ABSTRACT

PT Purna Baja Harsco is a company engaged in steel smelting services and waste management. The company produces PS Grit in its service called Slag Processing using a sieving technique. One of the activities in the PS Grit production process is that there is a sifting sub-process that has problems with time exceeding the standard so that it affects the PS Grit production cycle time. In the root cause analysis using fishbone diagrams and Business Process Improvement (BPI) analysis, it is known that the factor causing the problem is the occurrence of repeated activities, namely checking jumbo bags and adjust jumbo bag at the output hopper position. To improve the sifting process that is problematic to minimize time, a jumbo bag support tool is designed so that operators can easily prepare jumbo bags to maximize jumbo bag installation without having to do repeated inspections using the Quality Function Deployment (QFD) method. QFD is a product development method to translate customer needs into a technical characteristic as the basis for designing products to meet user needs. The design of the jumbo bag support device is expected to reduce repeated inspections of the sieving process from the total cycle time efficiency of 80% to 88%.

Keywords — PS Grit, Proses Pengayakan, Jumbo Bag, Business Process Improvement, Quality Function Deployment, Working Tool