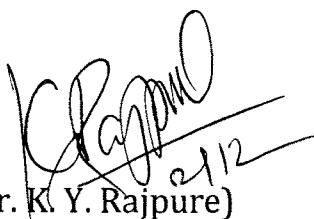


CERTIFICATE

This is to certify that the dissertation entitled "**STUDIES ON SYNTHESIS AND CHARACTERIZATION OF Co AND Ni DOPED ZINC OXIDE THIN FILMS**", being submitted herewith for the award of degree of **Master of Philosophy in Physics** under the faculty of **Science** in Shivaji University, Kolhapur is the result of the original research work completed by **Mr. S. K. Patil** under my supervision and guidance and to the best of my knowledge and belief, the work embodied in this dissertation has not formed earlier the basis for the award of any degree or similar title of this or any other university or examining body.

Place: Kolhapur

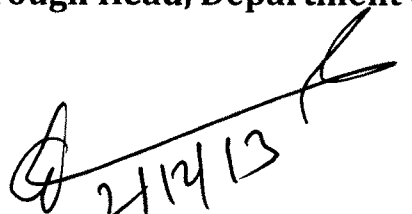
Date: 2/12/2013


(Dr. K. Y. Rajpure)

Research guide

Forwarded through Head, Department of Physics

Dr. K. Y. Rajpure
Assistant Professor
Department of Physics,
Shivaji University,
Kolhapur-416 004 (M.S.) India.


Dr. C. D. Lokhande
Prof. & Head
Department of Physics,
Shivaji University,
KOLHAPUR.

DARR. BANASHEE KHARDEKAR LIBRARY
SHIVAJI UNIVERSITY, KOLHAPUR