

QUALITY CHECK OF FLYASH AND GRANULATED SLAG

Requirement of Flyash as per IS 3812(Part-1) :2013				
		UOM	BIS Specification	Emami Test results
CHEMICAL	SiO ₂ +Al ₂ O ₃ +Fe ₂ O ₃	(%)	Min 70	90-95
	SiO ₂	(%)	Min 35	60-63
	MgO	(%)	Max 5	1-1.3
	SO ₃	(%)	Max 3	0.2-0.5
	ALKALI AS Na ₂ O	(%)	Max 1.5	0.3-0.5
	Chloride Content	(%)	Max 0.05	0.005-0.01
	LOI	(%)	Max 5	0.2-0.5
PHYSICAL	Fineness	(M ² /Kg)	Min 250	280-320
	Lime Reactivity	(MPa)	Min 4.5	5.2-6.8
	% Of PPC Strength Corresponding to Plain Cem. Mortar	%	Min 80	88-95
	Soundness (Autoclave)	%	Max 0.8	0.01-0.10

Requirement of Granulated Slag as per IS 12089 :1987				
		UOM	BIS Specification	Emami Test results
CHEMICAL	MgO	%	17.0	7.0-9.2
	IR	%	max 5.0	0.4-1.4
	Sulphide Sulpher	%	max 2.0	0.3-0.5
	MnO	%	max 5.5	0.35-1.0
	(Ca+MgO+Al ₂ O ₃) /SiO ₂	Ratio	min 1.0	1.8-1.95
	Glass Content	%	min 85	89.2-94.2

