

## Research of Applicable Ground Reinforcement Method in Double-Deck Tunnel Junction

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**Abstract :** Because of the large economic losses caused by traffic congestion in metropolitan areas, various studies on the underground network design and construction techniques has been performed various studies in the developed countries. In Korea, it has performed a study to develop a versatile double-deck of deep tunnel model. This paper is an introduction to develop a ground reinforcement method to enable the safe tunnel construction in the weakened pillar section like as junction of tunnel. Applicable ground reinforcement method in the weakened section is proposed and it is expected to verify the method by the field application tests.

**Keywords :** double-deck tunnel, ground reinforcement, tunnel construction, weakened pillar section

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