

ICS 93.020
CCS P 13

DZ

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

DZ/T 0219-2006

**Specification of design and construction for landslide
stabilization**

(English Translation)

Issued on: June 5, 2006

Implemented on: September 1, 2006

Issued by: Ministry of Land and Resources

Table of Contents

Preface

Introduction

1 Scope

2 Normative references

3 Basic regulations for landslide prevention and control engineering design

4 Landslide classification and prevention engineering investigation

5 Classification and design safety factor of landslide prevention and control engineering

6 Drainage works

7 Anti-slide pile

8 Prestressed anchor cable

9 Lattice anchoring

10 Gravity retaining wall

11 Other prevention and control projects

12 Landslide prevention monitoring

13 Construction organization

14 Quality Inspection and Project Acceptance

Appendix A (normative appendix) landslide stability evaluation and thrust calculation formula

Appendix B (Normative Appendix) Calculation formula 49 for earth pressure of gravity retaining wall

Appendix C (Normative Appendix) Table 51 of foundation coefficients for anti-slide pile design

Foreword

Appendix A, Appendix B, and Appendix C of this specification are normative appendices.

This specification was proposed by the Department of Geology and Environment of the Ministry of Land and Resources.

This specification is under the centralized management of the Department of International Cooperation and Science and Technology of the Ministry of Land and Resources.

The main drafting unit of this code. China Geological Survey.

Introduction

In order to improve the technical level of landslide prevention and control, unify technical standards, ensure sufficient geological basis, safety and reliability, economical and reasonable, technically feasible, and specially made Make this specification.

This code is compiled on the basis of full study of domestic and foreign technical standards for landslide prevention and control and more mature methods and technologies.

Various methods have fully solicited the opinions of relevant units and experts across the country, and the resettlement and construction of the Three Gorges Project reservoir area, as well as other municipal and engineering construction Design, the natural geological landscape protection landslide prevention project was tried out and repeatedly revised and improved, and the final draft was reviewed and finalized.

This code covers the feasibility plan design, preliminary design and construction drawing design of landslide prevention and control projects, as well as the design of emergency treatment projects Provisions and regulations on drainage, anti-slide piles, prestressed anchor cables, lattice anchoring, gravity retaining walls, grouting reinforcement, brushing for load reduction, backfill Technical methods such as foot and plant protection, as well as construction technical methods put forward requirements.

DZ/T 0219-2006

Technical code for design and construction of landslide prevention engineering

1 Scope

This code stipulates the basic requirements for landslide prevention and control engineering design, landslide classification and prevention engineering investigation, landslide prevention engineering classification and design safety Full coefficient, drainage engineering, anti-slide pile, pre-stressed anchor cable, lattice anchoring, gravity retaining wall, grouting reinforcement, brush square load reduction, backfill presser foot, plant protection, Landslide prevention and control monitoring, construction organization, quality inspection and project acceptance, etc.

This code is applicable to guide the design of landslide prevention and control engineering.

2 Normative references

The clauses in the following documents become clauses of this standard after being quoted. For dated reference documents, all subsequent Amendments (not including errata content) or revisions do not apply to this standard. However, all parties that have reached an agreement based on this standard are encouraged to study is the latest version of these files available? For undated references, the latest version is applicable to this standard.

GB 50010-2002 Code for Design of Concrete Structures GB 50119-2003 Technical specification for application of concrete admixtures GB 50204-2002 Code for Construction and Quality Acceptance of Concrete Structure Engineering GB 50290-1998 Technical specification for application of civil composite materials SL18-1991 Technical Specification for Canal Seepage Control Engineering SDJ34-1989 Spillway design specification JGJ94-1994 Technical Code for Building Pile Foundation

3.1 General provisions

3.1.1

The design of landslide prevention works can be divided into three stages. feasibility plan design, preliminary design and construction drawing design. For small scale, Landslides with clear geological conditions can simplify the design phase.

3.1.2

Feasibility plan design. According to the prevention and control objectives, compile on the basis of the approved landslide prevention and control geological survey report;

Demonstrate the technical, economic, social and environmental benefits of the design scheme, and make engineering estimates; submit a feasibility scheme design report and feasible Attached drawings for the design of the proposed plan, and submit the landslide engineering geological survey report and related test reports and other attachments; calculation and estimation content can be calculated and the form of estimate is submitted as an attachment.

3.1.3

Preliminary design. Fully demonstrate and test the recommended design of the feasibility scheme; propose specific project implementation steps and related engineering Process parameters, carry out structural design, prepare corresponding reports and drawings, carry out project estimates; submit preliminary design reports and design drawings, and submit Submit related test reports and other attachments; calculations and budget estimates can be submitted as attachments in the form of calculations and budget estimates.

3.1.4

Construction drawing design. Carry out detailed design on the engineering drawing determined by the preliminary design; propose construction technology, construction organization and safety measures Requirements; and meet the project construction and project bidding requirements; compile project construction drawings and instructions, make project budgets; submit construction design drawings and Construction drawing manual, budget book, etc.

3.1.5

The emergency treatment engineering design is a special content in the landslide disaster prevention engineering design, which can simplify the above-mentioned design stage. But emergency management it should be compatible with subsequent normal governance and provide a basis for normal governance.

3.2 Feasibility plan design of landslide prevention project

3.2.1

The feasibility scheme design of landslide prevention engineering is an important stage of landslide prevention engineering design. According to the requirements of the mandate, from the technical Analysis and demonstration of more than two plans for prevention and control projects based on factors such as operation and economy, as well as social and environmental factors, conduct investment estimates and determine the best ??? DZ/T 0219-2006