

题 目：澄迈县某镇区净水厂工程设计

## 摘要

近些年来，人们的生活水平和质量在提高，还有经济的不断发展，人们对水量的需求也不断在增加，而且浪费的行为也四处存在，从而导致某镇区供水能力的不足，当地的经济发展受到制约，新建的净水厂迫在眉睫。所以本设计的选题是澄迈县某镇区净水厂工程设计，主体处理工艺选择主要是混凝、沉淀、过滤、消毒。主要设计任务是对取水、净水上进行方案论证和设计计算以及制图，在取水方面，主要对取水头进行论证和计算，所用到取水头是箱式取水头，在厂里，含有的构筑物主要是混合（机械混合器）→絮凝（网格絮凝池）→沉淀（隔板沉淀池）→过滤（V型滤池）→消毒。净水主要是从取水头通过重力流到厂区。首先是在机械混合池添加混凝剂进行混合，然后顺着到网格絮凝池、斜板沉淀池，再到V型滤池，处理出水进行加入消毒剂，加入消毒剂后流到清水池。从清水池的出水水质要达到《生活饮用水卫生标准》（GB5749-2006）的标准。

**关键词：**净水厂；工程设计；设计计算；制图

## Abstract

In recent years, people's standard of living and quality of life are improving, and the economy is developing. The demand for water is increasing, and the waste behavior is everywhere. So the topic of this design is the project design of water purification plant in a township of Chengmai County, the main treatment process selection is mainly coagulation, precipitation, filtration, disinfection. The main design task is to demonstrate and calculate the scheme and design and drawing of water intake and net water. In terms of water intake, the main purpose is to demonstrate and calculate the water intake head, which is a box Type water head, in the plant, the structure contained is mainly mixed (mechanical mixer)→ flocculation (grid flocculation tank)→ sedimentation (partition sedimentation tank)→ filtration (V filter) disinfection. The net water flows mainly from the water intake through gravity to the plant area. First, adding coagulant to the mechanical mixing tank, then following to the grid flocculation tank, inclined plate sedimentation tank, sedimentation tank, and then to the V the effluent is treated with disinfectant, and then it flows to the clear water tank. effluent quality from the clear water tank should meet the standard of the sanitary standard of drinking water (GB5749-2006).

**Keywords:**water purification plant;engineering design;design calculation; drawing

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