

PT Provider Interlaboratory Services, National Council for Cement and Building Materials, 34, KM Stone, NH-2, Delhi-Mathura Road, Ballabgarh, Haryana

Accreditation Standard ISO/IEC 17043:2010

Certificate Number PC-1007 (in lieu of P-0001 & P-0002)

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Validity 10.05.2017 to 09.05.2019

Last Amended on --

S.No.	Proficiency Testing Scheme	Proficiency Testing Item	Analyte/ Parameter/ Test Method
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**CHEMICAL TESTING**

I.	SIMULTANEOUS SCHEME	BUILDING MATERIAL	
		<b>Limestone</b>	Loss on ignition
			SiO <sub>2</sub>
			Fe <sub>2</sub> O <sub>3</sub>
			Al <sub>2</sub> O <sub>3</sub>
			CaO
			MgO
			Na <sub>2</sub> O
			K <sub>2</sub> O
			Free silica
		<b>Clinker</b>	Loss on ignition
			SiO <sub>2</sub>
			Fe <sub>2</sub> O <sub>3</sub>
			Al <sub>2</sub> O <sub>3</sub>
			CaO
			MgO
			SO <sub>3</sub>
			Insoluble residue
			Na <sub>2</sub> O
			K <sub>2</sub> O
			Chloride
		<b>Cement</b>	Loss on ignition
			SiO <sub>2</sub>
			Fe <sub>2</sub> O <sub>3</sub>
			Al <sub>2</sub> O <sub>3</sub>
			CaO
			MgO
			SO <sub>3</sub>

Anita Rani  
Convenor

N. Venkateswaran  
Program Director

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S.No.	Proficiency Testing Scheme	Proficiency Testing Item	Analyte/ Parameter/ Test Method
	<b>SIMULTANEOUS SCHEME</b>	<b>BUILDING MATERIALS</b>	Insoluble residue
		<b>Cement</b>	Na <sub>2</sub> O
			K <sub>2</sub> O
			Chloride
		<b>Fly ash</b>	Loss on ignition
			SiO <sub>2</sub>
			Fe <sub>2</sub> O <sub>3</sub>
			Al <sub>2</sub> O <sub>3</sub>
			CaO
			MgO
			SO <sub>3</sub>
			Na <sub>2</sub> O
			K <sub>2</sub> O
		<b>Concrete admixture</b>	Dry material content
			Ash content
			pH
			Chloride ion content
		<b>Water for concrete</b>	Organic (volatile) filterable residue
			Inorganic (fixed) filterable residue
			Suspended (non-filterable) matter
			Sulphates (as SO <sub>3</sub> )
			Chlorides (as Cl)
			pH
			Acidity/Alkalinity

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S.No.	Proficiency Testing Scheme	Proficiency Testing Item	Analyte/ Parameter/ Test Method
	<b>SIMULTANEOUS SCHEME</b>	<b>SOLID FUELS</b>	Moisture
		Coal/ Coke/ Pet coke	Ash
			Volatile Matter
			Sulphur
			Calorific Value

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**MECHANICAL TESTING**

I.	SIMULTANEOUS SCHEME	BUILDING MATERIAL	
		<b>Cement</b>	Specific surface (Blaine fineness)
			Normal Consistency
			Setting time
			Compressive strength
			Residue on 90 µm sieve
		<b>Fly Ash</b>	Retention on 45 µm sieve
			Blaine fineness
			Lime reactivity
			Compressive strength
		<b>Aggregate</b>	Sieve analysis
			Apparent specific gravity
			Water absorption
			Bulk density
			Crushing value
			10% Fines value
			Impact value
			Abrasion value
			Flakiness index
			Elongation index
		<b>Mortar/concrete</b>	Compressive strength
		<b>Tile (ceramic)</b>	Water absorption
		<b>Burnt clay building brick</b>	Water absorption Compressive strength

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S.No.	Proficiency Testing Scheme	Proficiency Testing Item	Analyte/ Parameter/ Test Method
		<b>BUILDING MATERIAL</b>	Nominal mass
		<b>Steel bar</b>	Yield stress
			Elongation
			Tensile strength