

**Commercial Buildings****Reference Details:**

Owner Singapore Housing & Development Board +++ **General Contractor** Shimizu Corporation +++ **Sub-Contractor** Ultraco Structural Systems Pte Ltd. +++ **Architect** RSP Architects Planners & Engineers (Pte)Ltd.

DSI Services Design, supply and installation of more than 900tons DYWIDAG bonded post-tensioning tendons.

**34 story tall office tower post-tensioned with DYWIDAG bonded tendons****New administration building for the Housing & Development Board of Toa Payoh, Singapore**

The extensive building complex consists of two towers, one with 29 and the other with 34 floors, 3 levels of underground parking garage, two main and four auxiliary buildings and a four-level bus station.

All floor levels were post-tensioned with DYWIDAG bonded post-tensioning tendons.

DSI had already been involved in the project engineering at the planning stage.

The slab systems of the underground parking facility and auxiliary buildings use traditional post-tensioned flat slabs, whereas the remaining units were constructed using post-tensioned cast-in-place beams with precast elements and hollow core slabs.

The contract included supply and installation of more than 900 tonnes of Dywidag bonded post-tensioning tendons.

Installation required the fabrication of special climbing scaffolding which was developed and designed in close cooperation with the client.

This substantially facilitated the stressing operation of the post-tensioning tendons.