

العدد:-
التاريخ:-

الشركة العامة للسمنت العراقية
IRAQI CEMENT STATE CO.

معمل سمنت بابل

BABIL CEMENT PLANT

REPORT OF CEMENT QUALITY



قسم السيطرة النوعية / (المختبرات) (LAB) QUALITY CONTROL DEP.

Reference number	سمنت مجهز // من 2021/4/1 الى 2021/4/30	Type of cement // مقوم (شهادة فحص شهرية)
Factory / Babil Cement Plant	Sampling date:- / / 2020	Testing date :- / / 2020

CHEMICAL ANALYSIS	COMPONENT %	TEST RESULT	LIMITS	CONFORM
	SiO ₂	20.97	.....
	Al ₂ O ₃	4.22	.....
	Fe ₂ O ₃	5.39	.....
	CaO	61.94	.....
	MgO	2.32	≤ 5%	OK
	SO ₃	2.13	≤ 2.5% if C ₃ A < 5 ≤ 2.8 % if C ₃ A > 5	OK
	LOSS ON IGNITION	2.63	≤ 4%	OK
	Total	99.59		
	INSOLUBLE RESIDUE	0.41	≤ 1.5%	OK
	FREE LIME	0.91	.....
	L.S.F	0.90		OK
	M.S	2.19	.....
M.A	0.78	.....	
C ₃ S	47.00	.....	
C ₂ S	24.66	.....	
C ₃ A	2.07	≤ 3.5% for S.R.P.C	OK	
C ₄ AF	16.39	.....	

PHYSICAL TEST		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	133	≥ 45 min	OK
	Final	3:10	≤ 10 hr	
Fineness (Blaine)		3382	≥ 2800Cm ² /gm for O.P.C. ≥ 2800 Cm ² /gm for S.R.P.C	OK
Compressive Strength	2day	17.54	≥ 10 MN/m ²	OK
	28day		≥ 32.5 MN/m ²	
Soundness (Autoclave)%		0.12	≤ 0.8	OK
Residue on sieve%	90 μm	7.24		
	180 μm	0.23		

* According to I.Q.S No. 5/2019

Final Result Acceptable

علي ناهي ساجت
Plant manager

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Production manager

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Quality manager