

## **ABSTRACT**

*In the currently research process the object of the research to do is a metal waste form a machining process in the engineering workshop. Where suc waste have a large contained and also can't be used or exploited at that place. The research that will be doing to get a exploration result, and get a benefit as to be utilized as a material in a products in order to add economic value and fuction. Exploration process will be conducted during six months, include explorations, production, and also preparation of research reports. Exploration will be done with experiment form, both physical and chemical experiments to get a results that can be recovered. The result from the exploration was obtained to be harnessed into a product that is appreciate and possible if using the material from the exploration result.*

**Key Words:** *waste, metal, exploration, material.*