

## **ABSTRACT**

*Uncertainty of demand projects frequently company has lack the resource who will do the next project because the resources still on the previous project when the previous project still on progress, accordingly the company usually do recruitment for part-time resources who will be fullfil the project resource's quota. Therefore an estimate of the allocation of resources to the project is needed to minimize recruitment of part-time resources.*

*The methods used on the research are resource leveling and forecasting with purpose of used the methods to evaluated and forecasted estimate allocation resources based on type of project*

*Based on calculation the results get from resource leveling are for building consists of 1 foreman, 8 workers, 5 blacksmiths, 4 masons, 4 carpenters, 3 electricians, 3 plumbers and 4 painters, civil buildings , 1 foreman , 3 workers, 2 blacksmiths, 2 masons, 2 carpenters, and 1 painter. While the forecasting are regression model for amount of resources consists of  $Y = 8.178 + 3.722E - 08x$  dan  $Y = 15.202 + 2.866E - 08x$  while the proportion for building consists of 0.10 for foreman ,  $y = (2.49 \cdot 10^{-10})x + 0.274$  for workers, 0.35 for blacksmiths, 0.14 for masons, 0.14 carpenters, and 0.15 for painter and building consists of 0.07 for foreman, 0.25 for workers, 0.16 for blacksmiths, 0.13 for masons, 0.11 for carpenters, 0.09 for electricians, 0.09 for plumbers and 0.14 for painters*

*Keyword: resources, estimated of allocation, resource leveling, linear regression analysis*