



National Council for Cement and Building Materials Interlaboratory Services



Interlaboratory Services
NABL Accredited Laboratories
Certificate No.: PC-1007

Proficiency Testing (PT) Calendar (October 2021 – December 2023)

Sl. No.	PT Item	Field	Parameter	IS Code	Schedule	Charges (Rs.)	
1.	Coarse aggregate	Mechanical	Specific gravity	2386 (Part III): 1963 (RA 2021)	1 st October 2021 – 31 st December 2021	15000/-	
			Water absorption	2386 (Part III): 1963 (RA 2021)			
			Crushing value	2386 (Part IV): 1963 (RA 2021)			
			Impact value	2386 (Part IV): 1963 (RA 2021)			
			Flakiness Index	2386 (Part I): 1963 (RA 2021)			
			Elongation index	2386 (Part I): 1963 (RA 2021)			
	Fine aggregate	Mechanical	Sieve analysis (ROS 300µm)	2386 (Part I): 1963 (RA 2021)			13000/-
			Specific gravity	2386 (Part III): 1963 (RA 2021)			
			Water absorption	2386 (Part III): 1963 (RA 2021)			
			Bulk density (loose)	2386 (Part III): 1963 (RA 2021)			
	Concrete Cube	Mechanical	Mass	-			18000/-
			Density	-			
			Area	-			
			Compressive strength	IS 516:1959 (RA 2021)			
	Fly ash	Mechanical	Blaine fineness	IS 1727:1967 (RA 2018)			8000/-
			Fineness by sieving (45µm)	IS 1727:1967 (RA 2018)			
Lime reactivity			IS 1727:1967 (RA 2018)				
Compressive strength			IS 1727:1967 (RA 2018)				
2.	Clinker	Chemical	Loss on ignition (LOI)	IS 4032:1985 (RA 2019)	1 st January 2022 – 31 st March 2022	15000/-	
			Silicon dioxide (SiO ₂)	IS 4032:1985 (RA 2019)			
			Iron oxide (Fe ₂ O ₃)	IS 4032:1985 (RA 2019)			
			Aluminium oxide (Al ₂ O ₃)	IS 4032:1985 (RA 2019)			
			Calcium oxide (CaO)	IS 4032:1985 (RA 2019)			
			Magnesium oxide (MgO)	IS 4032:1985 (RA 2019)			
			Sulphur trioxide (SO ₃)	IS 4032:1985 (RA 2019)			
			Sodium oxide (Na ₂ O)	NCB Standard Procedure, MS-13-2010			
			Potassium oxide (K ₂ O)	NCB Standard Procedure, MS-13-2010			
			Chloride (Cl)	IS 4032:1985 (RA 2019)			
	Mortar cube	Mechanical	Mass	-			20000/-
			Density	-			
			Area	-			
			Compressive strength	IS 4031 (Part 6):1988 (RA 2019)			



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	Coal	Chemical	Moisture	IS 1350 (Part 1):1984 (RA 2019)/ ASTM/ EN/ISO		16000/-
			Volatile Matter	IS 1350 (Part 1):1984 (RA 2019)/ ASTM/ EN/ISO		
			Ash	IS 1350 (Part 1):1984 (RA 2019)/ ASTM/ EN/ISO		
			Gross Calorific Value	IS 1350 (Part 2):2017/ASTM/ EN/ ISO		
			Sulphur	IS 1350 (Part 3):1969 (RA 2015)/ASTM/ EN/ISO		
3.	PPC	Chemical	Loss on ignition (LOI)	IS 4032:1985 (RA 2019)	1 st April 2022 – 30 th June 2022	12000/-
			Magnesium oxide (MgO)	IS 4032:1985 (RA 2019)		
			Sulphur trioxide (SO ₃)	IS 4032:1985 (RA 2019)		
			Insoluble residue	IS 4032:1985 (RA 2019)		
			Sodium Oxide (Na ₂ O)	NCB Standard Procedure, MS-13-2010		
			Potassium Oxide (K ₂ O)	NCB Standard Procedure, MS-13-2010		
	PPC	Mechanical	Specific surface (Blaine fineness)	IS 4031 (Part 2):1999 (RA 2018)		14000/-
			Normal Consistency	IS 4031 (Part 4):1988 (RA 2019)		
			Initial setting time	IS 4031 (Part 5):1988 (RA 2019)		
			Final setting time	IS 4031 (Part 5):1988 (RA 2019)		
			72±1 hrs. comp. sth.	IS 4031 (Part 6):1988 (RA 2019)		
			168±2 hrs. comp. sth.	IS 4031 (Part 6):1988 (RA 2019)		
			672±4 hrs. comp. sth.	IS 4031 (Part 6):1988 (RA 2019)		
	Fly ash	Chemical	Loss on ignition (LOI)	IS 1727:1967 (RA 2018)		10000/-
			Silicon dioxide (SiO ₂)	IS 1727:1967 (RA 2018)		
			Iron oxide (Fe ₂ O ₃)	IS 1727:1967 (RA 2018)		
			Aluminium oxide (Al ₂ O ₃)	IS 1727:1967 (RA 2018)		
			Calcium oxide (CaO)	IS 1727:1967 (RA 2018)		
			Magnesium oxide (MgO)	IS 1727:1967 (RA 2018)		
			Sulphur trioxide (SO ₃)	IS 1727:1967 (RA 2018)		
			Sodium oxide (Na ₂ O)	NCB Standard Procedure, MS-14-2010		
			Potassium oxide (K ₂ O)	NCB Standard Procedure, MS-14-2010		
			Chloride (Cl)	IS 4032:1985 (RA 2019)/MS-14-2010		



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4.	Concrete cube	Mechanical	Mass	-	1 st July 2022 – 30 th September 2022	18000/-	
			Density	-			
			Area	-			
			Compressive strength	IS 516:1959 (RA 2021)			
	Water for concrete	Chemical	Organic (volatile) filterable residue	IS 3025 (Part 18): 1984 (RA 2017)			8000/-
			Inorganic (fixed) filterable residue	IS 3025 (Part 18): 1984 (RA 2017)			
			Sulphates (as SO ₃)	IS 3025 (Part 24):1986 (RA 2019)			
			Chlorides (as Cl)	IS 3025 (Part 32): 1988 (RA 2019)			
			Suspended (non-filterable) matter	IS 3025 (Part 17):1984 (RA 2017)			
			pH	IS 3025 (Part 11): 1983 (RA 2017)			
	OPC	Mechanical	Alkalinity	IS 3025 (Part 23): 1986 (RA 2019)	14000/-		
			Specific surface (Blaine fineness)	IS 4031 (Part 2):1999 (RA 2018)			
			Normal Consistency	IS 4031 (Part 4):1988 (RA 2019)			
Initial setting time			IS 4031 (Part 5):1988 (RA 2019)				
Final setting time			IS 4031 (Part 5):1988 (RA 2019)				
72±1 hrs. comp. sth.			IS 4031 (Part 6):1988 (RA 2019)				
168±2 hrs. comp. sth.			IS 4031 (Part 6):1988 (RA 2019)				
672±4 hrs. comp. sth.	IS 4031 (Part 6):1988 (RA 2019)						
5.	Burnt clay building brick	Mechanical	Water absorption	IS 3495 (Part 2): 2019	1 st October 2022 – 31 st December 2022	15000/-	
			Compressive strength	IS 3495 (Part 1): 2019			
	Steel bar Steel bar (12 mm)	Mechanical	Mass per metre	IS 1786:2008 (RA 2018) & IS 1608 (Part 1):2018	12000/-		
			Yield stress				
			Elongation				
			Tensile strength				



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	OPC	Chemical	Loss on ignition (LOI)	IS 4032:1985 (RA 2019)		12000/-
			Silicon dioxide (SiO ₂)	IS 4032:1985 (RA 2019)		
			Iron oxide (Fe ₂ O ₃)	IS 4032:1985 (RA 2019)		
			Aluminium oxide (Al ₂ O ₃)	IS 4032:1985 (RA 2019)		
			Calcium oxide (CaO)	IS 4032:1985 (RA 2019)		
			Magnesium oxide (MgO)	IS 4032:1985 (RA 2019)		
			Sulphur trioxide (SO ₃)	IS 4032:1985 (RA 2019)		
			Insoluble residue	IS 4032:1985 (RA 2019)		
			Sodium oxide (Na ₂ O)	NCB Standard Procedure, MS-13-2010		
			Potassium oxide (K ₂ O)	NCB Standard Procedure, MS-13-2010		
			Chloride (Cl)	IS 4032:1985 (RA 2019)		
6.	PPC	Chemical	Loss on ignition (LOI)	IS 4032:1985 (RA 2019)	1 st January 2023 – 31 st March 2023	12000/-
			Magnesium oxide (MgO)	IS 4032:1985 (RA 2019)		
			Sulphur trioxide (SO ₃)	IS 4032:1985 (RA 2019)		
			Insoluble residue	IS 4032:1985 (RA 2019)		
			Sodium Oxide (Na ₂ O)	NCB Standard Procedure, MS-13-2010		
			Potassium Oxide (K ₂ O)	NCB Standard Procedure, MS-13-2010		
	PPC	Mechanical	Specific surface (Blaine fineness)	IS 4031 (Part 2):1999 (RA 2018)	14000/-	
			Normal Consistency	IS 4031 (Part 4):1988 (RA 2019)		
			Initial setting time	IS 4031 (Part 5):1988 (RA 2019)		
			Final setting time	IS 4031 (Part 5):1988 (RA 2019)		
			72±1 hrs. comp. sth.	IS 4031 (Part 6):1988 (RA 2019)		
			168±2 hrs. comp. sth.	IS 4031 (Part 6):1988 (RA 2019)		
			672±4 hrs. comp. sth.	IS 4031 (Part 6):1988 (RA 2019)		
	Limestone	Chemical	Loss on ignition (LOI)	IS 1760 (Part 1): 1991 (RA 2017)	13000/-	
			Silica (SiO ₂)	IS 1760 (Part 2): 1991 (RA 2017)		
			Iron oxide (Fe ₂ O ₃)	IS 1760 (Part 3): 1992 (RA 2017)		
			Alumina (Al ₂ O ₃)	IS 1760 (Part 3): 1992 (RA 2017)		
Calcium oxide (CaO)			IS 1760 (Part 3): 1992 (RA 2017)			
Magnesium oxide (MgO)			IS 1760 (Part 3): 1992 (RA 2017)			
Sodium oxide (Na ₂ O)			NCB Standard Procedure, MS-13-2010			
Potassium oxide (K ₂ O)			NCB Standard Procedure, MS-13-2010			
Free silica	IS 1760 (Part 6):2001 (RA 2017)					



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7.	Coal	Chemical	Moisture	IS 1350 (Part 1):1984 (RA 2019)/ ASTM/ EN/ISO	1 st April 2023 – 31 st June 2023	16000/-
			Volatile Matter	IS 1350 (Part 1):1984 (RA 2019)/ ASTM/ EN/ISO		
			Ash	IS 1350 (Part 1):1984 (RA 2019)/ ASTM/ EN/ISO		
			Gross Calorific Value	IS 1350 (Part 2):2017/ASTM/EN/ ISO		
			Sulphur	IS 1350 (Part 3):1969 (RA 2015)/ ASTM/EN/ISO		
	Tile	Mechanical	Water absorption	IS 13630 (Part 2):2019	15000/-	
			Modulus of rupture	IS 13630 (Part 6):2019		
			Breaking strength	IS 13630 (Part 6):2019		
	Water for concrete	Chemical	Organic (volatile) filterable residue	IS 3025 (Part 18): 1984 (RA 2017)	8000/-	
			Inorganic (fixed) filterable residue	IS 3025 (Part 18): 1984 (RA 2017)		
			Sulphates (as SO ₃)	IS 3025 (Part 24):1986 (RA 2019)		
			Chlorides (as Cl)	IS 3025 (Part 32): 1988 (RA 2019)		
			Suspended (non-filterable) matter	IS 3025 (Part 17):1984 (RA 2017)		
			pH	IS 3025 (Part 11): 1983 (RA 2017)		
			Alkalinity	IS 3025 (Part 23): 1986 (RA 2019)		
8.	Coarse aggregate	Mechanical	Specific gravity	2386 (Part III): 1963 (RA 2021)	1 st July 2023 – 31 st September 2023	15000/-
			Water absorption	2386 (Part III): 1963 (RA 2021)		
			Crushing value	2386 (Part IV): 1963 (RA 2021)		
			Impact value	2386 (Part IV): 1963 (RA 2021)		
			Flakiness Index	2386 (Part I): 1963 (RA 2021)		
			Elongation index	2386 (Part I): 1963 (RA 2021)		
	Fine aggregate	Mechanical	Sieve analysis (ROS 300µm)	2386 (Part I): 1963 (RA 2021)	13000/-	
			Specific gravity	2386 (Part III): 1963 (RA 2021)		
			Water absorption	2386 (Part III): 1963 (RA 2021)		
			Bulk density (loose)	2386 (Part III): 1963 (RA 2021)		



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	Concrete Cube	Mechanical	Mass	-		18000/-
			Density	-		
			Area	-		
			Compressive strength	IS 516:1959 (RA 2021)		
9.	OPC	Mechanical	Specific surface (Blaine fineness)	IS 4031 (Part 2):1999 (RA 2018)	1 st October 2023 – 31 st December 2023	14000/-
			Normal Consistency	IS 4031 (Part 4):1988 (RA 2019)		
			Initial setting time	IS 4031 (Part 5):1988 (RA 2019)		
			Final setting time	IS 4031 (Part 5):1988 (RA 2019)		
			72±1 hrs. comp. sth.	IS 4031 (Part 6):1988 (RA 2019)		
			168±2 hrs. comp. sth.	IS 4031 (Part 6):1988 (RA 2019)		
			672±4 hrs. comp. sth.	IS 4031 (Part 6):1988 (RA 2019)		
	Burnt clay building brick	Mechanical	Water absorption	IS 3495 (Part 2): 2019		15000/-
			Compressive strength	IS 3495 (Part 1): 2019		
	Steel bar Steel bar (12 mm)	Mechanical	Mass per metre	IS 1786:2008 (RA 2018) & IS 1608 (Part 1):2018		12000/-
			Yield stress			
			Elongation			
			Tensile strength			

Contact Details of PT Coordinator:

V Naga Kumar/Abhishek Agnihotri

Centre for Quality Management, Standards and Calibration Services
National Council for Cement and Building Materials
34 Km Stone, Delhi-Mathura Road (NH-2)
Ballabgarh – 121004 (Haryana); Phone No: 0129-4192305/239
E-mail: ncb.cqc@gmail.com; Web: www.ncbindia.com