

## **Development of repairing technique and reinforcing technique of a structure**

### **[ Point ]**

This study was conducted for the purpose of extracting the external cost items with large influence in maintenance as well as repairing construction work of a road structure, reviewing the cost assessment method of such items, and reviewing the construction method in which total cost including the external cost could be reduced. For this reason, pavement repairing construction work was selected as a work-type with a great impact among other maintenance and repairing construction works, the external cost items associated with construction work were measured at an actual construction field, and study was conducted about degree of impact of such items and assessment method. Furthermore, case study was conducted for studying the degree of impact on the total cost by the differences in construction forms. Based on these study results, field application manual (proposal) was created in which total cost assessment was conducted depending on field conditions.

Keywords: external cost, pavement repairing construction work, traffic regulation, traffic jam, total cost