

CCS Z 63

HJ

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

HJ 575-2010

**Technical specifications for brewing industry wastewater
treatment**

(English Translation)

Issued on: October 12, 2010

Implemented on: January 1, 2011

Issued by: Ministry of Ecology and Environment

Table of Contents

Foreword

1 Scope of application

2 Normative references

3 Terms and definitions

4 Pollution load

4.1 Wastewater collection

4.2 Pollution load

4.3 Determination of design parameters for water quantity and water quality

5 General requirements

5.1 General provisions

5.2 Project composition

5.3 Construction scale

6.1 Technical route for brewing wastewater pollution control

Foreword

In order to implement the "Environmental Protection Law of the People's Republic of China" and the "Water Pollution Control Law of the People's Republic of China" to prevent brewing industrial wastewater Dyeing, standardizing the construction and operation management of brewing industrial wastewater treatment engineering facilities, preventing environmental pollution, protecting the environment and human health, and developing this standard quasi.

This standard specifies the technical requirements for brewing industrial wastewater treatment projects.

This standard was formulated by the Science and Technology Standards Department of the Ministry of Environmental Protection.

This standard was drafted. China Environmental Protection Industry Association (Water Pollution Control Committee), Tianjin Environmental Protection Research Institute, North Beijing Municipal Environmental Protection Science Research Institute.

This standard was approved by the Ministry of Environmental Protection on October 12, 2010.

This standard has been implemented since January 1, 2011.

This standard is explained by the Ministry of Environmental Protection.

Technical specification for brewing industrial wastewater treatment engineering

1 Scope of application

This standard specifies the pollution load, overall requirements, process design, parameters and technical requirements of the brewing industrial wastewater treatment project.

Art equipment and materials, testing and process control, structures and auxiliary engineering, labor safety and occupational hygiene, construction and acceptance, operation and maintenance and other technical requirements.

This standard is applicable to the environmental management of the whole process of brewing industrial wastewater treatment engineering construction, and can be used as the project environmental impact assessment.

Technical basis for environmental management such as research, design, construction, completion, environmental protection and acceptance, and operation of the facility after completion.

2 Normative references

The contents of this standard refer to the terms in the following documents. For undated references, the valid version applies to this standard.

GB 3836.1~17 Electrical equipment for explosive gas atmosphere GB 8978 Integrated Wastewater Discharge Standard GB 12348 industrial enterprise boundary noise standard GB/T 12801 General requirements for safety and hygiene of production processes HJ 493-2009 Technical regulations for the preservation and management of water sampling samples GB 14554 Odor Pollutant Discharge Standard GB 50011 seismic design code for buildings GB 50014 Outdoor Drainage Design Code GB 50015 Building Water Supply and Drainage Design Code GB 50016 Building Design Fire Code GB 50040 power machine basic design specification GB 50046 industrial building anti-corrosion design specification GB 50052 design specification for power distribution system GB 50053 10 kV and below substation design specifications GB 50054 Low Voltage Distribution Design Specification GB 50057 lightning protection design code for buildings GB 50069 Water supply and drainage engineering structure design specification GB 50194 Construction site safety requirements for construction and supply of electricity GB 50222 Building interior decoration design fire protection specification GB/T 18883 indoor air quality standard GB/T 18920 Urban Wastewater Recycling Urban Miscellaneous Water Quality GB J 19 Industrial enterprises heating, ventilation and air conditioning design specifications GB J 22 Factory Mine Road Design Code GB J 87 Industrial Enterprise Boundary Noise Control Design Specification GBZ 1 industrial enterprise design hygiene standard CJJ 31-89 Design Standard for Auxiliary Buildings and Auxiliary Equipment of Municipal Wastewater

Treatment Plants CJJ 60 sewage treatment plant operation, maintenance and safety technical regulations HJ/T 91 Surface Water and Wastewater Monitoring Technical Specifications HJ/T 242 environmental protection product technical requirements belt press filter for sludge dewatering HJ/T 245 Environmental Protection Products Technical Requirements Hanging Packing HJ/T 246 Environmental Protection Products Technical Requirements Suspended Packing HJ/T 247 Technical requirements for environmental protection products Vertical shaft mechanical surface aerator HJ/T 250 Environmental Protection Products Technical Requirements Rotary Fine Grille HJ/T 251 environmental protection product technical requirements Roots blower HJ/T 252 environmental protection product technical requirements, microporous aerator HJ/T 259 environmental protection product technical requirements rotary brush aeration device HJ/T 260 Environmental Protection Product Technical Requirements Blasting Submersible Aerator HJ/T 262 environmental protection product technical requirements grille decontamination machine HJ/T 263 Environmental Protection Product Technical Requirements Jet Aerator HJ/T 277 environmental protection product technical requirements rotary decanter HJ/T 278 environmental protection product technical requirements single-stage high-speed aeration centrifugal blower HJ/T 279 environmental protection product technical requirements push flow submersible mixer HJ/T 280 environmental protection product technical requirements rotary aerator HJ/T 281 environmental protection product technical requirements diffuser aerator HJ/T 283 environmental protection product technical requirements chamber filter press and plate and frame filter press HJ/T 335 environmental protection product technical requirements sludge concentration belt dewatering machine HJ/T 336 Environmental Protection Product Technical Requirements Submersible Sewage Pump HJ/T 369 Environmental Protection Product Technical Requirements Dosing Device for Water Treatment NY/T 1220.1 Technical Specifications for Biogas Engineering Part 1. Process Design NY/T 1220.2 Technical Specifications for Biogas Engineering - Part 2. Gas Supply Design "Measures for Completion and Acceptance of Construction Projects (Engineering)" (National Planning Commission Construction [1990] No. 215) Measures for the Administration of Environmental Protection Completion Acceptance of Construction Projects (Order No. 13 of the State Environmental Protection Administration)

3 Terms and definitions

Brewing

Refers to the process of making agricultural products into flavored food beverages by fermentation of microorganisms or enzymes.

Brewing industry

Refers to the industrial industry engaged in the manufacture of beer, liquor, rice wine, wine, alcohol and other wines and vinegar, sauce, soy sauce and other condiments in the food industry.

industry.

Brewing wastewater

It refers to the production wastewater discharged from the brewing industry, as well as the waste water generated during the comprehensive utilization of solid, semi-solid waste and waste liquid.

Wastewater that has not been mixed with other wastewater discharged from a certain production process of a specific production process in the brewing process is called brewing process wastewater.

(brewing process wastewater).

The mixed wastewater of various types of wastewater discharged during the production of brewed products is called brewing comprehensive wastewater (brewing comprehensive Wastewater).

Brewing wastewater can be divided into beer wastewater, liquor wastewater, rice wine wastewater, wine wastewater, alcohol wastewater, etc. according to different brewing products.

And vinegar wastewater, sauce wastewater and soy sauce wastewater.

Washing wastewater

It refers to the waste water generated when washing containers and pipes of brewing product packaging bottles, saccharification pots, fermenters, etc.

Bottom pot water

Refers to the bottom of the cooking pot produced by the steaming process in the production of white wine.

4.1 Wastewater collection

4.1.1

Brewing wastewater should be classified and collected according to the concentration of pollutants according to the principle of "cleaning and diverting, dividing by light and thin".

4.1.2

Brewing wastewater can be collected according to the provisions of Table 1.

Table 1 Classification requirements for brewing wastewater

High-concentration process wastewater that needs to be collected separately and recycled or pretreated can be mixed and collected and processed centrally Medium and low concentration process wastewater Beer wheat grain filtrate, waste yeast filtrate, container pipeline, washing wastewater, wheat immersion, container pipeline washing wastewater,