

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM**



**PROJECT REPORT
ON**

**“DESIGN AND FABRICATION OF HAND
OPERATED SPRING COILER MACHINE”**

(SPONSORED BY KSCST, BANGALORE)

Submitted in partial fulfillment for the award of Bachelor of Engineering in

MECHANICAL ENGINEERING

Under the guidance of

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ABSTRACT

The hand operated spring coiler is used to make almost all types of springs like compression springs, torsion springs and extension springs manually without use of energy like electricity and low cost of production with no need of skilled labours with requirement of the less space.

The coiler machine is a simple arrangement of mechanical parts and cost is also less .In this coiler machine can produce compression springs, torsional springs as well as extension springs. It avoids the redundancy of using huge costlier CNC -MACHINES in small and medium scale industries and because it is manually operated machine it will be able to coil the wire around 4mm diameter will be applicable in many fields.

This consists of winding the wire around a central mandrel of a diameter that will allow or elastic recovery of the spring to the desired dimension on release. The machine required for mandrel coiling is essentially simple one involves horizontal rotation on the mandrel at controller speeds.