

## **ABSTRACT**

*CV XYZ is one of a companies that produces spare part which part of shockbreaker. It is named spring guide. Machine that has important role in CV XYZ is a plastic machine injection. It's function is to processed polypropylene seeds then it will be processed into spring guide product. To keep the plastic injection machine functioning normally, maintenance needs to be done. Damage that occurs can be caused by several external causes. They are Maintenance Crew and Skill, Operator Skill, Environment Factors and Dust, System Temperature, and Machine Oil Quality. RCS method is used to determined the amount of spare parts inventory that must be provided by company in order out of stock will not happened. According to the results if calculate covariates, component inventory needed for a year they are hoses 8 component, barrels 7 component, and motors 6 component. Whereas if without taking environment covariates calculation, component inventory needed for a year they are hoses 5 component, barrels 5 component, and motors 4 component.*

*Keywords : Maintenance, Plastic Injection Machine, Reliability Centered Spares*