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

GB/T 15776-2023

Replacing GB/T 15776-2016

Technical regulations for afforestation

造林技术规程

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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: This document replaces GB/T 15776-2016 "Afforestation Technical Regulations": Compared with GB/T 15776-2016, this document except for structural adjustment In addition to editorial changes, the main technical changes are as follows:

- Changed the definitions of the terms "afforestation", "artificial afforestation", "renewal afforestation", "surrounding tree planting", "pure forest", "mixed forest" and "qualified rate of afforestation area" (see 3:1, 3:1:1, 3:1:2, 3:1:3, 3:3, 3:4, 3:13, 3:1, 3:1:1, 3:1:2, 3:1:3, 3:4, 3:5, 3:12 of the:2016 edition), delete In addition to the terms and definitions of "under-canopy afforestation" and "artificial regeneration before felling" (see 3:1:4 and 3:3 of the:2016 edition), "renewal of deforestation" has been added: The terms and definitions of "afforestation", "pre-cutting reforestation", "band mixed", "block mixed", "vegetative group mixed" and "survival rate of afforestation" (see 3:1:2:1, 3:1:2:2, 3:4:1, 3:4:2, 3:4:3, 3:12);
- Added afforestation procedures (see Chapter 4);

- Changed the title of Chapter 5, added "Persistence in thrifty afforestation" and "Implementation of scientific norms" (see Chapter 5, Chapter 4 of the:2016 edition);
- Changed the design of afforestation operations (see Chapter 6, Chapter 5 of the:2016 edition);
- Changed the afforestation division (see Chapter 7, Chapter 6 of the:2016 edition);
- Changed the mixed forest configuration requirements [see 8:2:3:2c), 7:2:3:2c) of the:2016 edition]
- Changed the general requirements for seeds and seedlings (see 9:1, 8:1 of the:2016 edition);
- Changed the site conditions in afforestation density (see 10:1:3, 9:1:3 of the:2016 edition), and the density determination method (see 10:2, :2016 9:2 of the:2016 edition), density determination requirements (see 10:3, 9:3 of the:2016 edition);
- Increased general requirements for afforestation and land preparation [see 11:3:1f)], deleted soil water storage and moisture conservation measures [see 10:5:2c) of the:2016 edition];
- Added fertilization and shaping (see 12:1:5);
- Change the title of Chapter 14 (see Chapter 14, Chapter 13 of the:2016 edition), delete the replanting of forest land (see the:2016 edition 13:2, 15:2:2:2, 15:3:2:2), and the reforestation of the land lost (see 14:2, 16:2:2:2, 16:3:2:2);
- Changed the general requirements in the habitat protection of forested land (see 15:1, 14:1 of the:2016 edition);
- Changed the title of Chapter 16 (see Chapter 16, Chapter 15 of the:2016 edition), general requirements for afforestation quality and effectiveness evaluation (see 16:1, 15:1 of the:2016 edition), artificial forest quality evaluation standards (see 16:2:1:2, 15:2:1:2 of the:2016 edition), artificial Forest effectiveness evaluation criteria (see 16:3:1:2, 15:3:1:2 of the:2016 edition), delete the annual quality evaluation of forest land replanting (see 15:2:2:2 of the:2016 edition), the evaluation of the effectiveness of replanting forest land (see 15:3:2:2 of the:2016 edition), added reforestation Quality evaluation (see 16:2:2:2), evaluation of reforestation effectiveness (see 16:3:2:2);

1 Scope

China's national technical code for afforestation - the rules by which a forest is planned, planted and brought to the point where it can be called established. It sets out the afforestation procedure and specifies the design of afforestation operations, the afforestation regions, the choice of species, the seeds and seedlings, the planting density, the planting methods, the tending and protection of young stands, reforestation after felling,

tree planting along roads, rivers, canals and around villages and houses, the protection of the site, the assessment of afforestation quality and effectiveness, the plans to be produced and the records to be kept - and it describes the corresponding assessment methods. It applies to artificial afforestation, to reforestation and to the four-sides tree planting practised nationwide. Afforestation is a public programme carried out at enormous scale, and the failure mode it has to guard against is a plantation that is counted as complete and is dead three years later. Almost every rule in the document exists to prevent that. The regional division exists because a species that succeeds in one climatic zone fails in another. The seed and seedling requirements exist because the commonest cause of failure is planting material that was already compromised when it arrived. The density rules exist because a stand planted too dense stagnates and one planted too thin never closes canopy. The tending rules cover the years between planting and canopy closure, which is when a plantation is actually lost - to weeds, to browsing, to drought, to fire. And the assessment rules define survival and preservation rates measured at defined intervals, which is what turns a claim that afforestation was carried out into a fact that can be checked on the ground. Issued and in force since 23 May 2023, it replaces GB/T 15776-2016.

This document establishes the afforestation procedure, specifies the design of afforestation operations, afforestation divisions, afforestation tree species, seeds and seedlings, afforestation density, afforestation methods, etc: Law, management and protection of immature forests, reforestation, tree planting on all sides, habitat protection of afforestation sites, evaluation of afforestation quality and effectiveness, floor plans, afforestation files and other specific program requirements, and describes the corresponding evaluation methods: This document is applicable to artificial afforestation, reforestation and tree planting around the country:

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text: Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document:

GB 6000 Quality classification of seedlings of main afforestation species

GB/T 6001 Technical Regulations for Seedling Cultivation

GB 7908 Forest tree seed quality classification

GB/T 14175 Forest tree introduction

GB/T 15783 Technical Regulations for Chemical Weeding of Main Planted Tree Species

GB/T 18337:

3 Terms and Definitions

The following terms and definitions apply to this document:

3:1 afforestation forestation The process of establishing or restoring forests on sparse forest land, shrub land, remnant land, and other land planned for afforestation:

3:1:1 artificial forestation afforestation The process of building a forest through artificial measures on sparse forest land, shrub land, and other land planned for afforestation and greening:

3:1:

2 Reforestation reforestation Reconstruction or restoration of the forest through artificial measures on the felling site, burning site, etc., or under the forest before the tree felling process:

3:1:2:

1 The process of re-establishing or restoring forests by artificially planting seedlings, seeding and other measures on logging sites, burning sites, etc: