

## **ABSTRACT**

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*Thamrin Nine Development Project*

*Method of Implementation and Calculation of Steel Volume Needs at Campanile Tower 1 floor 70M Tier 1*

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*(XIV+106+Attachment)*

*Thamrin Nine Development Project is located at Jalan M. H. Thamrin No. 10 RT.009/ RW.005, Kel. Kebon Melati, Kec. Tanah Abang, Central Jakarta City, DKI Jakarta. This building is built on land with an area of  $\pm 38.000 \text{ m}^2$  and has a building area of  $\pm 266.000 \text{ m}^2$  with a building height of 385 m. PT. Putragaya Wahana applies as owner and construction management, PT. Acset Indonusa applies as the main contractor of phase 1, PT. Total Bangun Persada applies as the main contractor of phase 2. Construction of the project began in July 2013 and is expected to be completed in July 2022. The type of contract used in this project is Lump Sum Fix Price with a contract value of Rp 8,000,000,000,000.00. The project has a maintenance time of 12 months after the project is completed. Steel is an important element in today's construction world. In the Thamrin Nine construction project the campanile building was made of steel because steel is a strong construction material and lighter than concrete material. Campanile is one of the iconic buildings developed by PT. Putragaya Wahana which aims for the identity of a building and has a purpose for observation. The method of carrying out the work of campanile tier 1 steel structure starts from the preparation of work, preparation of tools and materials, installation of anchor, checking of anchor bolts, potent installation, installation of tier 1 columns and beams, verticality checking, grouting and checking (quality control). Based on the results of the calculation, the total steel weight requirement of campanile tier 1 buildings, which is 88.266,466 kg and the total steel volume of  $12.024059 \text{ m}^3$ .*

*Keywords: Implementation Method, Steel Structure, Campanile*