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

**GB/T 16453.4-2008**

Replacing GB/T 16453.4-1996

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**Technical specification for comprehensive control of soil and  
water conservation - Small engineering of store, drainage and  
draw water**

水土保持综合治理 技术规范 小型蓄排引水工程

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### Foreword

GB/T 16453 "soil and water conservation technical specifications" is divided into six parts.

- GB/T 16453.1-2008 soil and water conservation technical specifications slope land;
- GB/T 16453.2-2008 soil and water conservation technical specifications wasteland control technology;
- GB/T 16453.3-2008 soil and water conservation technical specifications Gully control technology;
- GB/T 16453.4-2008 soil and water conservation technical specifications for small storage discharge water diversion project;
- GB/T 16453.5-2008 soil and water conservation technical specifications sand control technology;
- GB/T 16453.6-2008 soil and water conservation technical specifications Collapsing Management technology. This Part replaces GB/T 16453.4-1996 "soil and water conservation technical specifications for small storage discharge water diversion project." This section compared with the GB/T 16453.4-1996, modified as follows:

- a) small build drainage works part, to the planning design;
- b) The 1996 edition of
- 5.2.2 to first deal with a good foundation, according to the design do seepage;
- c) to masonry stonework lining material and other materials;
- d) the reservoir to reservoir construction requirements after the completion of the wall with cement mortar plastering should be carried out anti-seepage treatment;
- e) adding a settling pond construction. This part is proposed by the Ministry of Water Resources. This part of the jurisdiction of the Department of International Cooperation,

Science and Technology. Drafting this Part. Division of Soil and Water Conservation, Ministry of Water Resources Monitoring Center, the middle reaches of the Yellow River Conservancy Commission on Management Bureau of Rural Water Conservation Bureau CONSERVANCY Yellow River Conservancy Commission, the Soil Conservation Service Changjiang Water Resources Commission, Songliao Water Resources Commission Water Conservancy Department, Pearl River Water Resources Commission Water Conservancy Department, the Haihe River Water Resources Commission Water Conservancy Department, the Huaihe River Water Resources Commission Water Conservancy Department, Beijing Forestry University Soil and Water Conservation. The main drafters of this section. Section Qiao Fu, Liu Wan Quan Fan Qi Jing, Hu Ning heap, Tong Weili Lu Shengli, Guo Yan cable, Chang India, Zhao Yongjun, Chen Fayum, FORESTRY AND Cong Peijuan, often Dandong, Feng Wei, Li Qi. This part of the standard replaces the previous editions are.

--- GB/T 16453.4-1996.

## 1 Scope

GB/T 16453.4-2008 is the Chinese national standard on technical specification for comprehensive control of soil and water conservation - small engineering of store, drainage and draw water, in the field of environment and health protection, safety. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 14 November 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 February 2009. Classification: ICS 13.080, CCS B11. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

1.1 GB/T 16453 provisions of this part of the slope of small build and Drainage Project, a small roadside ditch flood diversion and storage project lead overland engineering regulations Planning, design, construction management and technical requirements.

### 1.2 Scope section

1.2.1 roadside ditch cited works include a small storage water kiln (Storing), between hills and spring water flood pool utilization roadside ditch small lead storage project And other types for northern arid and semi-arid regions. Southern locally arid, semi-arid areas of the phenomenon, also can refer to use.

1.2.2 overland flood diversion project refers to the erosion area references flood slopes, roads, ravines and rivers during heavy rains, silt or diffuse arable wasteland The project for

the northern arid and semi-arid regions. Southern arid, semi-arid in some areas may also refer to use.

1.2.3 Construction of a small store, drainage diversion project shall comply with the provisions of this section, it should also comply with existing national standards.

## 2 Normative references

The following documents contain provisions which, through

GB/T 16453 reference in this text, constitute provisions of this part. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 16453.1-2008 soil and water conservation technical specifications Sloping control technology

GB/T 16453.3 soil and water conservation technical specifications Gully Treatment Technology

GB 50400 building and rainwater utilization technical specifications SL267 rainwater harvesting and use of technical specifications

### 3.1 Basic provisions

3.1.1 Slope row small storage project includes drainage ditches, drains, reservoirs and other types of settling basin for the South rainy areas. Northern section Points more rainfall, runoff greater Rocky mountainous and hilly areas, can also refer to use.

3.1.2 Slope small water storage projects should Sloping Farmland Improvement of terraces, soil and water conservation tillage and other measures wasteland governance made Lin Yulin, grass And grass and other measures closely, supporting the implementation.

3.1.3 Sloping Farmland Improvement Plan, the slope should build a small row of Engineering and terraces, and water conservation measures such as conservation tillage method unified planning, simultaneous Construction, to be able to protect the safety of terraced areas and conservation tillage zone appears when you design storm. At the same time, build a small storm drain runoff and construction works Were designed, it should also be considered terraces and Water Conservation tillage to reduce runoff and sediment role.

3.1.4 In planning wasteland governance, the slope should be made with a small store, drainage works Lin Yulin, grass and grass unified planning, simultaneous construction, reach Design storm appears to protect the safety of forest and grass measures. Meanwhile, storm runoff and small storage building design engineering platoon, should also be

considered sterile afforestation Forest and grass and grass to reduce runoff and sediment role.

3.1.5 Slope row small storage project should take full account of water use. Refer to SL267 and GB 50400 design.

### **3.2 Planning**

3.2.1 Sloping base during or wasteland management planning on a small slope should be a special store, drainage works overall layout and reasonable layout Drainage ditches, drains, and settling basin reservoirs and other four major buildings, a complete defense system.