ABSTRACT

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Method of Implementation of K1 Column Work in the BTN Branch Office Building Construction Project - Cibubur.
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(xi + 35 + Attachments)

Practical work is one of the compulsory courses in the civil engineering department which can provide direct learning to students to find out field conditions. The practical work was carried out at the BTN branch office building construction project - Cibubur. The construction of the BTN - Cibubur branch office building aims to increase the accessibility of financial services. The BTN - Cibubur Branch Office construction project uses lump sum and unit price contract types. This project uses a type of pile foundation with a concrete quality of fc' 30. The specific problem taken is the method of implementation of column work and the calculation of reinforcement requirements and concrete volume in column K1. The implementation method for columns starts from determining the column axles, fabricating column reinforcement, installing formwork, casting columns, dismantling formwork, and maintaining columns. The main reinforcement requirement for column K1 on the 1st floor is 8307.456 kg, the stirrup reinforcement for column K1 on the 1st floor is 1312.15 kg, and the concrete volume for column K1 on the 1st floor is 37.22875 m3.

Keywords: column execution method, reinforcement requirement, concrete volume.