Abstract

Sources of noise, especially in industrial areas often occur because of the sand separator design of the production site or use noise-canceling does not work properly. From the results of field observations, obtained the highest value is 85-101 dB noise generated by industrial generators sand separator. One attempt to reduce the noise level on the generator is to design a cube-shaped enclosure with length = 7m, width = 7m, and height = 4m. From the calculations have been done then the enclosure obtained by using the material: Polycarbonate value $L_{P1} = 103.56$ dB and $L_{P2} = 82.98$ dB resulting in a decrease of $20.58$ dB. Bricks value $L_{P1} = 103.95$ dB and $L_{P2} = 79$ dB resulting in a decrease of $24.95$ dB. So that it can be seen from the results above the threshold value has been reached under the $<85$ dB.

Keywords: Noise; enclosure.