PT. Petrowidada is a company engaged in chemical industry producing Phthalic Anhydride (PA). In 2005 PT. Petrowidada merged with 2 other companies, namely PT. Eterindo Graha Nusa and PT. Anugerahinti Gemanusa. Therefore, the entire administration and management of the company merged into one. It also covers the management of waste and hazardous waste warehouse centralized in one place.

This study is started with the collection of data in form of the data type of waste, the amount of waste data, location-dimensional design, pallet, container bags, drums, and forklifts. The data processing is done in the form of a redesign of the warehouse dimensions and layout of hazardous waste warehouse, the need for ventilation, the need of lighting, determine the type, number and placement of the detector, determining the type, number and placement of fire extinguisher. Which refers to the BAPPEDAL, SNI 03-6572-2001, 03-6575-2001 SNI, SNI 03-3985-2000, Permenakertrans RI no. Per-04/MEN/1980.

Based of the research which has been done, it was found that the dimension of hazardous waste planned warehouse is 23m x 22m x 5m with the layout of the waste in accordance with needs. Needs of exhaust fan is 3 units. Lighting needs 12 lamp uses 4 TL 40 W The total number of detectors needed in the design of hazardous waste repository is 56 units. The type fire extinguisher in accordance with the hazardous waste warehouse that is designed is the type of dry powder and salt containing alkali Natriumbikarbonat weighing 12 kg as many as 7 pieces.

Keywords: Hazardous Waste Warehouse; Layout of Hazardous Waste Warehouse; Ventilation; Lighting, Detector; Fire Extinguisher