

## **ABSTRACT**

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*Construction Project of the Faculty of Medicine, Jakarta Veterans National Development University, Method of implementing columns and calculating the volume of concrete requirements on the sixth floor of zone 2.*

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*(XIV+64+Attachment)*

*The Medical Faculty Building Construction Project which is located on Jl. Limo Raya, Limo District, Depok, West Java. This development is carried out on an area of 210,000 m<sup>2</sup> with a building area of 5,650 m<sup>2</sup> and has 8 floors with 1 basement. UPN Veterans Jakarta Education Foundation appointed PT. Arkindo KSO and PT. Galatama as the main contractor in building the project. In this project, the unit price contract type is used and the contract value is Rp. 48.372.900.000, this construction is planned for 270 days and a maintenance period of 6 months after the project is completed. Observations made in the field are in the form of lower structural work, namely tie beam work and upper structure work which includes column, beam, floor slab, and shearwall work. The method of carrying out column work includes preparation work, determination of column axes, fabrication, installation of reinforcement, checking of reinforcement, installation of formwork, checking of verticality, casting of columns, and column maintenance. Column concrete volume requirement on the 6th floor of zone 2 is 14,148 m<sup>3</sup> or equivalent to 18 concrete mixers with a load capacity of 0.8 m<sup>3</sup>.*

*Keywords : Column, Implementation Method, Concrete Volume.*