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**Technical specifications for sugar industry wastewater
treatment**

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Foreword

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" and other laws and regulations, regulate sugar production Construction and operation management of wastewater treatment projects, control of environmental pollution caused by sugar wastewater, and promotion of progress in sugar wastewater treatment technology this standard.

This standard specifies the technical requirements for the design, construction, installation, acceptance and operation management of the sugar wastewater treatment project.

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. South China Institute of Environmental Sciences, Ministry of Environmental Protection.

This standard was approved by the Ministry of Environmental Protection on October 17,

2012.

This standard has been implemented since January 1, 2013.

This standard is explained by the Ministry of Environmental Protection.

Technical specification for sugar wastewater treatment engineering

1 Scope of application

This standard specifies the technical requirements for the design, construction, installation, acceptance and operation management of the sugar wastewater treatment project.

This standard is applicable to the treatment of sugar production wastewater from sugar enterprises that use sugar cane or sugar beet as raw materials. It can be used as feasibility study, design, Technical basis for construction, completion acceptance, environmental protection acceptance, operation and management after completion, and environmental impact assessment of sugar companies.

2 Normative references

The terms in the following documents become the terms of this standard by reference to this standard. The latest version of the undated reference document Applicable to this standard.

GB 3096 Acoustic Environmental Quality Standard GB 4284 Contaminant control standard for agricultural sludge GB 12348 Environmental noise emission standards for industrial enterprises GB 12523 Environmental noise emission standards for construction site boundaries GB 14554 Odor Pollutant Discharge Standard GB 18599 General industrial solid waste storage and disposal site pollution control standards GB 21909-2008 Water pollutant discharge standard for sugar industry GB 50011 seismic design code for buildings GB 50013 Outdoor Water Supply Design Code GB 50014 Outdoor Drainage Design Code GB 50015 Building Water Supply and Drainage Design Code GB 50016 Building Design Fire Code GB 50019 Heating, Ventilation and Air Conditioning Design Code GB 50034 Architectural Lighting Design Standard GB 50037 Building Ground Design Specification GB 50046 industrial building anti-corrosion design specification GB 50052 design specification for power distribution system 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 50108 Underground Engineering Waterproof Technical Specifications GB 50140 Building Fire Extinguisher Configuration Design Specification GB 50187 General Plan for Design of Industrial Enterprises GB 50194 Construction site safety requirements for construction and supply of electricity GB 50208 Underground Waterproof Engineering Quality Acceptance Specification GB 50222 Building interior decoration design fire protection specification GB 50268 Water supply and drainage pipeline engineering construction and acceptance specifications GB 50275 Fan,

compressor, pump installation engineering construction and acceptance specifications GB 50335 Wastewater Recycling Engineering Design Specification GB/T 12801 General requirements for safety and hygiene of production processes GB/T 18883 indoor air quality standard GB/T 23485 Municipal sewage treatment plant sludge disposal mixed landfill mud GB/T 23486 Urban sewage treatment plant sludge disposal landscaping mud GB/T 24600 urban sewage treatment plant sludge disposal land improvement mud GB/T 25031 Urban sewage treatment plant sludge disposal bricks GB/T 50033 Architectural lighting design standard GB/T 50125 Basic terminology standard for water supply and drainage engineering GB J 22 Factory Mine Road Design Code GB J 87 Industrial Enterprise Noise Control Design Specification GB J 141 Code for construction and acceptance of water supply and drainage structures GBZ 1 industrial enterprise design hygiene standard GBZ 2 Industrial site harmful factors occupational exposure limit CJJ 60 Urban Wastewater Treatment Plant Operation, Maintenance and Safety Technical Regulations HJ 493 Technical regulations for the preservation and management of water sampling samples HJ 494 Water Quality Sampling Technical Guidance HJ 495 water quality sampling plan design technical regulations HJ 577 Sequencing Batch Activated Sludge Wastewater Treatment Engineering Technical Specification HJ 578 Oxidation Ditch Activated Sludge Wastewater Treatment Engineering Technical Specification HJ .2006 Technical Specifications for Sewage Coagulation and Flocculation Treatment Engineering HJ .2008 sewage filtration treatment engineering technical specification HJ .2009 Biological Contact Oxidation Wastewater Treatment Engineering Technical Specification HJ .2013 Upflow Anaerobic Sludge Bed Reactor Wastewater Treatment Engineering Technical Specification HJ .2014 Biological Filter Method Wastewater Treatment Engineering Technical Specification HJ .2015 Water Pollution Control Engineering Technical Guidelines HJ .2016 Environmental Engineering Terminology HJ/T 15 Environmental Protection Product Technical Requirements Ultrasonic Open Channel Sewage Flowmeter 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 103 Total Phosphorus Water Quality Automatic Analyzer Technical Requirements HJ/T 186-2006 Cleaner Production Standards - Sugar Cane Sugar Industry HJ/T 212 pollution source online automatic monitoring (monitoring) system data transmission standard HJ/T 242 environmental protection product technical requirements belt press filter HJ/T 245 Environmental Protection Products Technical Requirements Hanging Packing HJ/T 246 Environmental Protection Products Technical Requirements Suspended Packing HJ/T 247 Environmental Protection Product Technical Requirements 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 265 environmental protection product technical requirements scraper HJ/T 266 environmental protection product technical requirements suction machine 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 for sludge dewatering 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 353 Water Pollution Source Online Monitoring System Installation Technical Specification (Trial) HJ/T 354 Water Pollution Source Online Monitoring System Acceptance Technical Specification (Trial) Technical Specifications for Operation and Assessment of HJ/T 355 Water Pollution Source Online Monitoring System (Trial) 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 NY/T 1220.2 Technical Specifications for Biogas Engineering - Part 2. Gas Supply Design NY/T 1222 Large-scale livestock and poultry farm biogas engineering design specification

3 Terms and definitions

The following terms and definitions defined in GB/T 50125, HJ .2016 apply to this standard.

Sugar industry wastewater Refers to waste water produced and discharged during the production of sugar cane sugar and sugar beet.

4 Contaminants and pollution loads

4.1

Sugar wastewater includes condensed water, cooling water, washing cloth water, washing tank wastewater, boiler ash water, beet produced in various steps of sugar production.

The washing water, the compressed water, the flushing mud water, and the ground washing water in the production area are sent.

4.2

Existing enterprises should adopt the method of on-site measurement of the total discharge port of enterprise wastewater to determine the wastewater volume and wastewater quality of sugar enterprises; beet stream the amount of wastewater should be determined by