IS Codes for Material Specifications and Testing

Property	IS Code	Details
Mix Design	IS:10262 - 2019	Concrete Mix Design - Guidelines
Cement - Specifications	IS:269 - 2015	OPC
	IS:1489 - 2015	Part 1 Fly ash based PPC
		Part 2 Calcined Clay based PPC
Cement Tests	IS:4031 – 2019	Part 1 Determination of fineness by dry sieving
		Part 2 Determination of fineness by specific surface by Blaine air permeability method
		Part 3 Determination of soundness
		Part 4 Determination of consistency of standard cement paste
		Part 5 Determination of initial and final setting times
		Part 6 Determination of compressive strength of hydraulic cement (other than masonry cement)
		Part 7 Determination of compressive strength of masonry cement
		Part 8 Determination of transverse and compressive strength of plastic mortar using prism
		Part 9 Determination of heat of hydration
		Part 10 Determination of drying shrinkage
		Part 11 Determination of density
		Part 12 Determination of air content of hydraulic cement mortar
		Part 13 Measurement of water retentivity of masonry cement
		Part 14 Determination of false set
		Part 15 Determination of fineness by wet sieving
	IS4032 - 2019	Method of chemical analysis of hydraulic cement
Coarse & fine aggregate -	IS:383 - 2016	Coarse & fine aggregate for concrete - Specifications
Specifications		
Coarse & fine aggregate - Tests	IS 2386	Part 1 Methods of test for aggregate for concrete particle size and shape
		Part 2 Methods of test for aggregate for concrete estimation of deleterious materials and organic impurities
		Part 3 Methods of test for aggregate for specific gravity, density, voids, absorption & bulking
		Part 4 Methods of test for aggregate for Mechanical properties.
		Part 5 Methods of test for aggregate Soundness

		Part 6 Methods of test for aggregate measuring mortar making properties of fine aggregates. Part 7 Methods of test for aggregate for alkali-aggregate reactivity Part 8 Methods of test for aggregate for petrographic examination
Water – Specifications, Tests	IS:456 – 2016	Plain and reinforced concrete - code of practice
Fresh Concrete - Tests	IS:1199 - 2018	Part 1 Sampling of fresh concrete Part 2 Determination of consistency of fresh concrete Part 3 Determination of density of fresh concrete Part 5 Making and curing of test specimens Part 6 Tests on fresh self-compacting concrete Part 7 Determination of setting time of concrete by penetration resistance Part 8 Determination of water soluble and acid soluble chlorides in mortar and concrete Part 9 Analysis of freshly mixed concrete
Hardened Concrete - Tests	IS:516 - Upcoming	Part 1 Compressive, flexural and split tensile strength of hardened concrete Part 2 Properties of hardened concrete other than strength Part 3 Making, curing and determining compressive strength of accelerated cured concrete test specimens Part 4 Sampling, preparing and testing of concrete cores Part 5 Non-destructive testing of hardened concrete Part 6 Determination of drying shrinkage and moisture movement for concrete samples Part 7 Determination of creep of concrete cylinders in compression Part 8 Determination of modulus of elasticity Part 9 Wear Resistance Part 10 Pull out test for bond in reinforced concrete Part 11 Method for determination of Portland cement content of hydraulic cement concrete Part 12 Determination of water soluble and acid soluble chlorides in hardened mortar and concrete
Burnt clay bricks - specification	IS:1077 - 2016	Common burnt clay building bricks - specification
Burnt Clay Bricks Tests	IS:3495 - 2016	Part 1 Determination of compressive strength Part 2 Determination of water absorption Part 3 Determination of efflorescence Part 4 Determination of warpage

Reinforcement - Specifications	IS:1786 – 2018	High strength deformed steel bars and wires for concrete reinforcement—specification
	IS:2062 - 2016	Hot rolled medium and high tensile structural steel — specification
Reinforcement - Tests	IS:1608 - 2018	Metallic Materials — Tensile Testing (Part 1-3)
	IS:1599 - 2019	Methods for bend test
	IS:1786 - 2018	Method for re-bend test for metallic wires and bars