



AL NUAIMIAH TOWERS—AJMAN COMPLEX OF 15 No. (G+15) RESIDENTIAL BUILDINGS



Project Data Sheet

Year:
2003-2004

Location:
Ajman, UAE

Contractor:
Al Zamalek General Contracting

Consultant:
Canadian Consultant

Division:
NASA Structural Systems LLC

Scope:
Post-Tensioning Installation, Stressing and Grouting Operations

Description:

Building upon its significant track record in the Middle East, NASA (BBR) Structural Systems LLC have recently completed the design and construct post-tensioning works associated with a prestigious residential development in Al Nuaimiah for H. H. Sheikh Humaid Bin Rashid Al Nuaimi, the Ruler of the Emirate of Ajman. The complex consisted of 15 apartment buildings, each having 17 suspended flat plate, post-tensioned slabs with a combined total floor area of 180,000m².

The complex was the first of its type in Ajman, and the completion of the suspended floors at a rate of 3 levels per building per month (using only one set of formwork), made possible through the post-tensioned solution, facilitated the earliest onset of foreign investment in the Emirate of Ajman and offered neighbouring residents of Dubai & Sharjah the earliest opportunity to re-locate to more affordable accommodation in the Emirate of Ajman.

Features:

Post-tensioned floors were adopted to permit an economical solution satisfying the project requirement of thin slabs, minimal use of false ceilings, whilst achieving the earliest possible completion date. The slabs were typically 230mm thick for spans of up to 8500mm, and increased locally to 250mm in the location of 10,800mm spans.

NSSL (BBR) Responsibilities:

- Post-tensioning Design and Shop Drawings
- Supply of Materials & Equipment
- Supply of Supervision
- Post-tensioning Installation, Stressing and Grouting Operations

Following the success of this project, a second complex of 16 Residential Buildings has been proposed in nearby Al Khor, and despite the fact that contracts have been let to 4 Main Contractors, NSSL (BBR) have managed to secure the post-tensioning works associated with all of these buildings. Post-tensioning site works are currently in progress for 12 of these 16 new buildings.

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