

## **Effects of plastics in environmental aspects and a need of Bio Nano composites for current scenario**

In this era of increasing technological development in the world that environment issues on the rise. The world researchers focused on reducing the environmental pollution. Researchers carry out their research in the way that does not cause much harmful environment. However, reducing the environmental pollution is not entirely possible. Because, the use of toxic substances is also essential to the society. so plastic is one of the material that can be used for such an essential need. Plastic is extracted from many types of petro-chemicals such as; ethylene, propylene butadiene, benzene, toluene and xylene. These petro-chemicals are all non-degradable. When burns of bio-degradable polymers, dioxin chemical is released. It is highly toxic chemical substances. Although, the plastics are better in terms of cost and recyclability at the same time, it is harmful to the environment. Considering to this, the new types of bio-degradable polymers are being made from the researchers. In addition, materials are made from naturally occurring various plant fibers and nanoparticles to strengthen the biodegradable polymer. The bio-degradable polymer based Nano composites plays an important role in water, soil and air purification. Meanwhile, production of nanoparticles can be made from various toxic chemicals ( $H_2SO_4$ ,  $HCl$ ,  $HNO_3$ ,  $KMNO_4$  etc.,) should be discarded and made using environmental friendly chemicals. Thus way to prepared can give the best application to this world.