摘　要

本工程设计主要内容为110kV昆明至楚雄供电工程BN34-BN9投标文件设计。

本文件共有商务标和技术标两部分组成。商务标部分是按照电网工程建设预算规则计算出110kV蒙自至河口供电工程BN34-BN39的总安装工程费用，工程量计算体现在商务标部分，包括基础材料用量，塔材用量，线材用量，附件用量等。通过套用定额和查阅相关资料，计算出装置性材料费和直接费，之后确定地区范围，查阅该地区取费标准确定间接费，税金以及利润，最后得到总的工程造价和每公里造价。技术标部分主要是根据招标人的要求、拟建工程的工程概况以及国家相关法律法规编制各分部分项工程的施工方案，建立了相应的管理组织机构。包括编制依据、工程概况、施工方案、工期及施工进度计划、工程质量目标及管理措施、工程安全目标及管理措施等。并结合分部分项工程量绘制了施工进度计划网络图、施工进度计划横道图和牵张场平面布置图，突出了科学性、适用性及针对性，确保了优质、低耗、安全、高效地完成施工任务。

投标文件设计中，工程造价及施工组织设计至关重要，应采用先进的施工技术与施工方法，减少成本，缩短工期，并制定严格合理的质量监督体制和安全方针，认真执行。随着社会经济的快速发展，电力企业作为国家发展的基础产业之一，主要作用是为社会生产和人们生活提供保障，因此，送电线路的施工倍受人们关注，对于施工单位，施工技术水平、各种新型技术下的施工工艺以及投标报价水平的高低成为决定其生存与发展的重要因素。

关键词：商务标，技术标，投标文件设计，施工进度计划，施工技术，供电工程

Abstract

The main content of this project is the design of BN1-BN9 bidding documents for the 110kV Mengzi-Hekou Power Supply Project.

This document consists of two parts, a commerce standard and a technical standard. The business standard part is calculated according to the grid engineering construction budget rule for the total installation project cost of 110kV Mengzi to Hekou power supply project BN1-BN9. The project volume calculation is reflected in the business standard part, including the amount of basic materials, the amount of tower material, the amount of wire, and accessories. Dosage and so on. By applying quotas and consulting relevant materials, the installation material fee and direct fee are calculated, then the area is determined, the indirect fees, taxes and profits are determined by consulting the area's fee collection criteria, and the total project cost and cost per kilometer are finally obtained. The technical standard part is mainly based on the tenderer's requirements, project overview of the proposed project and the relevant national laws and regulations to compile the construction plans for each sub-project and establish a corresponding management organization. Including the preparation basis, project overview, construction plan, construction period and construction schedule plan, project quality objectives and management measures, project safety objectives and management measures. In addition, the construction progress plan network diagram, the construction schedule plan bar diagram, and the drawing floor plan layout were drawn in conjunction with the sub-item engineering quantities, highlighting scientificity, applicability, and pertinence, ensuring high quality, low consumption, safety, and efficiency. Complete the construction task.

In the bidding document design, the engineering cost and construction organization design are of utmost importance. Advanced construction techniques and construction methods should be adopted to reduce costs and shorten the construction period. A strict and reasonable quality supervision system and safety policy should be formulated and implemented conscientiously. With the rapid development of society and economy, power companies as one of the basic industries for the development of the country. For construction units, construction technology level The level of construction technology and bidding quotations under various new technologies has become an important factor in determining its survival and development.

Keywords: business standard, technical standard, bid document design, construction schedule, construction technology, power supply engineering.

目　录