



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

GB/T 51461-2024

Standard for terminology of agricultural engineering

农业工程术语标准

Issued on: March 13, 2024

Implemented on: August 1, 2024

**Issued by: Ministry of Housing and Urban-Rural Development of the PRC
and the State Administration for Market Regulation**

Table of Contents

1 General provisions	1
2 Common terms	2
3 Planting engineering	3
3.1 General terms	3
3.2 Protected horticulture engineering	3
3.3 Farmland construction engineering	8
4 Animal husbandry engineering	10
4.1 General terms	10
4.2 Livestock farm buildings and facilities	10
4.3 Equipment in livestock and poultry houses	14
5 Fishery engineering	17
5.1 General terms	17
5.2 Fishing port engineering	17
5.3 Aquacultural engineering	19
6 Agro-products postharvest handling engineering	21
6.1 General terms	21
6.2 Grain and oilseeds postharvest handling engineering	21
6.3 Fruit and vegetable postharvest handling engineering	24
6.4 Animal product processing and circulation engineering	27
6.5 Aquatic product processing and circulation engineering	29
6.6 Other	29
7 Agricultural waste recovery engineering	33
7.1 General terms	33
7.2 Agricultural waste storage and transportation engineering	34
7.3 Energy utilization engineering	35
7.4 Fertilization utilization engineering	36
7.5 Feed utilization engineering	37
7.6 Substrate utilization engineering	38
7.7 Material utilization engineering	39
Appendix A Chinese index	41
Appendix B English index	54
Addition: Explanation of provisions	69

Foreword

This document was issued on 13 March 2024 by the Ministry of Housing and Urban-Rural Development of the PRC and the State Administration for Market Regulation and takes effect on 1 August 2024.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies.

The document runs to 98 pages. The identification, the dates, the classification and the table of contents on this page are taken from the cover and the printed contents of the standard itself.

This standard was approved by the Ministry of Housing and Urban-Rural Development of the PRC under Announcement No. 38 of 2024 and takes effect on 1 August 2024.

Its editing department is the Ministry of Agriculture and Rural Affairs of the PRC, and it was drafted by the Academy of Planning and Design of that ministry with the Fishery Engineering Research Institute, China Agricultural University and others.

It closes with a Chinese and an English index, thirteen and fifteen pages respectively, and an explanation of provisions.

1 Scope

GB/T 51461-2024 is the Chinese terminology standard for agricultural engineering, the vocabulary underlying every Chinese standard, design code and contract in the built infrastructure of agriculture. Its structure is a map of the sector: planting engineering, covering protected horticulture, that is the greenhouse and tunnel systems China builds at a scale no other country approaches, and farmland construction engineering; animal husbandry engineering, covering livestock farm buildings and facilities and the equipment inside livestock and poultry houses; fishery engineering, covering fishing ports and aquaculture; agro-products postharvest handling engineering, with separate sections for grain and oilseeds, fruit and vegetables, animal products and aquatic products; and agricultural waste recovery engineering, covering the storage and transport of agricultural waste and its utilisation as energy, fertiliser, feed, growing substrate and raw material. Chinese and English indexes and an explanation of provisions close the document. It applies to the planning, design, construction, acceptance, operation, maintenance and management of agricultural engineering works, and for anyone reading Chinese agricultural engineering documents it is the key to the vocabulary.

3 Planting engineering

Clause 3 is organised as follows: 3.1 General terms; 3.2 Protected horticulture engineering;

3.3 Farmland construction engineering.

4 Animal husbandry engineering

Clause 4 is organised as follows: 4.1 General terms; 4.2 Livestock farm buildings and facilities; 4.3 Equipment in livestock and poultry houses.

5 Fishery engineering

Clause 5 is organised as follows: 5.1 General terms; 5.2 Fishing port engineering; 5.3 Aquacultural engineering.

6 Agro-products postharvest handling engineering

Clause 6 is organised as follows: 6.1 General terms; 6.2 Grain and oilseeds postharvest handling engineering; 6.3 Fruit and vegetable postharvest handling engineering; 6.4 Animal product processing and circulation engineering; 6.5 Aquatic product processing and circulation engineering; 6.6 Other.

7 Agricultural waste recovery engineering

Clause 7 is organised as follows: 7.1 General terms; 7.2 Agricultural waste storage and transportation engineering; 7.3 Energy utilization engineering; 7.4 Fertilization utilization engineering; 7.5 Feed utilization engineering; 7.6 Substrate utilization engineering; 7.7 Material utilization engineering.