

## **ABSTRACT**

Until nowadays, supply chain material and product at PT MQCG still get obstacle in product or material information flow. production process that involve four water suppliers from any places in West Java not coordinated well, especially in material supplying that must be manage directly by PT MQCG.

Based on this condition, need redesign in existing MQ jernih production process in order to appropriate with customer needs, especially business process that connected with material supplying by supplier. Method that can be used to redesign is Business Process Improvement (BPI) in this case business process simulation. BPI will help in streamlining process MQ jernih production processes, by giving guarantee that internal and external customer from organization will get better output. Meanwhile Supply Chain Management integrating all stakeholder start from supplier to customer, so can be managed and distributed in production quantity, right location and time.

Result of the simulation suggestion production process can minimize Time of MQ jernih production process. By presentate can reduce time process 37.85 % ompared to existing production process from 19:48:55 hour to 12:22:04 hour and reduce supply chain material 10.20 % from 11:49:47 hour to 10:37:21 hour

keywords : production chain, Business Process Impovement.