

## **Test research regarding minimum maintenance of concrete bridges**

### **[ Point ]**

In order to hold-down future maintenance management cost of road bridges, bridge construction, based on minimum maintenance concept, which bring the longest lifetime with minimum maintenance management to realization, is necessary. Especially, as present technological assignment, improvement of salt damage measure is important. In the past, salt damage measure was compliant to the “salt damage measure index for of road bridges”, which was issued in 1984. In the revision of the “specifications for highway bridges”, examination of clear specification of the design year 100, salt damage measure was also necessary to review the contents for corresponding to the “year 100”. In this test research, we performed the actual condition researches regarding concrete road bridges’ durability, maintenance management and cost, including efficiency of pas salt damage measure. Based on the result and other research results, we proposed a new design method regarding important blushing as salt damage measure. Moreover, based on the design method, we showed the guideline for improvement of the durability of concrete bridges, in case of aiming design year 100. This guideline has already reflected in the “specifications for highway bridges”, which was revised in December 2001.

Keyword : concrete bridge , life-span extension , salt interfusion , rebar corrosion , blushing