

## **ABSTRACT**

*Holcim Indonesia is a producer of cement, ready-mix concrete, and aggregates as well as the only leading manufacturers that provide products and services are integrated. In the production process, Holcim Indonesia operates two plants in Narogong (West Java) and in Cilacap (Central Java), and one grinding station in Ciwandan (Banten). Cement production in Holcim will increase if the machines are excellent, one of which is a ball mill machine.*

*Ball mill is sub-assemblies used in grinding materials into finished cement. Ball mill is in frequent plant shut down condition. So does this affect the overall plant performance. For if the dead ball mill will lead to declines in plant productivity. In this research proposal generated preventive maintenance activities to minimize or prevent the occurrence of failure consequences.*

*Based on the research results obtained three types of proposed activities on condition that the task of preventive, scheduled restoration task, and scheduled discard task. In addition to generating the proposed activity, also produced and the amount of maintenance intervals man.hours to perform these activities. Effectiveness of the selection task is also based on the cost of care by incorporating the element of labor costs and loss of production for the task which requires the state to shut down.*

***Keywords: Maintenance Management, Reliability Centered Maintenance, Failure Mode and Effect Analysis, Least Square Curve Fitting, Goodness of fit tests, Cement Mill, Finish Mill, Holcim, Narogong Plant***