Any Validated Method	Jun-22	A
Chemical Composition of Lead Alloy	PTM/LA/23/2022	Sn, Sb, As, Cd, Ag, Bi, Ca	Any Validated Method (OES)	Jun-22	D
Chemical Composition of Zinc Alloy	PTM/ZNA/206/2021	Al, Mg, Cu, Ni, Fe, Sn, Sb	Any Validated Method (OES)	Jun-22	B
Chemical Composition of Low Alloy Steel	PTM/LAS/10/2022	C, Si, Mn, S, P, Cr, Ni, Mo, Cu	ASTM E415/ IS 8811/IS 228/ ASTM E350/ ANY VALIDATED METHOD	Jul-22	A
Chemical Composition of Stainless Steel	PTM/SS/16/2022	C, Si, Mn, S, P, Ni, Mo, Cr, V	ASTM E1086/IS-9879/Any Validated Method (OES)	Jul-22	A

PT Scheme Name	PT Scheme Code	Analyts	Test Method (Suggested)	Schedule	Group INR
Chemical Composition of Nickel Alloy	PTM/NIA/13/2022	C, Si, S, P, Mn, Cr, V, Cu, Ti, Fe	ANY VALIDATED INSTRUMENTAL METHOD	Aug-22	B
Chemical Composition of Cupro Nickel	PTM/CN/204/2021	Fe, Ni, Cr, Mn, Cu, Al	Any Instrumental Method	Sep-22	B
Chemical Composition of Cast Iron	PTM/CI/05/2022	Cr, Cu, C, Si, Mn, P, S, Ni, Mo	ASTM E1999/Any Validated Method (OES)	Sep-22	A
Chemical Composition of Stainless Steel	PTM/SS/17/2022	C, Si, Mn, S, P, Ni, Mo, Cr, V	ASTM E1086/IS-9879/Any Validated Method (OES)	Sep-22	A
Chemical Composition of Brass Alloy	PTM/BA/03/2022	Cu, Mn, Pb, Fe, Al, Zn, Sn	BS EN 15079/ Any Validated Method (OES)	Oct-22	A
Chemical Composition of Low Alloy Steel	PTM/LAS/11/2022	C, Si, Mn, S, P, Cr, Ni, Mo, Cu	ASTM E415/ IS 8811/IS 228/ ASTM E350/ ANY VALIDATED METHOD	Oct-22	A
Chemical Composition of Steel	PTM/MSTEEL/07/2022	C, Si, Mn, S, P	ASTM E415/ IS 8811/IS 228/ ASTM E350/ ANY VALIDATED METHOD	Oct-22	E
Chemical Composition of Tool Steel	PTM/TOOL/19/2022	C, Si, Mn, S, P, Ni, Mo, Cr, V, Cu, W	Any Validated Method (OES)	Oct-22	B
Chemical Composition of Aluminium Alloy	PTM/ALA/02/2022	Si, Fe, Cu, Mn, Mg, Cr, Zn, Ti	ASTM E 1251 /IS 11035/ Any Validated Method	Nov-22	A
Chemical Composition of Bronze	PTM/BRONZE/22/2022	Cu, Mn, Pb, Fe, Al, Zn, Sn	BS EN 15079/ Any Validated Method (OES)	Nov-22	A
Chemical Composition of Stainless Steel	PTM/SS/18/2022	C, Si, Mn, S, P, Ni, Mo, Cr, V	ASTM E1086/IS-9879/Any Validated Method (OES)	Dec-22	A
Chemical Composition of Copper Alloy	PTM/CUA/09/2022	Sb, Be, Cr, Co, Cu, Fe, Ni, Si, Zr	BS/EN 15079/ Any Validated Method (OES)	Dec-22	B
Chemical Composition of Lead Alloy	PTM/LA/24/2022	Sn, Sb, As, Cd, Ag, Bi, Ca	Any Validated Method (OES)	Dec-22	D
Chemical Composition of Low Alloy Steel	PTM/LAS/12/2022	C, Si, Mn, S, P, Cr, Ni, Mo, Cu	ASTM E415/ IS 8811/IS 228/ ASTM E350/ ANY VALIDATED METHOD	Dec-22	A

Mechanical Properties of Metals

PT Scheme Name	PT Scheme Code	Analys	Test Method (Suggested)	Schedule	Group INR
Charpy Impact Testing of Steel (V Notch)	PTM/CVN/18/2021	Charpy Impact Testing of Steel (V Notch) at Room Temperature	ASTM A370/ASTM E23/ISO 148-1/IS 1757-1	Ongoing	C
Vickers Hardness of Steel (HV 0.5)- Low Range	PTM/HV0.5/169/2021	Vickers Hardness Number (HV-0.5)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 384	Ongoing	A
Vickers Hardness of Steel (HV 1)	PTM/HV1/172/2021	Vickers Hardness Number (HV-1)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 384	Ongoing	A
Rockwell hardness Number (HRC)- Middle Range	PTM/HRC/149/2021	Rockwell Hardness Number (HRC)	IS 1586 (P-1)/ ISO 6508- 1/ASTM E18	Ongoing	A
Mechanical Properties of High Strength Deformed Steel Bars	PTM/TMT/95/2021	Ultimate Tensile Strength, Upper Yield Stress, Elongation, Mass/Meter Run	IS 1608 (P-1), IS 1786	Ongoing	B
Brinell Hardness of Steel (5/750)	PTM/HBW5/16/2021	Brinell Hardness Number (HBW 5/750)	IS 1500 (P-1)/ISO 6506- 1/ASTM E10	Ongoing	A
Proficiency Testing on Bend Test	PTM/BEND/106/2021	Bend Test	IS 1599/ISO- 7438/ASTM E290	Ongoing	A
Brinell Hardness of Steel (10/3000)- Middle Range	PTM/HBW10/230/2021	Brinell Hardness Number (HBW 10/3000)	IS 1500 (P-1)/ISO 6506- 1/ASTM E10	Ongoing	B
Tensile Properties of Aluminium Sheet	PTM/ATS/05/21	Ultimate Tensile Strength, Upper Yield Stress, Elongation	IS:1608 (P-1)/ISO 6892-1/ASTM A370/ASTM E8	Ongoing	B
Brinell Hardness of Steel (2.5/187.5)- High Range	PTM/HBW2.5/13/2021	Brinell Hardness Number (HBW 2.5/187.5)	IS 1500 (P-1)/ISO 6506- 1/ASTM E10	Jan-22	A
Tensile Properties of Steel (IS/ISO Method) (Round Shape - 300 mm Length)	PTM/TS/235/2021	Ultimate Tensile Strength, Yield Strength, Elongation (After Fracture), Reduction Area	IS:1608 (P-1)/ISO 6892-1	Jan-22	B
Vickers Hardness of Steel (HV 5)- Low Range	PTM/HV5/177/2021	Vickers Hardness Number (HV-5)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 92	Jan-22	A
Rockwell Hardness Number (HRBW)- High Range	PTM/HRBW/59/2022	Rockwell Hardness Number (HRBW)	IS 1586 (P-1)/ ISO 6508- 1/ASTM E18	Feb-22	A
Vickers Hardness of Steel (HV 10)- Middle Range	PTM/HV10/174/2021	Vickers Hardness Number (HV-10)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 92	Feb-22	A
Charpy Impact Testing of Steel (V Notch)	PTM/CVN/234/2021	Charpy Impact Testing of Steel (V Notch) at 0°	ASTM A370/ASTM E23/ISO 148-1/IS 1757-1	Mar-22	C
Mechanical Properties of High Strength Deformed Steel Bars	PTM/TMT/34/2022	Ultimate Tensile Strength, Upper Yield Stress, Elongation, Mass/Meter Run	IS 1608 (P-1), IS 1786	Mar-22	B
Proficiency Testing on Surface Roughness	PTM/SR/193/2021	Surface Roughness	IS 3073	Mar-22	D
Rockwell Hardness Number (HR30N)	PTM/HR30N/83/2020	Rockwell Hardness Number (HR30N)	IS 1586 (P-1)/ ISO 6508- 1/ASTM E18	Mar-22	A
Rockwell hardness Number (HRC)- Low Range	PTM/HRC/63/2022	Rockwell Hardness Number (HRC)	IS 1586 (P-1)/ ISO 6508- 1/ASTM E18	Mar-22	A
Tensile Properties of Flat steel Dumble	PTM/FTS/154/2021	Ultimate Tensile Strength, Elongation, Upper Yield Strength	IS:1608 (P-1)/ISO 6892-1	Mar-22	B
Brinell Hardness of Steel (5/750)- High Range	PTM/HBW5/750/46/2022	Brinell Hardness Number (HBW 5/750)	IS 1500 (P-1)/ISO 6506- 1/ASTM E10	Apr-22	A

PT Scheme Name	PT Scheme Code	Analys	Test Method (Suggested)	Schedule	Group INR
Izod Impact Testing	PTM/IZOD/82/2021	Izod Testing at Room Temperature	ASTM A370/ASTM E23/IS 1598	Apr-22	C
Proficiency Testing on Bend Test	PTM/BEND/42/2022	Bend Test	IS 1599/ISO-7438/ASTM E290	Apr-22	A
Rockwell Hardness Number (HRA)- Middle Range	PTM/HRA/141/2021	Rockwell Hardness Number (HRA)	IS 1586 (P-1)/ ISO 6508-1/ ASTM E18	Apr-22	A
Tensile Properties of CRC Sheet	PTM/TSCRC/152/2021	Ultimate Tensile Strength, Yield Strength, Elongation	IS 1608 (P-1)/ISO 6892-1/ASTM A370/ASTM E8	Apr-22	B
Tensile Properties of Steel (ASTM Method)-Round Bar	PTM/TS/25/2022	Ultimate Tensile Strength, Yield Strength, Elongation	ASTM A370/ASTM E8	Apr-22	B
Tensile Properties on Aluminium Alloy- ASTM Round Bar	PTM/TSA/166/2022	Tensile Strength, Yield Strength, Elongation	ASTM B557/ ASTM E8	Apr-22	B
Vickers Hardness of Steel (HV 5)- Middle Range	PTM/HV5/176/2021	Vickers Hardness Number (HV-5)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 92	Apr-22	A
Vickers Hardness of Steel (HV 1)- Low Range	PTM/HV1/50/2022	Vickers Hardness Number (HV-1)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 384	Apr-22	A
Brinell Hardness of Steel (10/3000)- Middle Range	PTM/HBW10/3000/47/2022	Brinell Hardness Number (HBW 10/3000)	IS 1500 (P-1)/ISO 6506- 1/ASTM E10	May-22	B
Rockwell Hardness Number (HRBW)- Middle Range	PTM/HRBW/60/2022	Rockwell Hardness Number (HRBW)	IS 1586 (P-1)/ ISO 6508- 1/ASTM E18	May-22	A
Tensile Properties of Steel (IS/ISO Method)-Round Bar	PTM/TS/29/2022	Ultimate Tensile Strength, Yield Strength, Elongation (After Fracture)	IS:1608 (P-1)/ISO 6892-1	May-22	B
Vickers Hardness of Steel (HV 30)- Low Range	PTM/HV30/54/2022	Vickers Hardness Number (HV-30)	IS 1501 (P-1)/ ISO 6507- 1/ASTM E 92	May-22	A
Rockwell hardness Number (HRC)- High Range	PTM/HRC/64/2022	Rockwell Hardness Number (HRC)	IS 1586 (P-1)/ ISO 6508- 1/ASTM E18	Jun-22	A
Vickers Hardness of Steel (HV 0.1)- Middle Range	PTM/HV0.1/167/2021	Vickers Hardness Number (HV-0.1)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 384	Jun-22	A
Charpy Impact Testing of Steel (V Notch)	PTM/CVN/38/2022	Charpy Impact Testing of Steel (V Notch) at Room Temperature	ASTM A370/ASTM E23/ISO 148-1/IS 1757-1	Jul-22	C
Mechanical Properties of High Strength Deformed Steel Bars	PTM/TMT/35/2022	Ultimate Tensile Strength, Upper Yield Stress, Elongation, Mass/Meter Run	IS 1608 (P-1), IS 1786	Jul-22	B
Tensile Properties of Aluminium Sheet	PTM/TSALS/151/2021	Ultimate Tensile Strength, Upper Yield Stress, Elongation	IS:1608 (P-1)/ISO 6892-1/ASTM A370/ASTM E8	Jul-22	B
Vickers Hardness of Steel (HV 10)- High Range	PTM/HV10/52/2022	Vickers Hardness Number (HV-10)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 92	Jul-22	A
Rockwell Hardness Number (HRBW)- Low Range	PTM/HRBW/61/2022	Rockwell Hardness Number (HRBW)	IS 1586 (P-1)/ ISO 6508- 1/ASTM E18	Aug-22	A
Tensile Properties of Steel (ASTM Method)-Round Bar	PTM/TS/26/2022	Ultimate Tensile Strength, Yield Strength, Elongation	ASTM A370/ASTM E8	Aug-22	B
Vickers Hardness of Steel (HV 0.5)- Low Range	PTM/HV0.5/170/2021	Vickers Hardness Number (HV-0.5)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 384	Aug-22	A
Brinell Hardness of Steel (10/3000)- High Range	PTM/HBW10/3000/48/2022	Brinell Hardness Number (HBW 10/3000)	IS 1500 (P-1)/ISO 6506- 1/ASTM E10	Sep-22	B
Brinell Hardness of Steel (5/750)- Middle Range	PTM/HBW5/750/45/2022	Brinell Hardness Number (HBW 5/750)	IS 1500 (P-1)/ISO 6506- 1/ASTM E10	Sep-22	A
Proficiency Testing on Bend Test	PTM/BEND/43/2022	Bend Test	IS 1599/ISO-7438/ASTM E290	Sep-22	A

PT Scheme Name	PT Scheme Code	Analys	Test Method (Suggested)	Schedule	Group INR
Rockwell hardness Number (HRC)- Middle Range	PTM/HRC/65/2022	Rockwell Hardness Number (HRC)	IS 1586 (P-1)/ ISO 6508- 1/ASTM E18	Sep-22	A
Tensile Properties of Steel (IS/ISO Method)-Round Bar	PTM/TS/30/2022	Ultimate Tensile Strength, Yield Strength, Elongation (After Fracture)	IS:1608 (P-1)/ISO 6892-1	Sep-22	B
Tensile Properties on Alluminium Alloy-Round Bar	PTM/TSAL/163/2021	Tensile Strength, Yield Strength, Elongation	IS:1608 (P-1)/ISO 6892-1	Sep-22	B
Vickers Hardness of Steel (HV 5)- High Range	PTM/HV5/178/2022	Vickers Hardness Number (HV-5)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 92	Sep-22	A
Brinell Hardness of Steel (2.5/187.5)- Low Range	PTM/HBW2.5/187.5/44/2022	Brinell Hardness Number (HBW 2.5/187.5)	IS 1500 (P-1)/ISO 6506- 1/ASTM E10	Oct-22	A
Charpy Impact Testing of Steel (V Notch)	PTM/CVN/37/2022	Charpy Impact Testing of Steel (V Notch) at 0°	ASTM A370/ASTM E23/ISO 148-1/IS 1757-1	Oct-22	C
Tensile Properties of Flat steel Dumble	PTM/FTS/155/2021	Ultimate Tensile Strength, Elongation, Upper Yield Strength	IS:1608 (P-1)/ISO 6892-1	Oct-22	B
Vickers Hardness of Steel (HV 30)- High Range	PTM/HV30/55/2022	Vickers Hardness Number (HV-30)	IS 1501 (P-1)/ ISO 6507- 1/ASTM E 92	Oct-22	A
Izod Impact Testing	PTM/IZOD/40/2022	Izod Testing at Room Temperature	ASTM A370/ASTM E23/IS 1598	Nov-22	C
Mechanical Properties of High Strength Deformed Steel Bars	PTM/TMT/36/2022	Ultimate Tensile Strength, Upper Yield Stress, Elongation, Mass/Meter Run	IS 1608 (P-1), IS 1786	Nov-22	B
Rockwell Hardness Number (HRA)- High Range	PTM/HRA/57/2022	Rockwell Hardness Number (HRA)	IS 1586 (P-1)/ ISO 6508-1/ ASTM E18	Nov-22	A
Rockwell Hardness Number (HRBW)- Middle Range	PTM/HRBW/62/2022	Rockwell Hardness Number (HRBW)	IS 1586 (P-1)/ ISO 6508- 1/ASTM E18	Nov-22	A
Tensile Properties of CRC Sheet	PTM/TSCRC/153/2021	Ultimate Tensile Strength, Yield Strength, Elongation	IS 1608 (P-1)/ISO 6892-1/ASTM A370/ASTM E8	Nov-22	B
Vickers Hardness of Steel (HV 1)- High Range	PTM/HV1/51/2022	Vickers Hardness Number (HV-1)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 384	Nov-22	A
Charpy Impact Testing of Steel (V Notch)	PTM/CVN/39/2022	Charpy Impact Testing of Steel (V Notch) at Room Temperature	ASTM A370/ASTM E23/ISO 148-1/IS 1757-1	Dec-22	C
Rockwell hardness Number (HRC)- Low Range	PTM/HRC/66/2022	Rockwell Hardness Number (HRC)	IS 1586 (P-1)/ ISO 6508- 1/ASTM E18	Dec-22	A
Tensile Properties of Steel (ASTM Method)-Round Bar	PTM/TS/27/2022	Ultimate Tensile Strength, Yield Strength, Elongation	ASTM A370/ASTM E8	Dec-22	B
Vickers Hardness of Steel (HV 10)- Low Range	PTM/HV10/53/2022	Vickers Hardness Number (HV-10)	IS 1501 (P-1)/ ISO 6507-1/ASTM E 92	Dec-22	A
Brinell Hardness of Steel (10/3000)- Middle Range	PTM/HBW10/3000/167/2022	Brinell Hardness Number (HBW 10/3000)	IS 1500 (P-1)/ISO 6506- 1/ASTM E10	Dec-22	B

Metallography

PT Scheme Name	PT Scheme Code	Analys	Test Method (Suggested)	Schedule	Group INR
Microstructure of Ferrous/Non-Ferrous Alloy	PTM/MS/227/2021	Microstructure(100X)	ASM-9 Handbook/ ANY VALIDATED EQUIVALENT METHOD	Ongoing	B
Determination of Case Depth	PTM/CD/226/2021	Cash Depth	IS 6416	Jan-22	B
DETERMINATION OF NONMETALLIC INCLUSIONS IN STEEL	PTM/IRF/200/2021	Inclusion Rating (at 100 X)	IS 4163/ISO 4967	Jan-22	A
Determination of Apparent Grain Size	PTM/GS/75/2021	Average Grain Size Number	IS 4748/ASTM E112	Feb-22	B
Microstructure of Cast Iron (NODULAR)	PTM/MSN/228/2021	Graphite Type, Graphite Size Class, Nodule Count, Nodularity	ASTM A 247	Feb-22	B
Microstructure of Ferrous/Non-Ferrous Alloy	PTM/MS/69/2022	Microstructure(100X)	ASM-9 Handbook/ ANY VALIDATED EQUIVALENT METHOD	Mar-22	B
Determination of The Apparent Grain Size (SS)	PTM/GSSS/78/2021	Average Grain Size Number	IS 4748/ASTM E112	Apr-22	B
Proficiency Testing of Depth of Decarburization in Steel	PTM/DD/180/2022	Depth of Decarb	IS 6396/ ISO 3887/ Any Validated Method	Apr-22	B
Determination of Case Depth	PTM/CD/67/2022	Cash Depth	IS 6416	Jun-22	B
DETERMINATION OF NONMETALLIC INCLUSIONS IN STEEL	PTM/IRF/77/2022	Inclusion Rating (at 100 X)	IS 4163/ISO 4967	Jul-22	A
Microstructure of Ferrous/Non-Ferrous Alloy	PTM/MS/70/2022	Microstructure(100X)	ASM-9 Handbook/ ANY VALIDATED EQUIVALENT METHOD	Aug-22	B
Determination of Apparent Grain Size	PTM/GS/72/2022	Average Grain Size Number	IS 4748/ASTM E112	Sep-22	B
Microstructure of Cast Iron (NODULAR)	PTM/MSN/68/2022	Graphite Type, Graphite Size Class, Nodule Count, Nodularity	ASTM A 247	Sep-22	B
Determination of Case Depth	PTM/CD/179/2022	Cash Depth	IS 6416	Oct-22	B
Determination of The Apparent Grain Size (SS)	PTM/GSSS/74/2022	Average Grain Size Number	IS 4748/ASTM E112	Nov-22	B
Microstructure of Ferrous/Non-Ferrous Alloy	PTM/MS/71/2022	Microstructure(100X)	ASM-9 Handbook/ ANY VALIDATED EQUIVALENT METHOD	Dec-22	B

Coating & Corrosion

PT Scheme Name	PT Scheme Code	Analyts	Test Method (Suggested)	Schedule	Group INR
Proficiency Testing on Salt Spray Test	PTM/NSS/130/2021	Natural Salt Spray Test	ASTM B117/ISO 9227	Ongoing	D
Proficiency Testing on Zinc Coating	PTM/MC/136/2021	Coating Thickness, Mass of Zinc Coating	IS 6745/ASTM E376/Any Validated Test Method	Ongoing	D
INTERGRANULAR CORROSION TEST (PRACTICE E)	PTM/GC/03/21	Oxalic Acid Etch Test for Classification of Etch Structure of Austenitic Stainless Steel	ASTM A262 (PRACTICE E)	Jan-22	D
Proficiency Testing on Silver Coating	PTM/CHEM/03/18-19	Coating Thickness	Any Validated Test Method	Jan-22	D
INTERGRANULAR CORROSION TEST (PRACTICE A)	PTM/IGC/79/2021	Oxalic Acid Etch Test for Classification of Etch Structure of Austenitic Stainless Steel	ASTM A262 (PRACTICE A)	Apr-22	B
INTERGRANULAR CORROSION TEST (PRACTICE E)	PTM/IGC/81/2021	Oxalic Acid Etch Test for Classification of Etch Structure of Austenitic Stainless Steel	ASTM A262 (PRACTICE E)	Apr-22	D
Proficiency Testing on Salt Spray Test	PTM/NSS/79/2022	Natural Salt Spray Test	ASTM B117/ISO 9227	Apr-22	D
Proficiency Testing on Zinc Coating	PTM/MC/81/2022	Coating Thickness, Mass of Zinc Coating	IS 6745/ASTM E376/Any Validated Test Method	Apr-22	D
Proficiency Testing on CASS Test	PTM/CASS/213/2021	CASS	ASTM B117	May-22	D
Proficiency Testing on Nickel Coating	PTM/NIC/195/2021	Coating Thickness (Ni)	ASTM E376	May-22	D
Proficiency Testing on Salt Spray Test	PTM/NSS/80/2022	Natural Salt Spray Test	ASTM B117/ISO 9227	Aug-22	D
INTERGRANULAR CORROSION TEST (PRACTICE E)	PTM/IGC-E/76/2022	Oxalic Acid Etch Test for Classification of Etch Structure of Austenitic Stainless Steel	ASTM A262 (PRACTICE E)	Sep-22	D
INTERGRANULAR CORROSION TEST (PRACTICE A)	PTM/IGC-A/75/2022	Oxalic Acid Etch Test for Classification of Etch Structure of Austenitic Stainless Steel	ASTM A262 (PRACTICE A)	Oct-22	B
Proficiency Testing on Zinc Coating	PTM/MC/82/2022	Coating Thickness, Mass of Zinc Coating	IS 6745/ASTM E376/Any Validated Test Method	Oct-22	D
Proficiency Testing on CASS Test	PTM/CASS/85/2022	CASS	ASTM B117	Nov-22	D
Proficiency Testing on Salt Spray Test	PTM/NSS/181/2022	Natural Salt Spray Test	ASTM B117/ISO 9227	Nov-22	D
Proficiency Testing on Silver Coating	PTM/SC/83/2022	Coating Thickness	Any Validated Test Method	Dec-22	D

Building Materials

PT Scheme Name	PT Scheme Code	Analys	Test Method (Suggested)	Schedule	Group INR
Mechanical properties of Cement (OPC)	PTB/OPCM/86/2021	Fineness Blaine, Setting Time (Initial & Final), Compressive Strength, Le-Chatelier Expansion	IS 4031	Ongoing	A
Mechanical Properties of Pozzolanic Materials (FLY ASH)	PTB/MECH/02/19-20	Retention on 45 µm Sieve, Blain Fineness, Compression Strength, Lime Reactivity	IS 1727	Ongoing	A
Chemical Composition of Fly ash	PTB/FAC/42/2021	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , SO ₃ , Na ₂ O, K ₂ O, Cl	IS 1727/ASTM C114	Ongoing	E
Proficiency Testing on Paver Block	PTB/PB/212/2021	Compressive Strength, Water Absorption	IS 15658	Ongoing	A
Chemical Properties of Cement (PPC)	PTB/PPCC/64/2021	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃	IS 4032/ ASTM C114/ BS EN 196	Ongoing	E
Proficiency Testing on Concrete	PTB/CC/208/2021	Compressive Strength, Sulphate (as SO ₃), Water Soluble Chlorides	IS 516, IS 2317/BS 1881 (P-124), IS 14959 (P-1)/IS 14959 (P-2)	Jan-22	B
Proficiency Testing on Tiles	PTB/TILES/211/2021	Flatness, Dimension, Straightness, Wet Transverse Strength, Water Absorption, Scratch Hardness, Chemical Resistance	IS 13630	Jan-22	B
Proficiency Testing on Bitumen	PTB/BITUMEN/107/2021	Penetration, flash point, Specific Gravity, Softening Point, Viscosity, Ductility Test	IS 1203, IS 1209, IS 1202, IS 1205, IS 1206(P-3), IS 1208	Feb-22	A
Chemical Properties of Aggregates	PTB/CA/210/2021	Sulphate, Water Soluble Chlorides	IS 4032 , IS 14959 (P-2)	Mar-22	E
Chemical Properties of Cement (OPC)	PTB/OPCC/116/2022	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , IR, SO ₃ , Fe ₂ O ₃ ,	IS 4032/ ASTM C114/ BS EN 196	Mar-22	E
Chemical Testing of Concrete Admixture	PTB/ADMC/243/2021	Dry Material Content, Ash Content, pH, Chloride ion content	IS 9103: 1999, IS 6925: 1993	Mar-22	E
Mechanical properties of Cement (PPC)	PTB/PPCM/89/2021	Fineness Blaine, Setting Time (Initial & Final), Compressive Strength, Le-Chatelier Expansion	IS 4031	Mar-22	A
MECHANICAL PROPERTIES OF COARSE AGGREGATES	PTB/CA/107/2022	Specific Gravity, Water Absorption, Flakiness Index, Elongation Index, Sieve Analysis	IS 2386	Mar-22	A
Chemical Composition of Fly ash	PTB/FAC/125/2022	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , SO ₃ , Na ₂ O, K ₂ O, Cl	IS 1727/ASTM C114	Apr-22	E
Mechanical properties of Cement (OPC)	PTB/OPCM/87/2021	Fineness Blaine, Setting Time (Initial & Final), Compressive Strength, Le-Chatelier Expansion	IS 4031	Apr-22	A
MECHANICAL PROPERTIES OF FINE AGGREGATES	PTB/FA/109/2022	Specific Gravity, Water Absorption, Bulk Density, Elongation Index, Sieve Analysis	IS 2386	May-22	A
Chemical Properties of Cement (OPC)	PTB/OPCC/117/2022	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , IR, SO ₃ , Fe ₂ O ₃ ,	IS 4032/ ASTM C114/ BS EN 196	Jun-22	E

PT Scheme Name	PT Scheme Code	Analysts	Test Method (Suggested)	Schedule	Group INR
Chemical Properties of Cement (PSC)	PTB/PSCC/66/2021	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃	IS 4032/ ASTM C114/ BS EN 196	Jun-22	A
Mechanical properties of Cement (PSC)	PTB/PSCM/90/2021	Fineness Blaine, Setting Time (Initial & Final), Compressive Strength, Le-Chatelier Expansion	IS 4031	Jun-22	A
Proficiency Testing on Hydrated Lime	PTB/CHEM/21/17-18	CaO, MgO, SiO ₂ , Residue on 212 μ IS Sieve	IS 6932	Jun-22	A
Proficiency Testing on Paver Block	PTB/PB/114/2022	Compressive Strength, Water Absorption	IS 15658	Jun-22	A
Proficiency Testing on Tiles	PTB/TILES/113/2022	Flatness, Dimesion, Straightness, Wet Transverse Strength, Water Absorption, Scratch Hardness, Chemical Resistance	IS 13630	Jun-22	B
Chemical Properties of Cement (PPC)	PTB/PPCC/119/2022	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃	IS 4032/ ASTM C114/ BS EN 196	Jul-22	E
Chemical Testing of Concrete Admixture	PTB/ADMC/106/2022	Dry Material Content, Ash Content, pH, Chloride ion content	IS 9103: 1999, IS 6925: 1993	Jul-22	E
Proficiency Testing on Bitumen	PTB/BITUMEN/115/2022	Penetration, flash point, Specific Gravity, Softening Point, Viscosity, Ductility Test	IS 1203, IS 1209, IS 1202, IS 1205, IS 1206(P-3), IS 1208	Aug-22	A
Chemical Properties of Cement (OPC)	PTB/OPCC/118/2022	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , IR, SO ₃ , Fe ₂ O ₃	IS 4032/ ASTM C114/ BS EN 196	Sep-22	E
Mechanical properties of Cement (PPC)	PTB/PPCM/123/2022	Fineness Blaine, Setting Time (Initial & Final), Compressive Strength, Le-Chatelier Expansion	IS 4031	Sep-22	A
MECHANICAL PROPERTIES OF COARSE AGGREGATES	PTB/CA/108/2022	Specific Gravity, Water Absorption, Flakiness Index, Elongation Index, Sieve Analysis	IS 2386	Sep-22	A
Mechanical Properties of Pozzolan Materials (FLY ASH)	PTB/FAM/127/2022	Retention on 45 μ m Sieve, Blain Fineness, Compression Strength, Lime Reactivity	IS 1727	Sep-22	A
Mechanical properties of Cement (OPC)	PTB/OPCM/122/2022	Fineness Blaine, Setting Time (Initial & Final), Compressive Strength, Le-Chatelier Expansion	IS 4031	Oct-22	A
Proficiency Testing on Concrete	PTB/CC/111/2022	Compressive Strength, Sulphate (as SO ₃), Water Soluble Chlorides	IS 516, IS 2317/BS 1881 (P-124), IS 14959 (P-1)/IS 14959 (P-2)	Oct-22	B
Chemical Composition of Fly ash	PTB/FAC/126/2022	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , SO ₃ , Na ₂ O, K ₂ O, Cl	IS 1727/ASTM C114	Nov-22	E

PT Scheme Name	PT Scheme Code	Analysts	Test Method (Suggested)	Schedule	Group INR
Chemical Properties of Cement (PSC)	PTB/PSCC/121/2022	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃	IS 4032/ ASTM C114/ BS EN 196	Nov-22	A
MECHANICAL PROPERTIES OF FINE AGGREGATES	PTB/FA/110/2022	Specific Gravity, Water Absorption, Bulk Density, Elongation Index, Sieve Analysis	IS 2386	Nov-22	A
Chemical Testing of Concrete Admixture	PTB/ADMC/184/2022	Dry Material Content, Ash Content, pH, Chloride ion content	IS 9103: 1999, IS 6925: 1993	Nov-22	E
Proficiency Testing on Tiles	PTB/TILES/185/2022	Flatness, Dimesion, Straightness, Wet Transverse Strength, Water Absorption, Scratch Hardness, Chemical Resisstance	IS 13630	Nov-22	B
Chemical Properties of Aggregates	PTB/CHEMA/112/2022	Sulphate, Water Soluble Chlorides	IS 4032, IS 14959 (P-2)	Dec-22	E
Chemical Properties of Cement (PPC)	PTB/PPCC/120/2022	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃	IS 4032/ ASTM C114/ BS EN 196	Dec-22	E
Mechanical properties of Cement (PSC)	PTB/PSCM/124/2022	Fineness Blaine, Setting Time (Initial & Final), Compressive Strength, Le-Chatelier Expansion	IS 4031	Dec-22	A
Proficiency Testing on Paver Block	PTB/PB/186/2022	Compressive Strength, Water Absorption	IS 15658	Dec-22	A

Ore & Minerals

PT Scheme Name	PT Scheme Code	Analyts	Test Method (Suggested)	Schedule	Group INR
Chemical Composition of Gypsum	PTO/GYP/43/2021	SiO ₂ , CaO, MgO, SO ₃ , Fe ₂ O ₃ , Al ₂ O ₃	IS 1288/Any Validated Test Method	Ongoing	E
Chemical Composition of Iron Ore	PTO/IO/240/2021	Fe, CaO, MgO, TiO ₂ , SiO ₂ , Al ₂ O ₃ , P	IS 1493/Any Equivalent Method	Ongoing	A
Chemical Composition of Bauxite	PTO/BX/203/2021	Al ₂ O ₃ , SiO ₂ , TiO ₂ , Fe ₂ O ₃ , P ₂ O ₅ , LOI	IS 2000/ Any Gravimetric/Instrumental Method	Feb-22	E
Chemical Composition of Lime Stone	PTO/LS/47/2021	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃	IS 1760 / Any Validated Test Method	Feb-22	A
Chemical Composition of Rock Phosphate	PTO/RP/91/2020	P ₂ O ₅ , SiO ₂ , Moisture, MgO, F, Organic Matter	Any Gravimetric/Instrumental Method	Feb-22	E
Chemical Composition of Quartz	PTO/QTZ/54/2021	LOI, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO	IS 1917/Any Validated Test Method	Apr-22	E
Proficiency Testing on Feldspar	PTO/FS/119/2021	LOI, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , K ₂ O, Na ₂ O, CaO, MgO	IS 9749/ Any Validated Method	Apr-22	E
Chemical Composition of Iron Ore	PTO/IO/139/2022	Fe, CaO, MgO, TiO ₂ , SiO ₂ , Al ₂ O ₃ , P	IS 1493/Any Equivalent Method	May-22	A
Chemical Composition of Gypsum	PTO/GYP/44/2021	SiO ₂ , CaO, MgO, SO ₃ , Fe ₂ O ₃ , Al ₂ O ₃	IS 1288/Any Validated Test Method	Jun-22	E
Chemical Composition of Manganese Ore	PTO/MO/247/2021	Fe, SiO ₂ , Al ₂ O ₃ , P, Mn, Trace Elements	Any Gravimetric/Instrumental Method	Jul-22	E
Proficiency Testing on Dolomite	PTO/DOL/135/2022	LOI, Silica, CaO, MgO, Alumina, Ferric Oxide	IS 1760 / Any Validated Test Method	Jul-22	E
Chemical Composition of Bauxite	PTO/BAUXITE/134/2022	Al ₂ O ₃ , SiO ₂ , TiO ₂ , Fe ₂ O ₃ , P ₂ O ₅ , LOI	IS 2000/ Any Gravimetric/Instrumental Method	Aug-22	E
Chemical Composition of Lime Stone	PTO/LS/48/2021	LOI, CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃	IS 1760 / Any Validated Test Method	Aug-22	A
Proficiency Testing on Feldspar	PTO/FS/187/2022	LOI, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , K ₂ O, Na ₂ O, CaO, MgO	IS 9749/ Any Validated Method	Oct-22	E
Chemical Composition of Iron Ore	PTO/IO/140/2022	Fe, CaO, MgO, TiO ₂ , SiO ₂ , Al ₂ O ₃ , P	IS 1493/Any Equivalent Method	Nov-22	A
Chemical Composition of Quartz	PTO/QTZ/55/2021	LOI, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO	IS 1917/Any Validated Test Method	Dec-22	E
Proficiency Testing on Dolomite	PTO/DOL/136/2022	LOI, Silica, CaO, MgO, Alumina, Ferric Oxide	IS 1760 / Any Validated Test Method	Dec-22	E

Ferro-Alloys

PT Scheme Name	PT Scheme Code	Analyts	Test Method (Suggested)	Schedule	Group INR
Chemical Composition of Ferro Chromium	PTO/FERROCR/32/2021	C, S, P, Si, Cr	IS 13452/Any Validated Test Method	Jan-22	B
Chemical Composition of Ferro Silicon	PTO/CHEM/61/19-20	C, P, Si, Al, Ca	IS 1559/Any Validated Test Method	Jan-22	B
Chemical Composition of Ferro Vanadium	PTO/FV/87/2020	V, Si, C, S, P, Al	IS 1466/Any Validated Method	Mar-22	B
Chemical Composition of Ferro Molybdenum	PTO/CHEM/24/19-20	C, S, P, Si, Cu, Al, Mo	IS 12614 / Any Validated Test Method	Apr-22	B
Chemical Composition of Ferro Titanium	PTO/FT/86/2020	Ti, C, Si, Al, Mn, P, S	IS 1468/Any Validated Method	Apr-22	B
Chemical Composition of Ferro Manganese	PTO/FMN/207/2021	C, S, P, Si, Mn	IS 1559/ IS 13938/ Any Validated Test Method	Jun-22	B
Chemical Composition of Ferro Silicon	PTO/FS/34/2020	C, P, Si, Al, Ca	IS 1559/Any Validated Test Method	Oct-22	B
Chemical Composition of Ferro Chromium	PTO/FERROCR/33/2021	C, S, P, Si, Cr	IS 13452/Any Validated Test Method	Nov-22	B
Chemical Composition of Ferro Molybdenum	PTO/FERROMO/35/2021	C, S, P, Si, Cu, Al, Mo	IS 12614 / Any Validated Test Method	Nov-22	B

Water

PT Scheme Name	PT Scheme Code	Analyts	Test Method (Suggested)	Schedule	Group INR
Metals in Soil	PTW/CHEM/81/19-20	Lead, Cadmium, Iron, Arsenic, Silver, Zinc, Copper, Nickel	Any Validated Method/ Instrumental Method	Ongoing	A
Analytical Quality Control (AQC/Water)-III	PTW/AQC-III/229/2021	pH at 27°C, Dissolved Oxygen, BOD, Nitrite, Phosphate, Chloride, Calcium, Magnesium.	IS 3025/APHA	Ongoing	B
Analytical Quality Control (AQC/Water)-I	PTW/AQC-I/03/2021	pH at 27°C, K, Ammoniacal Nitrogen, Total Kjeldahl Nitrogen, Na, Phosphate, BOD, COD, Nitrate, TDS	IS 3025/APHA	Ongoing	B
Metals in Water	PTW/MIW/100/2021	Cu, Cr, Fe, Mn, Ni, Pb, Zn, Al, Cd, Na, K, Mg	ICP/AAS Technique	Jan-22	B
Proficiency Testing on Swimming Pool Water	PTW/SPW/131/2021	pH at 270C, Total Alkalinity, Aluminium, Total Dissolved Solids, Chloride, Iron, Turbidity	IS 3025	Jan-22	B
Analytical Quality Control (AQC/Water)-III	PTW/AQC-III/92/2022	pH at 27°C, Dissolved Oxygen, BOD, Nitrite, Phosphate, Chloride, Calcium, Magnesium.	IS 3025/APHA	Feb-22	B
Analytical Quality Control (AQC/Water)-II	PTW/AQC-II/233/2021	pH at 27°C, Total Hardness, TDS, Chloride, Fluorides, Sulphate, Calcium, Magnesium, Boron, Hexavalent Chromium	IS 3025/APHA	Mar-22	B
Chemical Properties of Soil	PTW/SOIL/68/2021	pH, Sulphate, Chloride, Phosphorus, Calcium Carbonate, Sodium, Potassium	IS Method/Any Validated Method	Mar-22	A
Mechanical Properties of Soil	PTW/MSOIL/245/2021	Water Content- Dry Density Relation using Light Compaction (OMC & MDD), Water Content- Dry Density Relation using Heavy Compaction (OMC & MDD), California Bearing Ratio (Soaked)	IS: 2720 (P-VII), (P-VIII), (P-XVI)/ Any Equivalent Method	Mar-22	B
Proficiency Testing on Construction Water	PTW/CW/116/2021	pH at 27°C, Acidity, Alkalinity, Sulphate, Chloride, Inorganic Solids	IS 3025	Mar-22	B
Analytical Quality Control (AQC/Water)-I	PTW/AQC-I/86/2022	pH at 27°C, K, Ammoniacal Nitrogen, Total Kjeldahl Nitrogen, Na, Phosphate, BOD, COD, Nitrate, TDS	IS 3025/APHA	May-22	B
Metals in Soil	PTW/MSOIL/97/2021	Lead, Cadmium, Iron, Arsenic, Silver, Zinc, Copper, Nickel	Any Validated Method/ Instrumental Method	May-22	A
Analytical Quality Control (AQC/Water)-III	PTW/AQC-III/93/2022	pH at 27°C, Dissolved Oxygen, BOD, Nitrite, Phosphate, Chloride, Calcium, Magnesium.	IS 3025/APHA	Jun-22	B
Metals in Water	PTW/MIW/101/2021	Cu, Cr, Fe, Mn, Ni, Pb, Zn, Al, Cd, Na, K, Mg	ICP/AAS Technique	Jun-22	B
Analytical Quality Control (AQC/Water)-II	PTW/AQC-II/89/2022	pH at 27°C, Total Hardness, TDS, Chloride, Fluorides, Sulphate, Calcium, Magnesium, Boron, Hexavalent Chromium	IS 3025/APHA	Jul-22	B

PT Scheme Name	PT Scheme Code	Analysts	Test Method (Suggested)	Schedule	Group INR
Proficiency Testing on Swimming Pool Water	PTW/SPW/132/2021	pH at 270C, Total Alkalinity, Aluminium, Total Dissolved Solids, Chloride, Iron, Turbidity	IS 3025	Aug-22	B
Analytical Quality Control (AQC/Water)-I	PTW/AQC-I/87/2022	pH at 27°C, K, Ammoniacal Nitrogen, Total Kjeldahl Nitrogen, Na, Phosphate, BOD, COD, Nitrate, TDS	IS 3025/APHA	Sep-22	B
Mechanical Properties of Soil	PTW/MSOIL/132/2022	Water Content- Dry Density Relation using Light Compaction (OMC & MDD), Water Content- Dry Density Relation using Heavy Compaction (OMC & MDD), California Bearing Ratio (Soaked)	IS: 2720 (P-VII), (P-VIII), (P-XVI)/ Any Equivalent Method	Sep-22	B
Chemical Properties of Soil	PTW/SOILC/130/2022	pH, Sulphate, Chloride, Phosphorus, Calcium Carbonate, Sodium, Potassium	IS Method/Any Validated Method	Oct-22	A
Metals in Water	PTW/MIW/97/2022	Cu, Cr, Fe, Mn, Ni, Pb, Zn, Al, Cd, Na, K, Mg	ICP/AAS Technique	Oct-22	B
Proficiency Testing on Construction Water	PTW/CW/95/2022	pH at 27°C, Acidity, Alkalinity, Sulphate, Chloride, Inorganic Solids	IS 3025	Oct-22	B
Analytical Quality Control (AQC/Water)-III	PTW/AQC-III/94/2022	pH at 27°C, Dissolved Oxygen, BOD, Nitrite, Phosphate, Chloride, Calcium, Magnesium.	IS 3025/APHA	Nov-22	B
Analytical Quality Control (AQC/Water)-I	PTW/AQC-I/88/2022	pH at 27°C, K, Ammoniacal Nitrogen, Total Kjeldahl Nitrogen, Na, Phosphate, BOD, COD, Nitrate, TDS	IS 3025/APHA	Dec-22	B
Analytical Quality Control (AQC/Water)-II	PTW/AQC-II/90/2022	pH at 27°C, Total Hardness, TDS, Chloride, Fluorides, Sulphate, Calcium, Magnesium, Boron, Hexavalent Chromium	IS 3025/APHA	Dec-22	B
Metals in Soil	PTW/SOILM/131/2022	Lead, Cadmium, Iron, Arsenic, Silver, Zinc, Copper, Nickel	Any Validated Method/ Instrumental Method	Dec-22	A

Polymer

PT Scheme Name	PT Scheme Code	Analysts	Test Method (Suggested)	Schedule	Group INR
Mechanical Properties of Rubber and similar products	PTPO/PP/242/2021	Change in Elongation (After Air Ageing) at 70 degree C for 72 hours, Change in Tensile Strength (After Air Ageing) at 70 degree C for 72 hours, Elongation at Break, Tensile Strength, Hardness	IS 3400 (P-1) & IS 3400 (P-4), ISO 37 & ISO 188, ASTM D412 & ASTM D573, IS 3400 (P-23), ISO 48, ASTM D2240	Ongoing	D
Proficiency Testing on Chemical Properties of Plastic & Plastic Products	PTPO/PP/214/2021	Melting Point, °C, Ash Content, % (at 900°C), Identification of Polymer	IS 13360 (P-6/S-10) ASTM D5630:2013 ASTM E1252 /Any Instrumental Method	Ongoing	D
Proficiency Testing on Chemical Properties of Rubber	PTPO/RC/182/2021	Ash Content, Carbon Black, Polymer content	ASTM D297-15	Ongoing	D
Mechanical Properties of Plastic & Polymer	PTPO/PP/155/2022	Density, Melt Flow Rate, Vicat Softening Temperature, Water Absorption, Hardness Shore-D	IS 13360/ASTM D 792, IS 13360/ASTM D 1525, ASTM D 1238	Apr-22	D
Mechanical Properties of Rubber and Similar Products	PTPO/RM/158/2022	Change in Elongation (Liquid Effect), Change in Tensile Strength (Liquid Effect), Density, Elongation at break, Tensile Strength	IS 3400 (P-1)/ISO 37/ASTM D412/ IS 3400 (P-4)/ IS 3400 (P-1) ISO 188/ISO 37 ASTM D573/ IS 3400 (P-23)/ISO 48/ASTM D2240	Apr-22	D
Mechanical Properties of Plastic & Polymer	PTPO/PP/153/2022	Tensile, Elongation, Density, Vicat Softening Temperature, Melt Flow Index	IS 13360/ASTM D 792, IS 13360/ASTM D 1525, ASTM D 1238	Jun-22	D
Proficiency Testing on Chemical Properties of Rubber	PTPO/RC/161/2022	Ash Content, Carbon Black, Polymer content	ASTM D297-15	Jun-22	D
Proficiency Testing on Chemical Properties of Plastic & Plastic Products	PTPO/PP/157/2022	Melting Point, °C, Ash Content, % (at 900°C), Identification of Polymer	IS 13360 (P-6/S-10) ASTM D5630:2013 ASTM E1252 /Any Instrumental Method	Aug-22	D
Mechanical Properties of Plastic & Polymer	PTPO/PP/156/2022	Density, Melt Flow Rate, Vicat Softening Temperature, Water Absorption, Hardness Shore-D	IS 13360/ASTM D 792, IS 13360/ASTM D 1525, ASTM D 1238	Oct-22	D
Mechanical Properties of Rubber and Similar Products	PTPO/RM/159/2022	Tensile Strength, Elongation at Break, Tensile Strength after heat ageing at 70°C for 72 hours, Elongation at break after heat ageing at 70°C for 72 hours, Hardness, Shore-A	IS 3400 (P-1)/ ISO 37/ ASTM D 412-16, IS 3400 P-23, ISO 868, ASTM D2240, IS 3400 (P-4) / ISO 188/ ASTM D573	Oct-22	D
Mechanical Properties of Plastic & Polymer	PTPO/PP/154/2022	Tensile, Elongation, Density, Vicat Softening Temperature, Melt Flow Index	IS 13360/ASTM D 792, IS 13360/ASTM D 1525, ASTM D 1238	Nov-22	D
Proficiency Testing on Chemical Properties of Rubber	PTPO/RC/162/2022	Ash Content, Carbon Black, Polymer content	ASTM D297-15	Nov-22	D

NDT (Metal & Building Material)

PT Scheme Name	PT Scheme Code	Analysts	Test Method (Suggested)	Schedule	Group INR
Proficiency Testing on X Ray	PTM/RT/133/2021	Crack Detection	IS ASME Sec-IX/Any Validated Method	Jan-22	D
Testing of Steel Plate by Ultrasonic Technique	PTM/NDT/04/19-20	Crack Detection	Ultrasonic Technique	Jan-22	D
Proficiency Testing on Non-Destructive Testing of Concrete- On Site	PTB/NDT/209/2021	Rebound Hammer, Ultrasonic Pulse Velocity	IS 13311 (P-2) IS 13311 (P-1)	Feb-22	B
Proficiency Testing on X Ray	PTM/RT/134/2021	Crack Detection	IS ASME Sec-IX/Any Validated Method	Jun-22	D
MEASUREMENT OF TIME OF A STANDARD BLOCK USING ULTRASONIC PULSE VELOCITY MACHINE	PTB/UPV/84/2021	ULTRASONIC PULSE VELOCITY, TIME	BY USING UPV MACHINE	Jul-22	D
Proficiency Testing on Non-Destructive Testing of Concrete- On Site	PTB/NDT/152/2022	Rebound Hammer, Ultrasonic Pulse Velocity	IS 13311 (P-2) IS 13311 (P-1)	Sep-22	B
Testing of Steel Plate by Ultrasonic Technique	PTM/UT/71/2021	Crack Detection	Ultrasonic Technique	Sep-22	D
Proficiency Testing on X Ray	PTM/RT/189/2022	Crack Detection	IS ASME Sec-IX/Any Validated Method	Dec-22	D

Coal & Coke

PT Scheme Name	PT Scheme Code	Analys	Test Method (Suggested)	Schedule	Group INR
Proficiency Testing on Coal/Coke Testing (Proximate)	PTC/CP/144/2022	Ash, Moisture, Volatile Matter, Gross Calorific Value	IS 1350/ASTM Methods	Feb-22	D
Proficiency Testing on Coke	PTC/COKE/246/2021	Ash, Moisture, Volatile Matter, Gross Calorific Value	IS 1350/ASTM Methods	Feb-22	D
Proficiency Testing on Coal/Coke Testing (Proximate)	PTC/CP/145/2022	Ash, Moisture, Volatile Matter, Gross Calorific Value	IS 1350/ASTM Methods	Apr-22	D
Proficiency Testing on Coal/Coke Testing (Ultimate)	PTC/CU/113/2021	Moisture content, Hydrogen, Nitrogen, Sulphur, Oxygen, Carbon, Ash content	IS 1350/ASTM/ISO Methods	Apr-22	D
Proficiency Testing on Coal/Coke Testing (Proximate)	PTC/CP/146/2022	Ash, Moisture, Volatile Matter, Gross Calorific Value	IS 1350/ASTM Methods	Jun-22	D
Proficiency Testing on Coal/Coke Testing (Proximate)	PTC/CP/147/2022	Ash, Moisture, Volatile Matter, Gross Calorific Value	IS 1350/ASTM Methods	Aug-22	D
Proficiency Testing on Coal/Coke Testing (Proximate)	PTC/CP/148/2022	Ash, Moisture, Volatile Matter, Gross Calorific Value	IS 1350/ASTM Methods	Oct-22	D
Proficiency Testing on Coal/Coke Testing (Ultimate)	PTC/CU/149/2022	Moisture content, Hydrogen, Nitrogen, Sulphur, Oxygen, Carbon, Ash content	IS 1350/ASTM/ISO Methods	Oct-22	D
Proficiency Testing on Coke	PTC/COKE/150/2022	Ash, Moisture, Volatile Matter, Gross Calorific Value	IS 1350/ASTM Methods	Dec-22	D
Proficiency Testing on Coal/Coke Testing (Proximate)	PTC/CP/188/2022	Ash, Moisture, Volatile Matter, Gross Calorific Value	IS 1350/ASTM Methods	Dec-22	D

Water & Residues in Water

PT Scheme Name	PT Scheme Code	Analyts	Test Method (Suggested)	Schedule	Group INR
Proficiency Testing on Pesticides (Organo Phosphorus)	PTW/CHEM/37/18-19	Chlorpyrifos, Malathion, Dieldrin, parathion-methyl, Endosulfan Sulphate	Any Validated Test Method	Feb-22	B
Proficiency Testing on Pesticides (OrganoChloro)	PTW/CHEM/36/18-19	Aldrin, p,p'-DDD, p,p'-DDE, p,p'-DDT, o,p'-DDD, o,p'-DDE, o,p'-DDT, α-BHC, β-BHC, δ-BHC, γ-BHC	Any Validated Test Method	Feb-22	B
Proficiency Testing on Pesticides (Organo Phosphorus)	PTW/OP/67/2020	Chlorpyrifos, Malathion, Dieldrin, parathion-methyl, Endosulfan Sulphate	Any Validated Test Method	Nov-22	B
Proficiency Testing on Pesticides (OrganoChloro)	PTW/OC/66/2020	Aldrin, p,p'-DDD, p,p'-DDE, p,p'-DDT, o,p'-DDD, o,p'-DDE, o,p'-DDT, α-BHC, β-BHC, δ-BHC, γ-BHC	Any Validated Test Method	Nov-22	B

Biological

PT Scheme Name	PT Scheme Code	Analyts	Test Method (Suggested)	Schedule	Group INR
Biological Testing in Water	PTW/BIOL/241/2021	E. Coli, Faecal Streptococci, Salmonella, Staphylococcus Aureus	IS 15185/IS 5887 (P-1)/ ISO 9308-1/ IS 15186/ IS 15187/ IS 5887 (P-3)/ ISO 19250/ IS 5887(PART -2)	Feb-22	A
Analytical Quality Control-II (Biological)	PTW/BIOL/98/2022	E. Coli, Faecal Coliform	IS 15185/ IS 5887 (P-1)/ ISO 9308-1, IS 1622	May-22	A
Analytical Quality Control-I (Biological)	PTW/BIOL/99/2022	E. Coli, Salmonella, Faecal Coliform, Coliform, Faecal Streptococci	IS 15185/ IS 5887 (P-1)/ ISO 9308-1, IS 15187/ IS 5887 (P-3)/ ISO 19250, IS 15186, IS 15185/IS 1622	Aug-22	D
Proficiency Testing on Legionella Spp.	PTW/BIOL/168/2022	Legionella Spp.	ISO 11731 (P-2)	Sep-22	A
Analytical Quality Control-III (Biological)	PTW/BIOL/169/2022	Salmonella, Coliform, Staphylococcus Aureus	IS 15187/ IS 5887 (P-3)/ ISO 19250, IS 5887(PART -2), IS 15185/ ISO 9308-1/ IS 1622	Nov-22	A

Textiles

PT Scheme Name	PT Scheme Code	Analyts	Test Method (Suggested)	Schedule	Group INR
Qualitative Scheme on Textile Testing -II	PTT/PP/187/2021	Color Fastness to Bleaching, Colorfastness to Hot Pressing, Pilling Resistance, Resistance to accelerated ageing, water repellency of Fabrics (Pressure head test), water repellency of fabrics (Water Spray Test)	IS/ ISO Method	Ongoing	E
Mechanical Testing on Textile items	PTT/PP/185/2021	Bursting Strength, Elongation at Break, GSM, Linear density of yarn removed from fabric – Warp direction, No. of Threads per dm, Tear Strength, Tensile Strength (5x20 cm Strip Strength) - Warp Direction, Thickness of the Woven Fabrics	IS/ ISO Method	Ongoing	A
Chemical Testing on Textile items (Quantitative)	PTT/PP/188/2021	Ash Content, Blend Composition, Dimensional Stability of Fabric in Soaking in Water, Moisture Content, pH Value of aqueous Extract at 27 Deg C, Scouring Loss, Water Soluble Matter	IS/ ISO Method	Ongoing	E
Qualitative Scheme on Textile Testing -II	PTT/PP/190/2021	Color Fastness to Bleaching, Colorfastness to Hot Pressing, Pilling Resistance, Resistance to accelerated ageing, water repellency of Fabrics (Pressure head test), water repellency of fabrics (Water Spray Test)	IS/ ISO Method	May-22	E
Chemical Testing on Textile items (Quantitative)	PTT/PP/189/2021	Dimensional Stability of fabric in soaking in water, Moisture Content, Ash content, Scouring Loss, pH Value of aqueous extract at 27°C Water Soluble Matter, Blend Composition	IS/ ISO Method	Jun-22	E
Mechanical Testing on Textile items (Quantitative)	PTT/PP/186/2021	GSM, Width, Linear density of yarn removed from fabric, No of Threads per, Tensile Strength (5x20 cm Strip strength), Elongation at Break, Tear Strength, Bursting Strength, Thickness of the Woven Fabrics	IS/ ISO Method	Jun-22	A
Qualitative Scheme on Textile Testing -I	PTT/PP/191/2021	Color Fastness to Light, Color fastness to Washing, Color fastness to Water, Color Fastness Rubbing, Color Fastness to Perspiration, Color Fastness to Dry Cleaning	IS/ ISO Method	Jul-22	E
Chemical Testing on Textile items (Quantitative)	PTT/CP/100/2022	Dimensional Stability of fabric in soaking in water, Moisture Content, Ash content, Scouring Loss, pH Value of aqueous extract at 27°C Water Soluble Matter, Blend Composition	IS/ ISO Method	Oct-22	E
Mechanical Testing on Textile items (Quantitative)	PTT/PP/101/2022	GSM, Width, Linear density of yarn removed from fabric, No of Threads per, Tensile Strength (5x20 cm Strip strength), Elongation at Break, Tear Strength, Bursting Strength, Thickness of the Woven Fabrics	IS/ ISO Method	Oct-22	A

Qualitative Scheme on Textile Testing -II	PTT/CP/183/2022	Color Fastness to Bleaching, Colorfastness to Hot Pressing, Pilling Resistance, Resistance to accelerated ageing, water repellency of Fabrics (Pressure head test), water repellency of fabrics (Water Spray Test)	IS/ ISO Method	Nov-22	E
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Qualitative Scheme on Textile Testing -I	PTT/CP/182/2022	Color Fastness to Light, Color fastness to Washing, Color fastness to Water, Color Fastness Rubbing, Color Fastness to Perspiration, Color Fastness to Dry Cleaning	IS/ ISO Method	Dec-22	E
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Hazardous Chemicals

PT Scheme Name	PT Scheme Code	Analyts	Test Method (Suggested)	Schedule	Group INR
Proficiency Testing on RoHS	PTP/CHEM/34/18-19	Pb, Cd, Hg, Cr6+,	IEC 62321/Any validated method	Jan-22	D
Proficiency Testing on Phthalates	PTP/PHT/52/2020	Dibutyl Phthalate, Di-(2-ethylhexyl) Phthalate, Benzyl Butyl Phthalate, Di-n-octyl phthalate, Diisononyl phthalate, Di-iso-decyl Phthalate	EN 14372: 2004/ GB/T22048- 2008/ IS 9873 (Part-6)/IS 9873 (Part-9)	Feb-22	D
Total Concentration in Certain Elements	PTP/TC/51/2020	Pb, Cd, Sb, As, Ba, Cr, Hg, Se	IS 9873-5/ISO 8124-5	Feb-22	B
Proficiency Testing on RoHS	PTP/ROHS/127/2021	Pb, Cd, Hg, Cr6+,	IEC 62321/Any validated method	Jun-22	D
Total Concentration in Certain Elements	PTP/TC/165/2021	Pb, Cd, Sb, As, Ba, Cr, Hg, Se	IS 9873-5/ISO 8124-5	Aug-22	B
Proficiency Testing on Phthalates	PTP/PHT/102/2022	Dibutyl Phthalate, Di-(2-ethylhexyl) Phthalate, Benzyl Butyl Phthalate, Di-n-octyl phthalate, Diisononyl phthalate, Di-iso-decyl Phthalate	EN 14372: 2004/ GB/T22048- 2008/ IS 9873 (Part-6)/IS 9873 (Part-9)	Sep-22	D
Proficiency Testing on RoHS	PTP/ROHS/103/2022	Pb, Cd, Hg, Cr6+,	IEC 62321/Any validated method	Oct-22	D

Others

PT Scheme Name	PT Scheme Code	Analyts	Test Method (Suggested)	Schedule	Group INR
Proficiency Testing on Leather	PTT/CHEM/14/19-20	Total Ash (%), Solvent Extractable Substance (%), pH of water-soluble Chromic oxide (%)	IS 582	Ongoing	A
Proficiency Testing on Painted Panel	PTP/PP/201/2021	Gloss Value (at 20°) Gloss Value (at 60°) Dry Film Thickness, micron	IS 101 (P4/S-4)/ ASTM D523 IS 101 (P-3/S-2)/ ASTM D7091/ ASTM D6132	Jan-22	B
Proficiency Testing on Adhesive	PTCH/CHEM/19/17-18	Viscosity@30°C, Non-Volatile@105°C	ASTM D1200, ASTMD 2369	Feb-22	A
Proficiency Testing on Leather (2)	PTT/LEATHER2/194/2021	Hexavalent Chromium, Moisture Content, Presence of Formaldehyde, Volatile Matter	IS 582	Apr-22	A
Proficiency Testing on Enamel	PTP/ENAMEL/231/2021	Volatile Matter, % , Viscosity by Ford Cup, sec, Pigment Content, % , Gloss Value , 60° , Flash Point, °C, Mass, kg/10 ltr	IS 101	May-22	A
Proficiency Testing on Enamel	PTP/ENAMEL/164/2022	Dry Film Thickness, Drying Time (Surface Dry, Hard Dry, Tack Free), Total Non-Volatile Content, Pencil Hardness Test	IS 101	Oct-22	A
Proficiency Testing on Leather	PTT/LEATHER/104/2022	Total Ash (%), Solvent Extractable Substance (%), pH of water-soluble Chromic oxide (%)	IS 582	Nov-22	A
Proficiency Testing on Painted Panel	PTP/PP/190/2022	Gloss Value (at 20°) Gloss Value (at 60°) Dry Film Thickness, micron	IS 101 (P4/S-4)/ ASTM D523 IS 101 (P-3/S-2)/ ASTM D7091/ ASTM D6132	Nov-22	B

Availability of QC Materials (OES)

Matrix Grade of the Material		Chemical Composition (Approx)													
Aluminium	Gr. 24345	Si	Fe	Cu	Mn	Mg	Ti	Zn	Cr						
		1.05	0.258	4.123	1.096	0.360	0.027	0.023	0.017						
	Gr. 63400	Si	Fe	Cu	Mn	Mg	Ti	Zn							
		0.435	0.200	0.016	0.031	0.471	0.015	0.024							
	ADC-12	Mg	Ti	Zn	Si	Fe	Cu	Mn							
		0.181	0.039	0.82	10.42	0.74	1.89	0.17							
Stainless Steel	AISI-202OFF	C	Si	Mn	S	P	Ni	Mo	Cu	Cr					
		0.145	0.64	5.09	0.014	0.04	2.77	0.149	0.89	14.23					
	AISI-304	C	Si	Mn	S	P	Ni	Mo	Cu	Cr	V				
		0.079	0.501	1.24	0.01	0.033	8.4	0.194	0.333	18.10	0.070				
	AISI-316	C	Si	Mn	S	P	Ni	Mo	Cu	Cr					
		0.076	0.375	1.470	0.023	0.036	10.07	2.02	0.422	16.65					
	AISI-321	C	Si	Mn	S	P	Ni	Mo	Cu	Cr	V	Ti	Co	Al	Sn
		0.020	0.365	1.880	0.014	0.034	9.09	0.29	0.577	17.26	0.080	0.280	0.160	0.020	0.010
Carbon, Low Alloy Steel	EN-24	C	Si	Mn	S	P	Ni	Mo	Al	Cu	V	Cr			
		0.40	0.258	0.564	0.014	0.017	1.33	0.265	0.019	0.069	0.034	1.06			
	EN-36C	C	Si	Mn	S	P	Ni	Mo	V	Cr					
		0.131	0.216	0.419	0.010	0.010	3.08	0.148	0.012	0.72					
	EN-353	C	Si	Mn	S	P	Ni	Mo	Cu	Cr	Al				
		0.190	0.258	0.710	0.024	0.019	1.05	0.127	0.022	0.950	0.052				
	EN-31	C	Si	Mn	S	P	Ni	Mo	Cu	Cr	Al	V			
		1.12	0.215	0.442	0.038	0.022	0.162	0.097	0.109	1.42	0.021	0.015			
	EN-1A	C	Si	Mn	S	P									
		0.083	0.047	1.180	0.314	0.047									
Tool St	M2	C	Si	Mn	S	P	Ni	Mo	Cr	V	Co	W			
		0.91	0.229	0.252	0.006	0.022	0.174	4.94	3.99	1.88	0.02	6.40			
Brass	IS 319 (Gr. 1)	Cu	Fe	Pb	Mn	Ni	Al	Zn							
		55.69	0.36	2.54	0.12	0.30	0.14	Rem.							
	IS 320	Cu	Fe	Pb	Mn	Ni	Al	P	As	Zn					
		58.37	0.63	1.28	1.05	0.106	0.0062	0.007	0.009	Rem.					
Zinc Alloy	Zamak-5	Al	Mg	Cu	Ni	Sn									
		4.01	0.033	1.06	0.01	0.016									

Cost of QCM per unit (INR)

4000/- + 1000/- as Packing and Forwarding Charges + GST 18%

The Above cost is applicable for QC Material along Certificate of Analysis

Availability of QC Materials (Impact)

30~40 J	Charpy Impact V Notch QCM at 0°C as per ASTM A370/E23
50~60 J	Charpy Impact V Notch QCM at Room Temperature as per ISO 148-1/IS 1757-1

Cost of QCM per Set (INR)

8000/- + 1000/- as Packing and Forwarding Charges + GST 18% (Set of 4 QCM)

The Above cost is applicable for QC Material along Certificate of Analysis

● Availability of QC Materials (Hardness)

Hardness	Range of Hardness	Test Parameter
HRBW	60-65	Rockwell Hardness Number (HRBW)
	90-95	
HRC	30-35	Rockwell Hardness Number (HRC)
	35-40	
	40-45	
	60-65	
HV-1	425-445	Vickers Hardness Number (HV-1)
	440-460	
	735-755	
HV-5	350-370	Vickers Hardness Number (HV-5)
	415-435	
	515-535	
	675-695	
HV-10	515-535	Vickers Hardness Number (HV-10)
HV-30	710-730	Vickers Hardness Number (HV-30)
HBW-10/3000	205-225	Brinell Hardness Number (HBW-10/3000)
HBW-5/750	250-270	Brinell Hardness Number (HBW-5/750)

Cost of QCM per unit (INR)

3000/- + 1000/- as Packing and Forwarding Charges + GST 18%

The Above cost is applicable for QC Material along Certificate of Analysis

● Availability of BND® (Indian Reference Materials)

BND[®] 2201: Rockwell Hardness (C Scale): 44.33±0.83

BND[®] 2202: Rockwell Hardness (C Scale): 61.04±0.77

BND[®] 2204: Vickers Hardness (5 kgf/49.03N Load): 735.6±13.9


Cost of BND per unit (INR)

3500/- + 1000/- as Packing and Forwarding Charges + GST 18%

The Above cost is applicable for BNDs along Certificate of Analysis

● Availability of QC Materials (Tensile)

UTS: 700~725 Yield Stress: 400~425 Elongation: 25~28	Tensile Test Bar as per ASTM A370/E8
UTS: 675~700 Yield Stress: 425~450 Elongation: 25~28	Tensile Test Bar as per IS 1608 (P-1)/ISO 6892-1

Cost of QCM per Set (INR)

5000/- + 1000/- as Packing and Forwarding Charges + GST 18% (Set of 2 QCM)

The Above cost is applicable for QC Material along Certificate of Analysis

For any query please call us at 9582999061, 9873001501 or email us at qa@globalptprovider.com; umesh@globalptprovider.com