

## ***ABSTRACT***

Laboratorium Pengendalian Kualitas Lingkungan(LPKL) PDAM Bandung is the company that examines the quality of the environment (water, soil, air). The activities carried out in the form of a test sample testing. At this time, LPKL PDAM Bandung has sought to implement Health and Safety (K3) to provide personal protective equipment such as gloves, boots and masks. But not all of the personal protective equipment provided LPKL PDAM Bandung is not used so that accidents such as the employment of workers exposed to chemicals, exposed to splashing hazardous materials or scratched other work tools. This research aims to devise a written procedure to reduce workplace accidents contained in LPKL PDAM Bandung based on the requirements of OHSAS 18001: 2007 and PP 50 in 2012.

Based on the actual condition of PDAM Bandung LPKL K3 regarding the research method used is HIRARC (Hazard Identification, Risk Assessment, and Risk Control). This method involves identifying the hazards that occur throughout the sample test process activity and assess all potential dangers to do control the potential hazards that are tailored to the requirements of integration between OHSAS 18001: 2007 with PP 50 in 2012. In the data collection phase is obtained that there are many potential hazards that would occur in LPKL PDAM Bandung. Results of the integration requirements that have been adapted to use HIRARC activity analysis showed that, required written procedures and personal protective equipment (PPE) to reduce any potential hazards that would occur in each activity. This procedure is also focused on helping workers in providing knowledge of the importance of K3.

**Keywords: OHSAS 18001: 2007, PP 50 In 2012, HIRARC, Occupational Health and Safety, K3**