CONTROL PROGRAM DESIGN OF TIME, COST, QUALITY, AND CONSTRUCTION SAFETY IN THE MILLENNIUM BUILDING PROJECT
SD MUHAMMADIYAH 4
PUCANG AT SURABAYA

First Student's Name : Stefanus Hendy Limantoro
NRP : 3108.030.031
Program : Diploma in Civil Engineering
FTSP ITS

Second Student's Name : Diana Wahyu Hayati
NRP : 3108.030.072
Program : Diploma in Civil Engineering
FTSP ITS

Supervisor : Ir. Darman Katni S, MM
NIP : 19470308 198403 1001

ABSTRACT

On the construction work of The Millennium Building project in SD Muhammadiyah 4 Pucang at Surabaya, which consists of 4 floors in an area of 288.45 m², the program design of controls are required. With the implementation of the program design in the project, the results are expected to be in accordance with the plan. The program design consists control of time, cost, quality, and construction safety.

The program design of controls implemented in this final project are Precedence Diagram Method (PDM) for time control, unit price and tool’s productivity analysis for cost control, task check sheet for quality control, and safety check sheet for construction safety control.
According to the analysis in this final project, the structure construction of The Millennium Building in SD Muhammadiyah 4 Pucang at Surabaya, can be completed in 84 days or ± 3 months and requires total fee of Rp.2.553.230.159,56. Control of time, cost, quality, and construction safety are needed to finish the project as planned.

Keywords: control of time, cost, quality, and construction safety.