This study discusses the tools and labor productivity, on the work of casting plate/beam on the 4th floor (Zone 2), and the 5th floors. That’s on the 4th floor of the tools used concrete pump, while on the 5th floor using a tower crane. Therefore it can be identified that the tool and the labor affect the casting productivity of resulting. By the casting productivity, it can be seen how much influence the factors of tools and labor on the productivity, so as to know which factors are the most substantial influence on the increase in productivity. There are two kinds of data are qualitative (by questionnaires) and quantitative (field observation). Where tools (X₁) and labors (X₂) as independent variables, productivity (Y₁) and the quality of concrete (Y₂) as the dependent variables. All data were tested first by test validity, reliability, and coefficient of determination, prior to the hypothesis testing. By the data analysis, we concluded that the variable of tool affect the productivity on the task of casting plate/beam on 4th floor, while on the 5th floor affected by the variable of labor. On 4th floor the value of the casting productivity is greater than on the 5th floor. Thus, it can be indicated that the increase in the height of the floor, so then productivity will decrease.

**Keywords**: casting, concrete pump, plate, productivity, and tower crane.