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## Construction of a 10,000-ton Class Floating Dock (FD)

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Our company will construct a new 10,000-ton class Floating Dock (FD) to contribute to social infrastructure development, particularly port facility improvements including outer facilities, aimed at ensuring public safety and security through the Ministry of Land, Infrastructure, Transport and Tourism's national resilience enhancement and disaster prevention/mitigation initiatives. The construction schedule targets completion within fiscal year 2027.

The new vessel offers the following features that are expected to improve worksite productivity, ensure labor safety, and reduce environmental impact compared to existing FDs:

○**Enhanced Jib Crane Performance and Remote Operation** 《Improved Productivity & Safety》

Compared to existing FDs, the approximately 50% increase in jib crane performance enables flexible handling of reinforcement unit assembly and larger steel formworks, contributing to improved worksite efficiency and labor reduction. Additionally, remote crane operation allows a single operator to handle both rigging and crane control tasks, promoting labor reduction and enhanced workplace safety.

○**Concrete Placement Equipment and Vehicle Access Facilities** 《Enhanced Productivity》

The new vessel is equipped with a concrete distributor system, enabling reduced concrete placement time, decreased labor requirements, and reduced physical workload.

Furthermore, with its permanent ramp way, pump trucks and material transport vehicles can directly access the FD, significantly improving operational efficiency, particularly for lower-level work operations.

○**Enhanced Water Pumping System with Remote Automatic Control** 《Improved Productivity & Safety》

Compared to existing FDs, the approximately 60% increase in water pump capacity reduces caisson launching time and enables flexible response to sudden changes in marine conditions.

Through centralized remote control (management) of water ballasting operations, the vessel can automatically maintain optimal trim and stability, ensuring safe caisson launching operations.

○**Battery Storage System and External Power Supply** 《Environmental Impact Reduction》

The battery storage system installed in the new vessel is a hybrid power supply system that stores surplus electricity during low-load periods when cranes and pumps are inactive, working in conjunction with the generator.

By eliminating energy losses during low-load periods, we can reduce environmental impact.

In the future, when shore power becomes available at the FD mooring berth, the jib crane can be powered by this external power source, enabling significant reduction in CO2 emissions.

(Reference: Conceptual Image)



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