## DECLARATION

This dissertation and work it describes are essentially original, except where the reference is made to the work of others. No part of this thesis has been or is being submitted to any other University.

• • •

Signature of the student

( C.H. Bhosale)

Forwarded through the guide.

( Dr. S. H. Pawar )

M.Sc., Ph.D., F.I.C.C. Reader in Solid State Physics,

Shivaji University, Kolhapur-416004.