

ABSTRACT

Almost all automobiles in the world are emitting a huge amount of exhaust gases to the atmosphere every day. These exhaust gas contains harmful substances like carbon monoxide, oxides of nitrogen, hydrocarbons, and other toxic substances. If these substances go on increasing they will cause several diseases like blood circulatory problem, lung diseases, bronchitis, blood cancer, etc. Also they may cause different environmental problems like acid rain, greenhouse effect, etc. So the emission of these substances should be controlled as far as possible. In this project we made a small effort for reducing the emission of CO from the exhaust of automobiles by implementing a natural fiber at the engine outlet. A natural fiber is a device incorporated into the exhaust system of an automobile that reduces the amount of pollutants in the automobile's exhaust gases. The natural fiber consists of a cylinder inside which a fiber (Cr_2O_3 coated on MnO_2 for our project) is put. When the CO in the exhaust gas flows across the fiber, it will be turned to CO_2 . This system reduces the NO_x and HC by 60% and 90% respectively.