



مجموعة النعيمي  
AL NUAIMI GROUP

# AL NUAIMI GROUP READYMIX

Durable Concrete, Solid Relations...

# AL NUAIMI GROUP READYMIX

Al Nuaimi group ready mix adopted the modernization as a policy to improve plant and equipments by importing latest technology in this field. We adopted a quality management system compliant with ISO 9001:2008 international standard. Due to our continuous effort to improve quality we have been accredited by the ministry of public work as an approved supplier of ready-mix concrete for their projects as well as the private sector. Apart from the Ministry, we have been accredited by Directorate of Defense, Dept. of Transport, Federal Electricity and Water Authority and various local bodies in GCC.

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## Group Overview

Al Nuaimi Group LLC is one of the largest Conglomerates in the United Arab Emirates with its influence spreading into the GCC countries through its business activities. Its main areas of business are in Aluminum and Glass, Application Engineering, Construction, Roads and Infrastructure, Foundations and Piling, General Transport and Ready mix Concrete. "One stop construction solutions" is not just our tagline. It's at the core of everything we undertake. At Al Nuaimi Group LLC, we're here to be your most trusted resource to ensure that your construction requirements meet the correct operational and performance requirements. Backed by our long industry experience and remarkable expertise with mission and commitment, we focus the specific needs of each project and provide high quality, cost-saving solutions to our clients.

The success of the Group has largely been due to its ability to forge Long Standing Alliances and joint ventures as well as healthy business practice through integrity and commitment. These relationships have been carefully nurtured so that Al Nuaimi Group now touches the lives of people in the U.A.E. and other GCC Countries in many different ways. The key factor of continued success of Al Nuaimi Group is our effective use and development of the knowledge, skills and attitude of all our employees.

## Products & Capabilities

Self Compacting Concrete ( Self Consolidation Concrete)  
Long Haul Concrete  
Durable Concrete  
Micro Silica (Silica Fume) Concrete  
Ground Granulated Blast Furnace Slag (GGBS) Concrete  
Fly Ash Concrete  
Natural Pozzolan Concrete  
Polypropylene fibres concrete  
Piling Concrete  
Marine Concrete  
Under Water Concrete  
Mass Concrete  
Prestressed Concrete  
Plain concrete  
Slip-form Concrete  
Lean Concrete  
High Strength Concrete  
High Early Strength Concrete  
Non-shrinking Concrete  
Air-entrained Concrete  
Light Weight Concrete  
Roller Compacted Concrete  
Shotcrete  
Grouts and Mortars



## Quality Control

Inspection points, inspected characteristics, acceptance criteria and inspection authority are identified and recorded for all inspection and testing activities.

Inspection and checking of all incoming materials are carried out to verify the compliance with the requirements as per documented procedures. The procedures ensure that such products are not used until inspected. Inspection scope covers general compliance of quantities and specifications with purchase documents.

Further technical tests are carried out to check materials compliance and fitness for use, such test mainly covers water. Cementitious, aggregates, sand, admixture and additives are accompanied by certificates of compliance from the supplier.

Finished products shall be subject to final inspection to ensure meeting physical and chemical characteristics requirements. Final inspection shall be based on daily samples taken from mixers.



## Plants & Capacity

Location	Plant	Brand	Capacity	Transit Mixer	Mobile Pumb
Ras Al Khaimah - UAE	CBP - 2	LIEBHERR	90 M <sup>3</sup> / Hr	30	6
Ras Al Khaimah - UAE	CBP - 3	LIEBHERR	120 M <sup>3</sup> / Hr		
Al Jaseera Ras Al Khaimah - UAE	CBP - 8	NUTEC	120 M <sup>3</sup> / Hr	15	4
MUSCAT - OMAN	CBP - 7	LINTEC	120 M <sup>3</sup> / Hr	20	5
Dammam - KSA	CBP - 201	LESAN	120 M <sup>3</sup> / Hr	25	6
Dammam - KSA	CBP - 205	STETTER	80 M <sup>3</sup> / Hr		
Hail - KSA	CBP - 202	LIEBHERR	120 M <sup>3</sup> / Hr	40	8
Hail - KSA	CBP - 203	STETTER	80 M <sup>3</sup> / Hr		
Turaif - KSA	CBP - 204	SIMEM	120 M <sup>3</sup> / Hr	10	4
Turaif - KSA	CBP - 206	LIEBHERR	50 M <sup>3</sup> / Hr		
KAIA Project - KSA	CBP - 207	SICOMA	100 M <sup>3</sup> / Hr	35	10
KAIA Project - KSA	CBP - 208	SICOMA	100 M <sup>3</sup> / Hr		



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## Major Projects

Project	Client	Contractor
King Abdulaziz International Airport Development - Phase 1	General Authority of Civil Aviation	Saudi Binladin Group
Al Jouf Cement Company	Al Jouf Cement Company	Chengdu Design and Research Institute
Hail Cement Company	Hail Cement Company	Chengdu Design and Research Institute
Cove Rotana	RAK Tourism Investment	KAZ Kamal Al Zuhairi Contracting
Emirates Cement Factory	Arkan Building Metrials Company	Chengdu Design and Research Institute
Union Cement Company	Union Cement Company	Chengdu Design and Research Institute
Saqr Port	Government Of Ras Al Khaimah	China Harbor Engineering Co.
Port Of Hulailah	Government Of Ras Al Khaimah	China Harbor Engineering Co.
RAK Mall	Line Investment Group	Al Nuaimi Group
Hilton Beach Club	Government Of Ras Al Khaimah	United Engineering Consultant



### Main durability issues of concrete in Arabian Peninsula :

- Damage caused by reinforcement corrosion. Corrosion damaged both the reinforcement itself and caused the surrounding concrete to crack and/or spall
- The concrete itself can be damaged by the effect of expansive salts. These salts absorbed by the concrete and they crystallize. This process involves expansive internal crystal growth stresses that cause the concrete to crack and spall
- Presence of moisture
- Presence of oxygen
- Non-alkaline or chloride – contaminated condition

### Carbonation

- Carbonation of concrete is the reaction of carbon dioxide, with the cementitious matrix of the concrete. If the water (Moisture) and oxygen are present, general corrosion can occur
- The rate of carbonation depends on:
  - The relative humidity
  - The permeability of the concrete
  - The cementitious content and type.

### Chlorides

The presence of chlorides, either in the original mix or entering the concrete from its surface. The electro-chemical process driven by the cell leads to corrosion of reinforcement which can also lead to cracking or spalling of the surrounding concrete. The two principal factors are:

- The quality and carbonation state of the concrete
- Exposure condition

### Other challenges

- very high temperature in the summer months
- Salt contamination is high in coastal regions and in some inland areas
- Temperature variations day to night in the inland area
- The high rate of water evaporation from the concrete
- The combination of high temperature and high humidity can make working conditions
- In the coastal areas in particular, the ground water and subsoils are likely to be contaminated with salts that are aggressive to concrete.



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The objectives in designing a structure are to ensure that it will fulfil its purpose with adequate strength and durability is constructed to an acceptable cost, and is aesthetically pleasing. General aspects of design, such as the choice of member shapes and dimensions, and the requirements for maintenance.

- Designing concrete to resist attack
- Concrete specification
- Ground granulated blastfurnace slag
- Pulverised-fuel ash
- Silica fume
- Controlled permeability formwork
- Effect on concrete properties
- Coatings
- Hydrophobic surface treatments
- Corrosion protection
- Corrosion inhibitors
- Cathodic prevention
- Corrosion-protected and corrosion-resistant reinforcing bar

### Construction Basics

For good performance, the basic requirements that should be addressed in each project's method statement for reinforced concrete construction include:

- Correct storage of raw materials at the batching plant
- Use of physically suitable and chemically clean materials in the concrete
- Good production control, particularly of the free water / cementitious ratio and the concrete temperature
- Adequate workability, to assist quick placement and compaction
- Good transport methods - to minimise time between mixing and placing
- Clean and uncomplicated formwork
- Clean, uncontaminated and uncongested reinforcement
- Adequate and robust reinforcement spacers for correct cover
- Suitable control of concrete on delivery, particularly of the slump at the time of placement to aid full, successful compaction
- Suitable placing techniques - to minimise handling and get concrete in place without contamination or delay

## Certificates & Awards



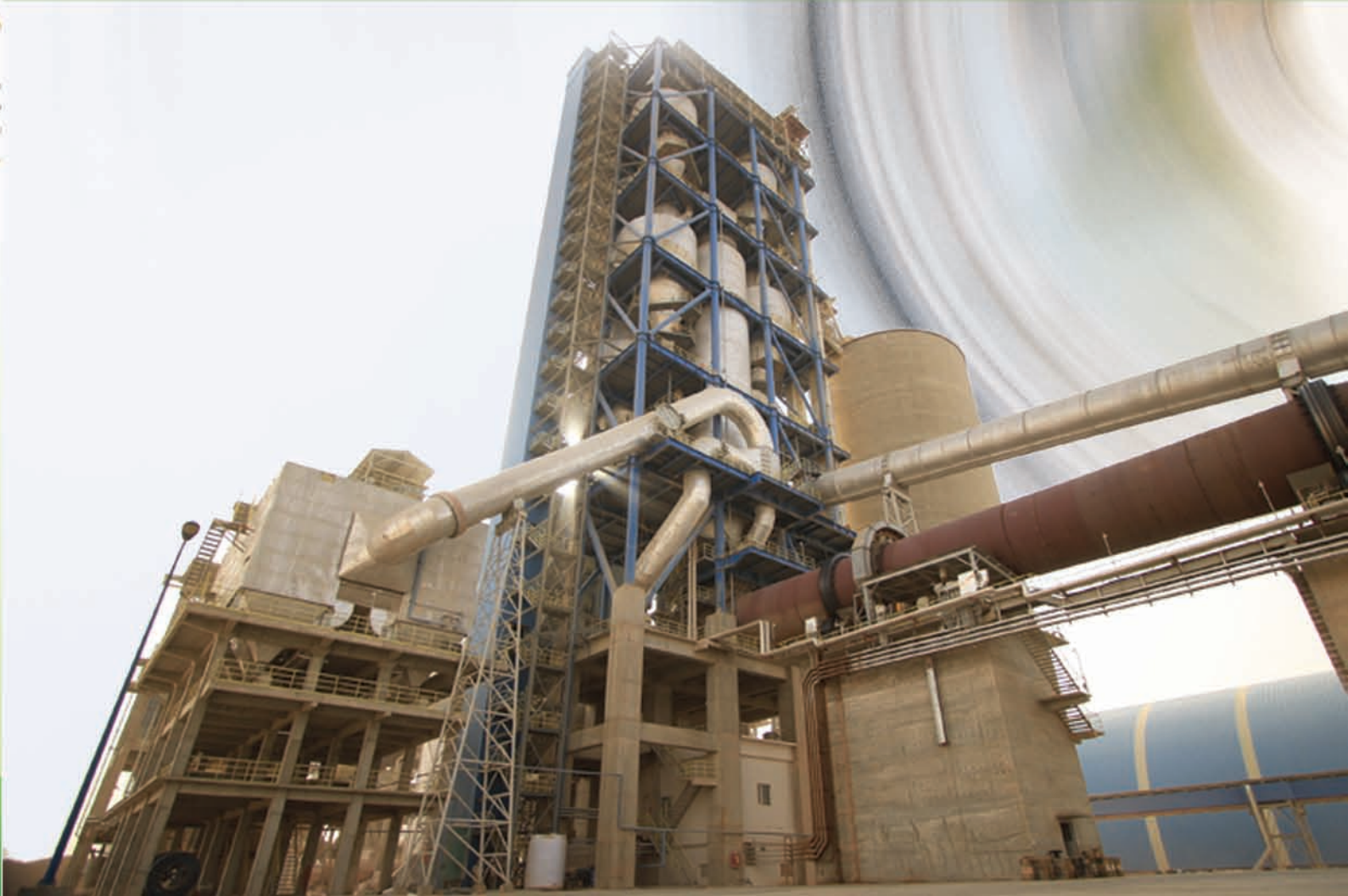
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AL NUAIMI GROUP

We have been very keen and honest in dealing with our customers since 1976, in order to meet their satisfaction by presenting a high-class and good quality of concrete. "Quality is never an accident. Quality is the result of intelligent effort."

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