

Quality Control .Lab
Test Report

Product Name: Ordinary Portland Cement Type 2

Date: 22 Jul 2018 to 20 Aug 2018

Test Parameters	Method	Range of ISIRI	Result	Product Range
Loss on Ignition	LOI %	ISIRI 1692	1.8	2.0 ± 0.5
Silicon Dioxide	SiO2 %	" "	20.8	-
Aluminium Oxide	Al2O3 %	" "	5.15	-
Ferric Oxide	Fe2O3 %	" "	3.80	-
Calcium Oxide	CaO %	" "	63.2	-
Magnesium Oxide	MgO %	" "	1.70	Max 2.5
Sulfur Trioxide	SO3 %	" "	2.3	2.4 ± 0.3
Sodium Oxide	Na2O %	ISIRI 1695	0.39	0.4 ± 0.1
Potassium Oxide	K2O %	" "	0.89	0.9 ± 0.1
Insoluble Residue	IR %	ISIRI 1692	0.40	0.4 ± 0.2
Free Cao	F.CaO %	ISO774	1.2	-
Lime Saturation Factor	LSF %	Bouge Method	94.6	-
Silica ration	SIM %	" "	2.32	-
Alumina ratio	ALM %	" "	1.36	-
Tricalcium Silicate	C3S %	Bouge Method	52.5	-
Dicalcium Silicate	C2S %	" "	19.9	-
Tricalcium Aluminate	C3A %	" "	7.2	-
Calcium Alumino Ferrite	C4AF %	" "	11.6	-
PHYSICAL TESTS				
Fineness				
Blaine	Cm2/gr	ISIRI 390	3100	3100 ± 200
Water for Normal Consistency	%	ISIRI 11895	-	-
Setting Time - Vicat Test		ISIRI 392	-	-
Initial	Min	" "	130	Min 100
Final	hr	" "	3:10	Max 5
Compressive Strength	2 days kg/cm2	ISIRI 393	-	-
	3 days " "	" "	280	Min 200
	7 days " "	" "	390	Min 350
	28 days " "	" "	470	Min 450
Autoclave Expansion	%	ISIRI 391	0.07	Max 0.2
Interpretation Sample:				
Technical Manager			Lab Manager	
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