Engineer Nabeel Mohammed AL Buenain
Project Executive Director
New Port Project
Qatar Transport Conference
30 May 2012
Vision

- Supporting the Qatar National Vision 2030
- Facilitating significant events, including the 2022 World Cup
- Dedicated to SH&E Stewardship
History

- On 19 June 2007 Emiri Decree No. 37 issued

- The New Port Project:
  - Strategic location
  - One of the world's deepest seaports
Objectives

- A leader in state-of-the-art technology
- Accommodates growth to 2030 and beyond
- Connections to internal Qatar rail and GCC rail
- Container capacity of 2 million TEU/year by 2016
- Reflects the country’s unique identity and culture through architectural design and environmental preservation
Project Scope

Project Elements:
1. The New Port
2. A new Naval Base for the Qatar Emiri Naval Forces
3. Marine canal for Economic Zone 3

Budget and Area:
- Total estimated budget is 26 billion QAR
- Total area is 26.5 square kilometers

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Project Projection on Doha

New Port

Naval Base

EZ3 Canal

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1. New Port

- Deepwater port - 17m CD
- Basin 3.8 km in length and 700 m wide
- 63 million m$^3$ of sand and rock excavated
- Access Channel:
  - Over 10 km long
  - 300 m wide
  - 15 m deep
  - 40 million m$^3$ dredged from main channel

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Container throughput Projections

Forecast of Container Throughput

Year

2005 2010 2015 2020 2025 2030

Throughput (TEU)

0 1,000,000 2,000,000 3,000,000 4,000,000 5,000,000 6,000,000 7,000,000

Actual Throughput

Container Terminal 1

Container Terminal 2

Container Terminal 3

Port Capacity

Annual Growth Rate

High 14%

Base 12%

Low 10%

Forecast Demand

## Traffic Forecasts

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<tr>
<th></th>
<th>Capacity</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>2030</th>
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<tbody>
<tr>
<td>General Cargo (tonnes)</td>
<td>1,766,000</td>
<td>1,427,901</td>
<td>1,532,000</td>
<td>1,522,000</td>
<td>1,639,000</td>
<td>1,766,000</td>
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<tr>
<td>Grain (tonnes)</td>
<td>1,000,000</td>
<td>163,705</td>
<td>384,866</td>
<td>559,829</td>
<td>749,177</td>
<td>959,161</td>
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<tr>
<td>Vehicles (no. units)</td>
<td>500,000</td>
<td>59,854</td>
<td>172,659</td>
<td>258,412</td>
<td>369,243</td>
<td>517,883</td>
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<tr>
<td>Livestock (tonnes)</td>
<td>37,500</td>
<td>12,277</td>
<td>16,700</td>
<td>19,500</td>
<td>21,800</td>
<td>24,300</td>
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</table>

Port will be further developed as General Cargo and Multi Use terminals reach capacity.
2. Qatar Emiri Naval Forces Base

- QENF and the QENF Training School
- Cover an area of 4.5 km²
- Accommodates vessels of the Qatar Emiri Naval Forces, Special Forces and visiting naval forces
- The basin will be:
  - 1.3 km long
  - up to 500 m wide
  - up to 12.5 m deep
3. Canal of Qatar Economic Zone 3

- The project only includes the construction of the canal and access channel. The new Economic Zone is envisaged to become an integrated economic development area that utilizes Qatar’s resources in a sustainable manner, bringing added value to Qatar’s Economy.

Qatar Economic Zone 3 Canal:
- 7 km long access channel
- Basin over 1.5 km in length and 500 m wide
- Over 7 million m$^3$ of sand and rock excavated from basin
- Supports emerging business activities in maritime sector
Packages

More than 30 packages including:

1. **Excavation**, Dredging, Reclamation and Breakwater, Quay Walls Construction

2. **Infrastructure:**
   - Electrical, Potable Water, Sanitary Sewer & Storm Water
   - Roads: 26 km Port – 27 km Navy

3. **Port Building (84):**
   - Concrete – 70,000 m² (43)
   - Workshops/Shades – 125,000 m² (41)

   **Navy Buildings (278):**
   - Concrete – 385,000 m² (191)
   - Workshops/Shades – 146,000 m² (87)

4. **Port Equipments:**
   - Quay cranes, yard cranes, cargo handlers & loaders.

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Port Basin and Inner Breakwater Excavation

Details:
Contract with China Harbour Engineering Company (CHEC) signed on 13 Mar 2011:
Contract Amount: 3.2 Billion QAR
Start Date: 24 January 2011
End Date: 6 August 2015

Scope:
• Excavation (and landfill) of 63 million m³ material
• Construction of 10 km quay wall

Current Status:
• Since January 2011, 18 million m³ of rock and sand excavated.
• Administration offices constructed; more than 900 pieces of heavy equipments delivered to site.

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Access Channel Dredging and Outer Breakwaters Construction

Details:
Contract with Middle East Dredging Company (MEDCO) signed on 18 Mar 2012:
Contract Amount: 4.5 Billion QAR
Start Date: 18 March 2011
End Date: 16 January 2016

Scope:
• Dredging of access channel, 10km long, 300m wide, 15m deep
• 45 million m³ material (incl. rock)
• Land fill and 4.5km² reclamation
• Construction of a 3.1km breakwater and 10km revetment

Current Status:
• Kick-off meeting held on 22 March 2012
• Mobilizing equipment

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Future Packages

New Port Project:

- Container Terminal Infrastructure & Utility Buildings
- Commercial Terminal Infrastructure & Buildings
- Primary Electrical Supply
- Coast Guard Infrastructure and Buildings
- Port Administration & Government Offices Infrastructure & Buildings
- Port Marine Services Area Infrastructure & Buildings
- Port Vehicle Traffic Management System
- Port Security Operation
- Container Terminal Ship to Shore Cranes and Yard Cranes
- Commercial Terminals Port Equipment
- Tugboats
Future Packages

Qatar Emiri Naval Base
- Quay Wall and Basin Revetments
- Infrastructure, Utility Buildings and Security Facilities
- Buildings
- Access Bridge
- Security Facilities
- Equipment Procurement and Installation

Qatar Economic Zone 3 Canal
- QEZ3 Canal Excavation, Quay Walls and Channel Dredging
# Programme

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<td>Container Terminal Infrastructure and Buildings</td>
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<td>Coast Guard Facility, Port Administration and Port Marine Unit</td>
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**Design**

**Procurement**

**Construction**

## Programme

### Contract Packages

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### Phases

- **Design**
- **Procurement**
- **Construction**

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Tender Principles

- **Four Procurement Routes being used:**
  - Open Tender
  - Restricted Tender
  - Expression of Interest
  - Prequalification
- Process involves Client/Consultant Team, Technical and Tender Committees
- Tenders consist of separate Technical and Commercial Submissions
- Tenders reviewed against pre-approved evaluation procedures
- Evaluations undertaken by joint Client/Consultant Team under strict confidentiality
- Technical Evaluation Report is approved by Technical and Tender Committees
- Only technically compliant tenders progress to Commercial Evaluation
- Commercial Evaluation Report is approved by Tender Committee
- Recommendation to Award is approved by Tender Committee, Steering Committee, Prime Minister and Ministry of Finance

Road Network

- 26 km’s of road within the Port
- 27 km’s of road in the Naval Base
- Traffic Impact Study completed – Investigated the impact of the port on Qatar’s road network
- Ashghal constructing the 2 main intersections with external highways
- Link to new orbital network

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Railway

- Rail intermodal terminals planned for the port
- Planned connections with Qatar Railway and GCC Railway
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