

DESIGN AND CONSTRUCTION OF 100 KV DC

HIGH POTENTIAL TESTER

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By

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ABSTRACT

This project mention about design and construction of 100 KV DC high potential tester. It descript of design and construction of high voltage potention. The objective is use for testing insulation of high voltage equipment. Such as testing underground cable, capacitor, testing equipment when it install compleately follow by the standard and safety, and include the every insulation of the breakdown voltage.

The project for design and construction 100 KV DC high potential tester is device into three major section, the capacitor section, the diode section, and the transformer section. The capacitor section is discript of voltage storage and filter ripple voltage. The capacitor use for filter multiple voltage of a ripple become to smooth. The diode section or rectifier will change alternating voltage to direct voltage. The transformer section use for building up the alternation voltage into higher. For this construction we can construc 100 KV DC high potential tester with 2 mA.