

## **ABSTRACT**

*Construction project of reinforced concrete structures are using concrete material and steel bar as the main component. Procurement of concrete material is usually ordered according to dimensions of the structure, while the steel bars are ordered per unit length of 12 meters. By using the conventional method of bar bending schedule (BBS), the total amount of steel bars can be calculated. However, using conventional method sometimes produced large amount of waste, because the amount of steel bar were ordered more than planned. If the waste can be reduced, so the total cost of the project can be reduced too. Therefore, pre-fabrication method will be used as comparison method to reduce the waste, and also saving costs.*

**Key words:** *assembly of steel bar, BBS, pre-fabrication method, waste*