

PROJECT REPORT ON
"AUTOMATIC FERROUS POWDER SEPARATOR"
(Sponsored by K.S.C.S.T. Bangalore)

Project report submitted to Visvesvaraya Technological University, Belgaum,
in partial fulfillment of the requirement of the award of Degree of
Bachelor of Engineering
in
Mechanical Engineering



Submitted By:

VIJAYA.H	: 1SI07ME419
VISHWAJEETH.K	: 1SI07ME420
DARSHAN.K.B	: 1SI03ME022
UMESH.P	: 1SI05ME429
VIKASH ANAND	: 1SI05ME133

Project Guide:

Mr. Madhu.M.C

(M.Tech.)

Lecturer

Mechanical Engineering Department

S.I.T., Tumkur



DEPARTMENT OF MECHANICAL ENGINEERING
SIDDAGANGA INSTITUTE OF TECHNOLOGY

TUMKUR-572103

2009-2010

SYNOPSIS

In India, there is a lot of scope of separating the iron from any contaminants. From the practical necessity to obtain iron from its ore or in the process powder metallurgy various separating methods and machines are used, various types of separators based upon the different working medium have been developed and used and is still it gives the wide range to perform research and reach optimum efficiency. To obtain optimum amount of ferrous from its ore it is desirable for small scale industries to carry out the whole separation work requiring minimum investment, less time and still high efficiency.

In the present study our team based upon the mechanics and physics theorem has taken initiative to apply combination of centrifugal force and magnetic force. Our case study can be broadly classified in the section of separating solid from solid. Our effort is an integration with the various other method which are been now used for separation of the iron.