

OPTIMAZING COST OF SEED RICE DISTRIBUTION USING ASM MODIFICATION METHOD

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ABSTRACT

Distribution is an activity that is often carried out in the community, including rice seeds which are the most agricultural products in the Lamongan district. But in practice it is only done in a random and unstructured way, so it often gets less than optimal results. The ASM method is one method that can solve transportation problems directly with one calculation stage without having to go through the optimization stage as in other methods. In this study, the modified ASM method is used because the distribution data is not balanced between supply and demand by adding dummy variables. In this study also compared with the VAM-MODI method. Based on the results of the study, the ASM method and the VAM-MODI method were both able to provide optimal results, supported by the results of using the POM-QM application as a validator for optimal results. Based on the calculation results, the ASM method provides shorter stages without going through the optimization stages compared to the VAM-MODI method which is carried out with the optimization stage. So that it can be concluded that the ASM method can be used to solve transportation problems with unbalanced data.

Keywords: Cost Optimization, Transportation Method, Modified ASM Method