

## CHAPTER V

### CONCLUSION AND SUGGESTION

#### 4.7. Conclusion

From the results of the estimated cost of office building projects with *Cost Significant Model* method, that used secondary data from the recapitulation of the budget cost planning of 7 projects, then it can be conclude as follows:

##### 1. *Judging from Project Data Obtained*

In terms of implementation, the data obtained was held on the adjacent period in 2009-2011, while the data used to evaluate the accuracy of the cost significant model implemented in 2011.

In terms of project location, project data obtained implemented in Yogyakarta Special Region (Daerah Istimewa Yogyakarta). This will strengthen the uniformity of the data obtained.

In terms of building functions, the data obtained has the function of the same building as the office building. This will strengthen the uniformity of the data obtained.

##### 2. *Judging from Data Analysis and Discussion*

From the analysis and discussion of 7 research projects of the office buildings, obtained that the adjusted goodness of fit of the equation, indicating significant painting work variable is only 49.30%.

Cost model formula obtained for the office building project is as follow:

$$Y = 1791604 + 8.209 X_9$$

Where:

Y : Total Project Cost

X<sub>9</sub> : Paint Work

From the model tested, **“Police Commander’s Headquarters Building of Kulon Progo phase II (Gedung Markas Komando Polres Kulon Progo tahap II) 2011”** this project got the accuracy of estimation **-5.202789205%**.

Then, from second model **“Office Building of Land Affairs Department (Gedung Kantor Pertanahan) 2011”**, this project got the accuracy of estimation **+8.69152%**.

From the regression equation model testing showed that the predicted results for office building construction gets an accuracy of **-5.202789205%** and **+8.69152%**. Poh and Horner (1995) said in his paper that research for an offering activity, accuracy values ranging from 5% to 15% (Zakieh, 1991).

From the results above, the prediction of the price of an office building project in the future can be implemented more simply, quickly and fairly accurately, making this easier to use for the owners, consultants, and implementers. This cost model is also very practical to use at the beginning of the project cost estimation, as a means to control at project implementation, as well as a means of project evaluation at the end of the project.

#### **4.8. Suggestion**

From the analysis of the regression equation above, obtained painting work as independent variable that affect the total estimated price. Writer suggest to get maximum results and more valid results, should be developed similar cost model which is more detailed with more samples and items of work are more varied, so it can be compared with the cost models that already exist today. The more comparison, then it will get a more accurate cost model.

Although provided with cost model, but contractor especially estimator should calculate the work items and its components must be completely done carefully and precisely.

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