

- In achieving automation of the design quality verification process, work efficiency would be increased and frequency of error would also be reduced, thus increased productivity in construction could be fulfilled.
- This collaborative system prompts to enhance collaboration efficiency in providing the environment for an efficient and rational decision-making process between stakeholders.
- The developments above could reduce design tasks and shorten approval processing-time by 30% compared to the existing traditional process. Improving design quality and minimizing avoidable design changes is significant for the improvement of building quality.

Keywords	Open BIM	Design Quality Assurance	Design Documents Optimization	Cooperation System	Seumter (Korea Government Architectural Permission System)
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