

**Expressway Standard Technical Specifications by NEXCO**

**Outline of Standard Technical  
Specification for Maintenance**

**Nippon Expressway Research Institute Company Limited**

**April, 2013**

# Table of Contents

<b>Chapter 1 General Description .....</b>	<b>1</b>
1-1 Topography and Meteorology.....	1
1-2 Features of Expressways .....	2
1-2-1 History of expressways construction .....	2
1-2-2 Features .....	3
1-2-3 Current Situation .....	4
<b>Chapter 2 Maintenance .....</b>	<b>6</b>
2-1 Preventive Maintenance Applying Asset Management .....	6
2-2 Service level and Indices .....	8
2-3 Inspection and Investigation.....	9
2-3-1 Inspection Items .....	10
2-3-2 Inspection Methods .....	10
2-3-3 Evaluation and Diagnosis .....	13
2-4 Road Information Management System (RIMS) .....	15
2-5 Maintenance Planning.....	18
2-6 Maintenance Works .....	21
2-6-1 Routine Maintenance.....	21
2-6-2 Repairing.....	22
2-6-3 Curative Maintenance and Strengthening .....	23
2-6-4 Traffic Safety Measures .....	26
<b>Chapter 3 Safety Measures for Maintenance Works on Expressways.....</b>	<b>28</b>
3-1 Collecting and Providing Information.....	28
3-2 Safety Measures .....	29