VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAUM – 590 014

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PROJECT REPORT

ON

"CONVERSION OF ECO-UNFRIENDLY PLASTICS INTO FUEL"

Sponsored by Karnataka State Council for Science and Technology(KSCST), Bangalore.

Project Associates:

R.DILIP KUMAR
(USN: 4GM07ME011)

MANISH.B.LALSANGI
(USN: 4GM07ME019)

SANTOSH SHETTI
(USN: 4GM07ME049)

SACHIN.H.M
(USN: 4GM04ME029)

Under the Guidance of:

Mr. BASAVARAJAPPA.D.N B.E, M.Tech [ESE],MISTE.

Asst.Professor, Dept.of Mechanical Engineering

DEPARTMENT OF MECHANICAL ENGINEERING

G M INSTITUTE OF TECHNOLOGY

#4, P B Road, Davangere – 577006

ABSTRACT

In recent year, the progress of science and technology has brought us a convenient and comfortable lifestyle. On the contrary the environmental problems in the terrestrial scale of the lack of energy and resources, the acid rain, the ozone layer depletion, the global warming and desertification, a large quantity of waste produced by mass production and consumption are disposed, especially by incinerator. All over the world, waste plastics create a very serious environmental challenge because of their huge quantities and their disposal problems. Recycling has become a major response to the environmental challenges facing the plastics industry. Pyrolysis of waste plastics is one of the routes to waste minimization that has been gaining interest in recent times. A compact unit is designed that can pyrolyze a mixture of waste plastics and used oil. The product of the process is a liquid oil that has considerably reduced viscosity and which can be either used a s fuel directly or as a feedstock for refineries.