

Hamad International Airport - Cargo Terminal 02

Doha, State of Qatar



OWNER:
HAMAD INTERNATIONAL AIRPORT

OWNER'S REPRESENTATIVE:
MR. BADR AL-MEER

BNP PROJECT MANAGER:
FELIX ROSBERGEN

LOCATION:
DOHA, STATE OF QATAR

COMPLETION DATE:
TBD

MHS CONSTRUCTION AMOUNT:
TBD

TOTAL CONSTRUCTION AMOUNT:
TBD

SCOPE OF SERVICES:
CONCEPTUAL DESIGN
DESIGN DEVELOPMENT
CONTRACT DOCUMENTS
BIDDING AND PROCUREMENT
CONSTRUCTION MONITORING

RELEVANCE:
ULD HANDLING SYSTEM
CONSIGNMENT HANDLING SYSTEM
SPECIAL PRODUCT HANDLING
AUTOMATED CARGO SYSTEM

In 2016, BNP was retained by Hamad International Airport (HIA) to be the Material Handling System (MHS) consultant for the proposed Cargo Terminal 02 in Doha, Qatar. Upon completion, the new Terminal will provide a minimum operational capacity of 3,000,000 tons per annum. Combined with the capacity of the existing Cargo Terminal 01, the cargo campus at HIA will provide a total capacity of 4,400,000 tons per annum.

As the MHS consultant, BNP was commissioned to provide services from conceptual design through construction monitoring. The design of the terminal is being developed and coordinated in a 3D/BIM environment. The terminal will be constructed and commissioned in phases to align with the demand growth; the 1st phase will provide approximately 1.5 mln tons per annum capacity.

Site size constraints and HIA's aggressive growth rates require a high throughput, multi-level facility containing three workfloor levels, an airside interface level with dolly docks and reefer truck interfaces, and nine levels of ULD storage. The design of the terminal features a unique combination of the 'lift and run' and 'ETV' concepts for ULD handling and an automated monorail distribution system with 36 hoists for consignment bins. The MHS includes 24 ETVs and 20 ULD hoists for over 5,300 storage positions, and sixteen AS/RS cranes for over 6,800 bin storage positions. Approximately 300 workstations are planned across 3 levels for build and break operations.