

## **Abstract**

*PT Indonesian Aerospace is a company that manufactures aircraft in Indonesia and also become the world's subcontractor for aircraft such as the Airbus 320, 321 and 380. In the production process, waste activity occurs in the area of production so as to meet the demand mismatch often occurs with the resulting product demand, this is due to the long lead times in the production process.*

*In solving these problems is done by using Value Stream Mapping to describe the flow of value activity happens to do business improvements in minimizing waste with Lean Manufacturing. Research phase begins with the stage Currents State Drawing conducted to identify waste, then do the Detailed Activity Mapping Process Mapping using the percentage of activities that produce value added by 24,9 %, Necessary non-value added by 72,92% and non-value added at 2,18%. The next stage is to look for the causes of waste by using fishbone diagrams. The method is performed in doing improvement must be done by using lean manufacture tool which is 5S (seiri, seiton, sesiso, Seiketsu, Shitsuke) in order to eliminate all existing waste.*

*With the proposed implementation of 5S solution is obtained non value added activities could be eliminated and percentage value added activities could be increased so that shorter lead time could be obtained*

*Keywords: PTDI, Lean Manufacturing, Value Stream Mapping, Process Activity Mapping, 5S*