

معمل سمنت الكوفة

AI-KUFA CEMENT PLANT
(KF/19/01)
REPORT OF CEMENT QUALITY

QUALITY CONTROL DEP. \ (LAB.)

قسم السيطرة النوعية / (المختبرات)

Reference number /	Type of cement S. R. P.C
Factory / Al-Kufa Cement Plant	Sampling date From 1/12/2019 TO 31/12/2019

CHEMICAL ANALYSIS	COMPONENT %	TEST RESULT	LIMITS	CONFORM
	SiO ₂	21.07	.....
	Al ₂ O ₃	4.15	.....
	Fe ₂ O ₃	4.88	.....
	CaO	61.97	.....
	MgO	3.39	≤ 5%	OK
	SO ₃	2.06	≤ 2.8% for OPC. ≤ 2.5% for .S.R.P.C	OK
	LOSS ON IGNITION	1.84	≤ 4%	OK
	Total	99.35		
	INSOLUBLE RESIDUE	0.60	≤ 1.5%	OK
	FREE LIME	1.25	.....
	L.S.F	0.90		OK
	M.S	2.33	.....
	M.A	0.85	.....
	C ₃ S	46.33	.....
	C ₂ S	25.46	.....
	C ₃ A	2.75	≤ 3.5%	OK
C ₄ AF	14.85	.....	

PHYSICAL TEST		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	110	≥ 45 min	OK
	Final	3.10	≤ 10 hr	
Fineness (Blaine)		3120	≥ 2800Cm ² /gm for S.R... ≥ 2500Cm ² /gm for OPC	OK
Compressive Strength	2days	14.41	≥ 10 MN/m ²	OK
	28days	35.20	≥ 32.5 MN/m ²	
Soundness (Autoclave) %		0.09	≤ 0.8	OK
Residue on sieve %	90 μm	5.85	.....
	180 μm	0.49	.....

According to IQ No 5/2019

Plant Manager

Final Result acceptable
Production Manager

Quality Manager

