Risk Management of Current Mega Project in Japan

Re-Expansion of Haneda Air Port

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Abstract

In Japan, Japanese government are now constructing new run-way of Haneda Air Port. Construction of this run-way needs a large amount of money and should keep construction schedule sharply. Therefore they have adopted design-Build Method in order to avoid construction schedule delay and cost overrun. In the design-build system, in principal, the contractor is responsible for all risks since successful contractor carries out both design and construction.

In the process of this project, there were huge debates among the type of construction. First one is steel pipe piles supported structure. Second is completely floating system. Last one is Hybrid structure using steel pile jackets and land reclamation. These three structure types is formally applied to small scale structures such as berths in costal areas. But Haneda Re-expansion project is large scale, and construction methods are very closely related to the designs. So Construction is inevitable related to design, therefore design-build system is suitable for this projects.

In this paper, I would like to show the selected construction methods that is hybrids structure and list up the risks on the all parties being involved in this projects.

Nippon Steel is one of the joint venture that would got design-builds contract. From the view point of one of the contractor, I would like to show the future direction of managing the risks during project development.

Key Wards: Re-Expansion of Haneda Air Port, Design-Build System, Risk Allocation