

Ministry of Works



وزارة الأشغال

MED/BML/L-229/22

Tuesday, September 20, 2022

AL MANARTAIN COMPANY AND ALI  
ALSHEAB GROUP WLL

P.O Box 926, Flat 1, Bldg 221, Road 389, Block 357,  
Al Burhama,  
Kingdom of Bahrain

Dear Sirs,

**CONCRETE MIX COMPLIANCE**  
**CERTIFICATE NO. 646**  
**MIX REFERENCE NO. 45/OPC/PWA**

Thank you for your letter dated Tuesday, 06 September 2022, enclosing production results of your mix reference **45/OPC/PWA** of Grade 45 N/mm<sup>2</sup> OPC. I enclose herewith the renewal certificate of this mix.

Yours faithfully,

***Amal A. Nabi Abdulla Khalaf***  
***Director,***  
***Materials Engineering Directorate***

cir, 180, 1100-5 MTR

cc: Building Materials and Chemical Analysis Laboratory Section, MED  
QMS – H.P.C&M.D., Ministry of Housing

MED APPROVED

Certificate No. 646



Certificate No: 646

Control No: 20220907-00531

**RENEWAL OF COMPLIANCE CERTIFICATE**  
**READY MIXED CONCRETE**

**Company :** AL MANARTAIN COMPANY AND ALI ALSHEAB GROUP WLL

**MOWMAUP Mix designation :** 45/20/OPC  
**Ministry of Housing designation :** 45/20 OPC  
**Suppliers Mix reference No. :** 45/OPC/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.

<b>Sampling period</b>	21/05/2022 to 29/06/2022	
<b>No. of test results</b>	80	
<b>Mean Strength</b>	66.3	N/mm <sup>2</sup>
<b>Standard Deviation</b>	3.0	N/mm <sup>2</sup>
<b>Current Margin</b>	3.0	N/mm <sup>2</sup>

The supplier code for this mix is **45/OPC/PWA**. This reference code must be quoted on each delivery ticket.

Compliance Certificate **No. 646** is valid for a period of one year from the date of issue or as the date stated below.

**Date of issue :** 20/09/2022  
**Date of expire :** 07/05/2023

MED APPROVED

**Ahmed Yusuf Al-Hadi**  
**Head, Building Materials Laboratory**



Certificate No: 646

Control No: 20220907-00531

**COMPLIANCE CERTIFICATE**  
**READY MIXED CONCRETE**

Company: AL MANARTAIN COMPANY AND ALI ALSHEAB GROUP WLL

MOWMAUP Mix designation : 45/20/OPC  
 Ministry of Housing designation : 45/20 OPC  
 Suppliers Mix reference No : 45/OPC/PWA

MIX DESIGN DETAILS				
Materials	Type	Source	Quantity	Units
20 mm Aggregate	Limestone U.A.E.	UCO Marine	800	Kg/m <sup>3</sup>
10 mm Aggregate	Limestone U.A.E.	UCO Marine	400	Kg/m <sup>3</sup>
0-5mm Aggregates	Limestone U.A.E.	UCO Marine	200	Kg/m <sup>3</sup>
Marine Sand	Washed Marine Sand	Sand Washing Plant	490	Kg/m <sup>3</sup>
Cement	OPC	Saudi Cement Co.	380	Kg/m <sup>3</sup>
Water	Deionized	R.O Plant	140	l/m <sup>3</sup>
Admixture	ISOLA BT 65	ISOLA	3.76	Kg/m <sup>3</sup>
	ISOLA PS 9	ISOLA	4.5	Kg/m <sup>3</sup>

Date of first issue : 08/05/2019  
 Date of expire : 07/05/2023

"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.

MED APPROVED

**Ahmed Yusuf Al-Hadi**  
**Head, Building Materials Laboratory**



**COMPLIANCE CERTIFICATE**  
**READY MIXED CONCRETE**

**Company:** AL MANARTAIN COMPANY AND ALI ALSHEAB GROUP WLL

**MOWMAUP Mix designation :** 45/20/OPC  
**Ministry of Housing designation :** 45/20 OPC  
**Suppliers Mix reference No. :** 45/OPC/PWA

QUALITY CONTROL TEAM		
POSITION	NAME	TELEPHONE
Technical Manager	ADEL ABBAS EBRAHIM	17590097 - 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**  
**Head, Building Materials Laboratory**