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**Technical guideline for monitoring and effectiveness evaluation
of mangrove ecological restoration**

红树林生态修复监测和效果评估技术指南

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed by the Ministry of Natural Resources of the People's Republic of China.

This document is under the jurisdiction of the National Technical Committee for Marine Standardization (SAC/TC283).

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Technical Guidelines for Monitoring and Effect Evaluation of Mangrove Ecological Restoration

1 Scope

This document provides the workflow for monitoring and effect evaluation of mangrove ecological restoration, data collection and analysis, ecological monitoring and effect evaluation guidelines.

Guidelines for determining targets, ecological monitoring plans, and restoration effectiveness evaluation.

This document applies to the monitoring and effectiveness evaluation of mangrove ecological restoration within the waters under the jurisdiction of the People's Republic of China.

2 Normative references

GB/T 12763.6

GB 17378.2

GB 17378.3

GB/T 41339.1

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 mangroves

A plant community distributed in the intertidal zones of tropical and subtropical regions, with mangroves as the main body.

3.2

In areas where mangroves are degraded or lost, efforts should be made to eliminate stress factors, improve habitat conditions, and artificially introduce mangrove plant propagules/seedlings.

Measures are taken to promote the formation of a stable ecosystem with similar ecological functions as native mangroves.

3.3 Survival rate

The percentage of surviving seedlings in the restoration area to the number of initially planted seedlings.

3.4 preservation rate

After the seedlings in the restoration area are planted and survive, the number of seedlings that are still growing normally during the monitoring period accounts for the percentage of the number of initially planted seedlings.

4 Workflow

4.1 The work process of monitoring and effect evaluation of mangrove ecological restoration includes data collection and analysis, formulation of ecological monitoring and effect evaluation plan, There are four steps to implement ecological monitoring and restoration effect evaluation, see Figure 1.