## DECLARATION

I here by declare that the work reported in this dissertation is original and carried out by me under the guidence of Dr. P.B. Joshi, Reader and Head, Department of physics, centre for P.G. Studies, Shivaji University, Solapur.

I further declare that this work has not formed the basis for the award of any Degree. Diploma or a similar title of any other Institute.

[ S.D. Gothe]

Forwarded through the Research Guide

Jooks OB

[ Dr. P.B. Joshi ]

Reader and Head,

Department of physics

Centre for P.G. Studies

Shivaji University, Solapur.

Solapur

Date : 27 - 11 - 92