

الشركة العامة للسمنت العراقية

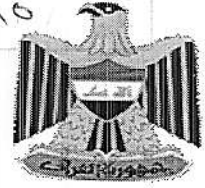
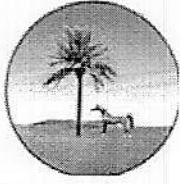
IRAQI CEMENT STATE CO.

معمل سمنت بابل

BABIL CEMENT PLANT

REPORT OF CEMENT QUALITY

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



Reference number

// سمنت مجيز
مم ٢٠٢٠/١١/٣ لغاية ٢٠٢٠/١١/٣١

Type of cement // مقاوم (شهادة فحص شهرية)

Factory / Babil Cement Plant

Sampling date: - / / 2020

Testing date: - / / 2020

CHEMICAL ANALYSIS

COMPONENT %	TEST RESULT	LIMITS	CONFORM
SiO ₂	20.84	.....	
Al ₂ O ₃	4.29	.....	
Fe ₂ O ₃	5.32	.....	
CaO	62.71	.....	
MgO	2.45	≤ 5%	OK
SO ₃	2.11	≤ 2.5% if C ₃ A < 5 ≤ 2.8 % if C ₃ A > 5	OK
LOSS ON IGNITION	1.84	≤ 4%	OK
Total	99.28		
INSOLUBLE RESIDUE	0.56	≤ 1.5%	OK
FREE LIME	1.46	.....	
L.S.F	0.91		OK
M.S	2.17	.....	
M.A	0.81	.....	
C ₃ S	48.54	.....	
C ₂ S	23.12	.....	
C ₃ A	2.38	≤ 3.5% for S.R.P.C	OK
C ₄ AF	16.18	.....	

PHYSICAL TEST

		TEST RESULT	LIMITS *	CONFORM
Setting Time	Initial	122.70	≥ 45 min ≤ 10 hr	OK
	Final	0.13		
Fineness (Blaine)		3371.90	≥ 2800Cm ² /gm for O.P.C. ≥ 2800 Cm ² /gm for S.R.P.C	OK
Compressive Strength	2day	22.21	≥ 10 MN/m ² ≥ 32.5 MN/m ²	OK
	28day			
Soundness (Autoclave)%		0.11	≤ 0.8	OK
Residue on sieve%	90 μm	4.18		
	180 μm	0.52		

* According to I.Q.S No. 5/1984-- المحدثه / 2019

عوض كاظم عبد الامير
Plant manager

عامر محمد عباس
Product manager

Final Result Acceptable

نورس عدنان محمد
Quality manager