

Completed Project

# DAMANSARA CITY



[Perspective view after completion]

Over 300 zones made possible the nearly impossible task of placing concrete in an underground parking area 29 times the size of a World Cup soccer field.

Part of Vision 2020, the Malaysian Government's economic reform initiative to propel Malaysia into the league of advanced economies, Damansara City is one of several projects to renovate 12 relatively underdeveloped areas in Kuala Lumpur.

The most challenging aspect during construction was figuring out how to lay concrete over a vast space, how to install transfer slabs on Level 6 which is 12 meters above ground, and how to handle delayed access to blueprints designed by consultants.

The building's underground (B6-GF) parking space boasts an



[Resident-only swimming pool]

immense scale with an area totaling 210,000 m<sup>2</sup>, 26 times the size of a soccer field, and a maximum length of 339 m.

Unique local circumstances allowed only 150-200 m<sup>3</sup> of concrete to be placed per day. To tackle this problem, Ssangyong E&C designed and implemented 50 zones for each basement floor (a total of 300 zones over all basement floors) and placed concrete separately on vertical/horizontal parts of the framework.

Laying concrete for slabs, beams, walls, and pillars according to the zoning plans and project schedules in this massive space, 29 times the size of a soccer field, was not an easy challenge.



[Resident-only cinema]



- **Project Name:** DAMANSARA CITY PARCEL 1
- **Location:** LOT 7599, Jalan Damanlela, Bukit Damansara, Pusat Bandar Damansara, 50490 KL
- **Client:** DAMANSARA CITY SDN BHD (HONGLEONG GROUP\_GUOCO LAND MALAYSIA)
- **Project Value:** USD 105 million
- **Project Period**
  - Section 1: September 9, 2011 – October 25, 2013 (26 months)
  - Section 2: September 9, 2011– September 13, 2013 (25 months)
  - Section 3: September 9, 2011– March 31, 2016 (55 months)
- **Overview**
  - Two tower buildings (Level 27)
  - Parking Lot: B 6-Level 5 (Capacity: 2,825 vehicles)
  - Common Areas: Swimming Pool (Level 6), Lobby & Water Feature (GF)
  - Residential Tower: 370 units (including 10 penthouses)
  - Site Area: 34,490 m<sup>2</sup>
  - Gross Floor Area: 291,235 m<sup>2</sup>



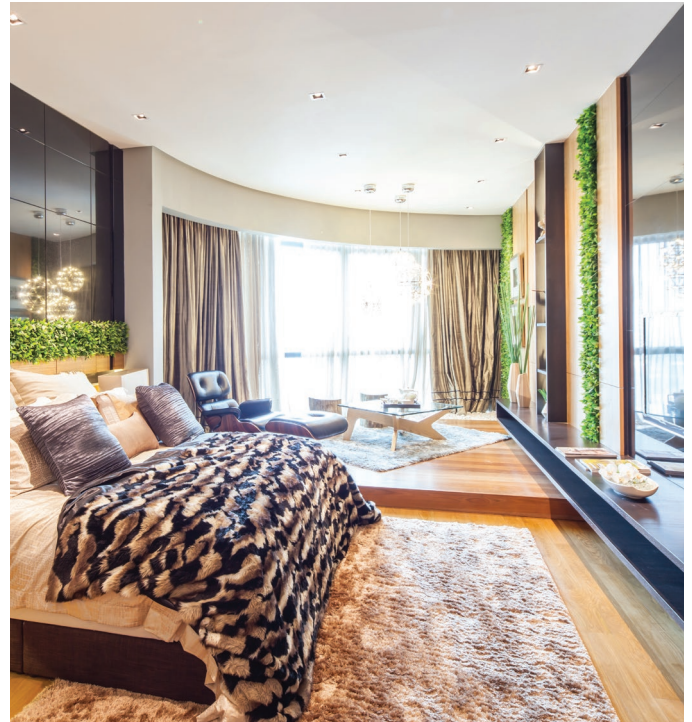
[Resident-only swimming pool]



[Perspective view after completion]



[Resident-only entrance]



[Interior of the DAMANSARA CITY]



[Interior of the DAMANSARA CITY]

In terms of transfer slabs, laying concrete for 1.2-meter-thick slabs in a 3,700-square-meter area on Level 6, which is 12 meters above ground, was extremely dangerous, so the company strived to ensure safety in all of its operations. To support these structures, lower system supports (12 m) were installed. At the same time, construction plans and a variety of safety/structure-related factors were examined several times, to lay concrete and install supports on the lower five levels during the last phase without causing a delay in the construction schedule. Furthermore, when changes and delays in blueprint designs from consultants caused delays in construction schedules and forced some subcontractors to abandon their work, Ssangyong E&C proactively responded by setting up a weekly coordination meeting

on blueprints while suggesting the company's own designs and persuading the project owner to proceed with concrete placement accordingly.

To reduce construction time, each concrete placement procedure finished after midnight—every day for over three years. Moreover, the company thoroughly met high-quality standards demanded by on-site inspectors, by enhancing the quality level of subcontractors through direct supervision of workers.

In March 2016, the concerted efforts and passion of 45 Ssangyong E&C employees who had spent time at the site came to fruition with the completion of Damansara City. **S**