

PROJECT DATA SHEET



Client: HSL Constructor Pte Ltd

Project Title: Proposed Additions and Alterations (A&A) Works to the Existing Berth J9 and Moon Pools at Jurong Port

Completion: February 2021

Location: Singapore

Services: Tender Design

Berth J9 at Jurong Port was built in the 1960s by the Economic Development Board (EDB) and was upgraded in the 1990s by JTC Corporation (JTC). The berth is nearing the end of its design life, and Jurong Port proposes to upgrade the berth and the adjacent moon pool area to meet future operational needs. One requirement is for the berth to be capable of handling vessels ranging from 400 DWT to 70,000 DWT, and part-laden vessels of up to 80,000 DWT.

Paaras Marine Solutions was engaged by HSL Constructor Pte Ltd, a leading international infrastructure construction company, to provide tender design services for the proposed upgrading works within a very tight deadline. The scope of services included:

- Optimising the layout and structural system, while complying with the Employer's Requirements specified in the tender documents.
- Preliminary berthing analysis to confirm the type, size and spacing of fenders required to accommodate the full range of design vessels.
- Preliminary design of deck-on-pile structures for the berth and moon pool area.
- Preliminary design of dredging, under-deck revetment and scour protection works in the dredged berth pocket.
- Preliminary design of mechanical, electrical, and fire-safety systems.
- Preparation of tender drawings and supporting design reports.

