

HJ

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Technical specifications for hospital sewage treatment (English Translation)

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Foreword

To implement the Environmental Protection Law of the People's Republic of China, the Law of the People's Republic of China on the Prevention and Control of Water Pollution, and the People's Republic of China the Law on the Prevention and Control of Infectious Diseases of the State, standardizing the design, construction and operation management of hospital sewage treatment projects to prevent hospital sewage from polluting the environment, this standard is formulated to prevent the spread of disease and to protect human health.

This standard specifies the general requirements, process and technical parameters, equipment and materials, testing and process of hospital sewage treatment projects.

Technical requirements for control, auxiliary facility design, labor safety and occupational hygiene, construction and acceptance, operation and maintenance.

This standard is a guidance document.

This standard is the first release.

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

This standard was drafted. Beijing Municipal Academy of Environmental Sciences.

This standard was approved by the Ministry of Environmental Protection on March 29, 2013.

This standard has been implemented since July 1, 2013.

This standard is explained by the Ministry of Environmental Protection.

Hospital sewage treatment engineering technical specifications

1 Scope of application

This standard specifies the general requirements, process and technical parameters, equipment and materials, testing and process of hospital sewage treatment projects.

Technical requirements for control, auxiliary facility design, labor safety and occupational hygiene, construction and acceptance, operation and maintenance.

This standard applies to hospital sewage treatment projects, can be used as hospital sewage treatment engineering feasibility study, design, construction, acceptance, operation management the technical basis for the environmental impact assessment of hospitals.

Sewage treatment projects in other medical institutions such as nursing homes, rehabilitation hospitals and veterinary hospitals refer to the implementation.

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 3096 Acoustic Environmental Quality Standard GB 3838 Surface Water Environmental Quality Standard GB 12348 Environmental noise emission standards for industrial enterprises GB 18466 Water pollutant discharge standards for medical institutions GB 16297 Integrated emission standards for atmospheric pollutants GB 14554 Odor Pollutant Discharge Standard GB 50014 Outdoor Drainage Design Code GB 50015 Building Water Supply and Drainage Design Code GB 50016 Building Design Fire Code GB 50052 design specification for power distribution system GB 50054 Low Voltage Distribution Design Specification GB 50194 Construction site safety requirements for construction and supply of electricity GB 50303 Building electrical engineering quality acceptance specification GB 11984 Chlorine Gas Safety Regulations GB J22 factory mine road design specification GB J87 industrial enterprise noise control design specification JGJ49-88 General Hospital Building Design Code CECS07.2004 Hospital Wastewater Treatment Design Code

CECS97.97 design rules for blast aeration systems CJ/T 109-2000 People's Republic of China Urban Construction Industry Standard - Submersible Mixer HJ/T 91 Surface Water and Wastewater Monitoring Technical Specifications HJ/T 96 pH water quality automatic analyzer technical requirements HJ/T 101 Ammonia Nitrogen Water Quality Analyzer Technical Requirements HJ/T 177-2005 Technical Specifications for Construction of Centralized Incineration Disposal of Medical Waste HJ/T 212 pollution source online automatic monitoring (monitoring) system data transmission standard HJ/T 245 Environmental Protection Products Technical Requirements Hanging Packing HJ/T 246 Environmental Protection Products Technical Requirements Suspended Packing 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 262 environmental protection product technical requirements grille decontamination machine HJ/T 263 Environmental Protection Product Technical Requirements Jet Aerator HJ/T 276-2006 Technical Specifications for High Temperature Steam Centralized Treatment of Medical Waste (Trial) HJ/T 281 environmental protection product technical requirements diffuser aerator 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 337 Environmental Protection Products Technical Requirements Biological Contact Oxidation Complete Set HJ/T 353 Water Pollution Source Online Monitoring System Installation Technical Specification (Trial) HJ/T 354 water pollution source online monitoring system acceptance technical specification Technical specification for operation and assessment of HJ/T 355 water pollution source online monitoring system HJ/T 367 environmental protection product technical requirements electromagnetic pipeline flowmeter HJ/T 369 Environmental Protection Product Technical Requirements Dosing Device for Water Treatment HJ/T 377 Environmental Protection Products Technical Requirements Chemical Oxygen Demand (CODCr) Water Quality Online Automatic Monitor HJ .2006-2010 Technical Specifications for Sewage Coagulation and Flocculation Treatment Engineering HJ 579-2010 Membrane Biological Wastewater Treatment Engineering Technical Specification Regulations on Environmental Protection Management of Construction Projects State Council Order No. 253 Medical Waste Management Regulations State Council Order No. 380 Technical Regulations for Centralized Disposal of Medical Wastes [2003] No. 206

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1 Hospital sewage hospital sewage

Refers to hospital outpatients, wards, operating rooms, various examination rooms, pathological anatomy rooms, radiology rooms, laundry rooms, mortuaries, etc.

Diagnosis, living and fecal sewage. When the drainage of office, canteen, dormitory, etc. is mixed with the above sewage, it is also regarded as hospital sewage.

3.2 Infectious disease hospital sewage infectious hospital sewage

Refers to the diagnosis, treatment, living and fecal sewage discharged from infectious disease specialist hospitals and general hospital infectious wards.

3.3 Non-infectious disease hospital sewage non infective hospital sewage

Refers to the diagnosis, treatment, living and fecal sewage discharged from various non-communicable disease specialist hospitals and general hospitals except infectious wards.

3.4 Special nature hospital sewage special hospital sewage

Refers to a small amount of special-purpose sewage generated by the hospital inspection, analysis and treatment process, mainly including acidic sewage, cyanide-containing sewage, and heavy Metal sewage, printing wastewater, radioactive sewage, etc.

4.1 Collection of hospital sewage

4.1.1

Hospital sewage is divided into sewage from infectious disease hospitals, sewage from non-infectious diseases hospitals and sewage of special nature.

4.1.2

New (reconstruction, expansion) hospitals should consider hospital wards, non-disease areas, infectious wards, non-design when designing hospital sewage treatment systems
Sewage in infectious wards is collected separately.

4.1.3

Special characteristics of sewage should be collected separately, and treated with hospital sewage after pretreatment, special sewage should not be discharged into the place.

Waterway.

4.2 Pollution load

4.2.1

The design of hospital sewage treatment engineering should adopt the actual detection method to determine the pollution load of hospital sewage. Hospital sewage discharge and water the quality sampling test shall comply with the technical requirements of HJ/T 91.