

ABSTRACT

Textile industry in Indonesia is one of the most dye waste producer that pollute environment, one of waste that produced in textile is methylene blue. in this research, methylene blue purified using husk rice for bio absorbent. Treatment that used in this research is divided into four steps that is drying, boiling, steaming, and combination of boiling and steaming to increase the efficiency. Washing the husk rice is needed before to clean it up, in this research husk rice washed and dried for 8 hours. steaming time divided into 3,15 hours, 3,45 hours, and 4,15 hours. The results obtained in this research is that the best immersion time is in 90th hours for dried rice husk with 80,43% reduction percentage. for boiling method, the best immersion time in 3,15 hours, 3,45 hours, and 4,15 hours is in 90, 96 and 96 with 80,29%, 82,53% and 83,49% reduction percentage. For combination method, the best immersion time is in 30th hours with 69,52% reduction Percentage.

Keyword : Liquid waste of methylene blue, rich husk, adsorption