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

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**Agricultural services - Specification for greenhouse
construction services**

农业社会化服务 温室建设服务规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents" Drafting. Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents. This document is proposed and coordinated by the National Agricultural Social Services Standardization Working Group (SAC/SWG23). This document was drafted by: National Vegetable Quality Standards Center, China Institute of Standardization, Shandong Shouguang Vegetable Industry Group Co., Ltd., Shouguang Hengshu Wujiang Agricultural Development Group Co., Ltd., Shandong Agricultural University, Vegetable and Flower Research Institute of the Chinese Academy of Agricultural Sciences, Beijing Agriculture and Forestry Department College, Shandong Shouguang Vegetable Industry Group Greenhouse Technology Co., Ltd., Binzhou Agricultural Technology Promotion Center. The main drafters of this document. Hu Yongjun, Xia Haibo, Yun Zhenyu, Tian Subo, Hu Yingying, Wei Min, Ma Xiaolei, Sang Yizhen, Wen Changlong, Guo Jin, Gao Xuhui, Wang Renjie, Xu Donghui, Fu Leqi, Cao Zhongxin, Wang Mingqin, Ding Junyang, Zhang Haiping, Liu Tianying, Qi Ye, Wang Kaiyan. Agricultural socialization service greenhouse construction service specifications

1 Scope

China's national specification for greenhouse construction services. China grows more produce under cover than the rest of the world combined, in structures ranging from simple plastic tunnels to the Chinese solar greenhouse - a design with a heavy insulated north wall that stores solar heat and releases it overnight, allowing winter production at latitudes where an unheated glasshouse would be impossible. The specification addresses the service rather than the structure: what a contractor building a greenhouse must do, from the

site assessment and the design brief through construction to handover and the instruction of whoever will operate it. That framing matters because the buyer is usually a farmer or a cooperative rather than a developer, the investment is large relative to their means, and the failures are recurrent - a structure that does not suit the local wind and snow loads, or one whose ventilation and thermal behaviour were never calculated.

This document stipulates the basic requirements and service requirements for greenhouse construction services, describes the corresponding verification methods, and provides service quality evaluation and improvements. This document applies to the design, construction, and maintenance services of greenhouses such as solar greenhouses, multi-span greenhouses, and plastic greenhouses.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document.

GB/T 51057 Technical specifications for planting plastic greenhouse engineering

GB/T 51183 Agricultural greenhouse structural load specifications

GB/T 51424 Agricultural greenhouse structure design standards

JB/T 10288 Technical conditions for multi-span greenhouses

JB/T 10294 Wet curtain cooling device

JB/T 10296 Greenhouse electrical wiring design specifications

JB/T 10297 Greenhouse heating system design specifications

JB/T 10306 Greenhouse control system design specifications

JB/T 10594 Structural and performance requirements for solar greenhouses and plastic greenhouses

NY/T 610 Technical specifications for quality evaluation of solar greenhouses

NY/T 1145 Technical Specifications for Design, Construction and Acceptance of Greenhouse Foundation

NY/T 1420 General rules for quality acceptance of greenhouse projects

NY/T 1451 Greenhouse Ventilation Design Code

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 greenhouse Use translucent covering materials as all or part of the enclosure structure, and have a certain number of environmental control equipment to withstand adverse weather conditions. facilities to ensure the normal growth and development of crops.