

Bagheran Cement CO.
Quality Control Test Report



Portland Cement Type 1-525				Acc to : ISIRI 389
Chemical Analysis				Chemical Requirements
Test Parameters		Unit	Results	ISIRI 389
Silicon Dioxide	SiO ₂	%	21.40	—
Aluminium Oxide	Al ₂ O ₃	%	5.15	—
Ferric Oxide	Fe ₂ O ₃	%	3.30	—
Calcium Oxide	CaO	%	64.2	—
Magnesium Oxide	MgO	%	1.55	Max-5.0
Sulfur Trioxide	SO ₃	%	2.47	Max-3.0
Potassium Oxide	K ₂ O	%	0.43	—
Sodium Oxide	Na ₂ O	%	0.57	—
Chloride	CL	%	0.025	—
Loss on Ignition	LOI	%	0.98	Max-3.0
Free Cao	F.CaO	%	0.9	—
Insoluble Residue	IR	%	0.58	Max-0.75
Tricalcium Silicate	C3S	%	52.49	—
Dicalcium Silicate	C2S	%	21.78	—
Tricalcium Aluminate	C3A	%	8.07	—
Calcium Alumino Ferrite	C4AF	%	10.04	—
Physical Properties				Physical Requirements
Test Parameters		Unit	Results	ISIRI 389
Fineness	Blaine	Cm ² /gr	3500	Min-2800
Setting Time	Initial	min	135	Min-45
	Final	min	185	Max -360
Soundness	Autoclave Exp	%	0.09	Max -0.8
	Le chatelire	mm	0.9	—
Compressive Strength	2 Days	kg/cm ²	210	Min-200
	3 Days	kg/cm ²	240	—
	7Days	kg/cm ²	350	—
	28 Days	kg/cm ²	530	Min-525

Lab. Manager;