Ministry of Works



MED/BML/L-082/23

Thursday, February 23, 2023

AL MANARTAIN COMPANY AND ALI ALSHEAB GROUP W.L.L Flat 1, Bldg 221, Road 389, Block 357, Al Burhama Kingdom of Bahrain

Dear Sirs.

CONCRETE MIX COMPLIANCE CERTIFICATE NO. 507 MIX REFERENCE NO. 20/SRC/PWA

Thank you for your letter, dated Thursday, 16 February 2023, enclosing production results of your mix reference **20/SRC/PWA** of Grade 20 N/mm² SRC. I enclose herewith the renewal certificate of this mix.

Yours faithfully,

Amal A.Nabi Abdulla Khalaf

Director,

cc:

Materials Engineering Directorate

cir, 180, 1100-5 MTR

Building Materials and Chemical Analysis Laboratory Section, MED

QMS – H.P.C&M.D., Ministry of Housing



Certificate No: 507 Control No: 20230222-00639

RENEWAL OF COMPLIANCE CERTIFICATE READY MIXED CONCRETE

Company: AL MANARTAIN COMPANY AND ALI ALSHEAB GROUP W.L.L

MOW Mix designation : 20/20 SRC
Ministry of Housing designation : 20/20 SRC
Suppliers Mix reference No. : 20/SRC/PWA

Test results from the normal production of this mix are been examined and assessed. These results demonstrate continued compliance with specified requirements.

The analysis details and current margin are as given below.

Sampling period	29/11/2022	29/11/2022 to 08/01/2023	
No. of test results	40		
Mean Strength	33.1	N/mm ²	
Standard Deviation	1.42	N/mm ²	
Current Margin	3.0	N/mm ²	

Note: The concrete cubes compressive strength results, standard deviation is skeptical.

The supplier code for this mix is **20/SRC/PWA**. This reference code must be quoted on each delivery ticket.

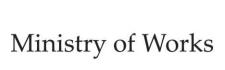
Compliance Certificate **No. 507** is valid for a period of one year from the date of issue or as the date stated below.

Date of issue : 23/02/2023

Date of expire : 28/02/2024

MED APPROVED

Ahmed Yusuf Al-Hadi
A/Chief, Building Materials & Chemical Analysis Laboratory





Certificate No: 507 Control No: 20230222-00639

COMPLIANCE CERTIFICATE READY MIXED CONCRETE

Company: AL MANARTAIN COMPANY AND ALI ALSHEAB GROUP W.L.L

MOW Mix designation : 20/20 SRC
Ministry of Housing designation : 20/20 SRC
Suppliers Mix reference No : 20/SRC/PWA

MIX DESIGN DETAILS					
Materials	Type	Source	Quantity	Units	
20 mm Aggregate	Limestone U.A.E.	UCO Marine	790	Kg/m³	
10 mm Aggregate	Limestone U.A.E.	UCO Marine	380	Kg/m³	
0-5mm Aggregates	Limestone U.A.E.	UCO Marine	200	Kg/m³	
Marine Sand	Washed Marine Sand	UCO Marine	550	Kg/m³	
Cement	SRC	FALCON Cement	280	Kg/m³	
Water	Deionized	R.O Plant	180	l/m³	
Admixture	ISOLA PS-9	ISOLA	3.2	Kg/m³	
	ISOLAPLAS BT-65	ISOLA	3.2	Kg/m³	

Date of first issue : 01/03/2021 Date of expire : 28/02/2024

"The Contractor shall forward full details of the mix to the S.O. for approval. When the mix has been approved, no variations shall be made in the proportions, the original source of the cement and aggregates or in the type, size and grading zone of the latter without the consent of the S.O. who may require further tests to be made."

This concrete mix certificate is been considered withdrawn if the approval of cement, PFA and micro silica sources are not renewed and/or removed from the current MED, list of approved manufacturers of cement, PFA and micro silica. Likewise, it is at suspension if the aggregates materials are not compliance with present MOW Standard Specification, the status is in the issued up to date status summary.



Ahmed Yusuf Al-Hadi
A/Chief, Building Materials & Chemical Analysis Laboratory







Certificate No: 507 Control No: 20230222-00639

COMPLIANCE CERTIFICATE READY MIXED CONCRETE

Company: AL MANARTAIN COMPANY AND ALI ALSHEAB GROUP W.L.L

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OTIAL PRIVIOUS PRIVING					
QUALITY CONTROL TEAM					
POSITION	NAME	TELEPHONE			
Technical Manager	ADEL ABBAS EBRAHIM	17 590097 - C/P 36055350			
Quality Control Engineer	Ahmed Husham	36895369			
Plant Operator 1	Vinod Sivadasan	17701205			
Plant Operator 2	Pradeepa Kumar	17701205			
Mat. Technician	Ammar Jaafer Salman	17701205			
Mat. Technician	Husain Ali Marzooq	17701205			
Mat. Technician	Ahmed Abdulla	36895534			
Mat. Technician	Sumesh Pullayikkodi	36895515			
Mat. Technician	Aswin Raj Ganesan	17701205			
Mat. Technician	Narayanan Melaparambath	17701205			
Mat. Technician	Sarin Chandran Pullaikodi	17701205			
Mat. Technician	Abdulhameed Jawad	36055374			

Your attention is drawn to Clause B. Stage 2 of The Materials Engineering Directorate quality assurance procedures for suppliers.

"Random inspection and sampling including reviews of production controls and engineering support."

MED APPROVED

Ahmed Yusuf Al-Hadi

A/Chief, Building Materials & Chemical Analysis Laboratory