

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

QUALITY CONTROL DEP. (LAB.)

قسم السيطرة النوعية / (المختبرات)

Reference number Silo NO 2+3+4+5	Type of cement S.R. P.C.
Factory / Al-Kufa Cement Plant	Sampling date From 1/5/2020 Testing date 31/5/2020

CHEMICAL ANALYSIS	COMPONENT %	TEST RESULT	LIMITS	CONFORM
	SiO ₂	21.26		
	Al ₂ O ₃	4.16	.....
	Fe ₂ O ₃	5.22	.....
	CaO	61.46	.....
	MgO	3.11	≤ 5%	OK
	SO ₃	2.17	≤ 2.8% for OPC. ≤ 2.5% for SRPC.	OK
	LOSS ON IGNITION	2.09	≤ 4%	OK
	Total	99.45		
	INSOLUBLE RESIDUE	0.60	≤ 1.5%	OK
	FREE LIME	1.15	.....
	L.S.F	0.88		OK
	M.S	2.27	.....
	M.A	0.80	.....
	C ₃ S	42.39	.....
	C ₂ S	28.97	.....
	C ₃ A	2.19	≤ 3.5 for SRPC	OK
	C ₄ AF	15.87		

PHYSICAL TEST		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	110	≥ 45 min	OK
	Final	3.10	≤ 10 hr	
Fineness (Blaine)		3186	≥ 2500Cm ² /gm for OPC . ≥ 2800Cm ² /gm for SRPC	OK
Compressive Strength	2days	15.57	≥ 10 MN/m ²	OK
	28days	33.67	≥ 32.5 MN/m ²	
Soundness (Autoclave) %		0.10	≤ 0.8	OK
Residue on sieve %	90 μm	5.69	.....
	180 μm	0.41	.....

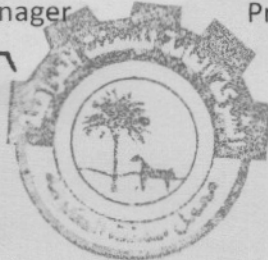
According to I.Q No 5/2019

Final Result acceptable

Plant Manager

Production Manager

Quality Manager



c.c. N/7

c.c. N/10