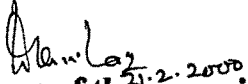


CERTIFICATE OF THE SUPERVISOR

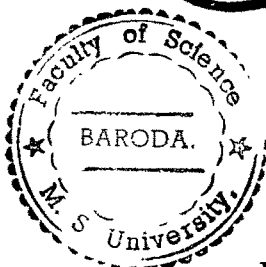
This is to certify that the work entitled "**MÖSSBAUER SPECTROSCOPIC AND OTHER PHYSICAL STUDIES TO INVESTIGATE THE EFFECT OF MODIFIER IN SEMICONDUCTING BORO-VANADATE-IRON GLASS SYSTEM**" is a piece of research work done by **Mr. Harshvadan R. Panchal** under my guidance and supervision for the degree of **Doctor of Philosophy** of **M.S. University of Baroda, India**. That the candidate has put in an attendance of more than 200 days with me.

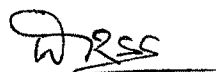
- To the best of my knowledge and belief the thesis
- (i) embodies the work of the candidate himself,
 - (ii) has duly been completed,
 - (iii) fulfills the requirements of the ordinance relating to the Ph.D degree of the University and
 - (iv) is up to the standard both in respect of contents and language for being referred to the examiner.


Signature of the supervisor
(Dr. Dinesh K. Kanchan)
Reader in Physics
M.S. University of Baroda,
Vadodara -390 002.

Forwarded through the Head of the Department

Forwarded through the Dean





Head,
Physics Department,
M.S. University of Baroda,
Vadodara.



Dean,
Faculty of Science,
M.S. University of Baroda,
Vadodara.