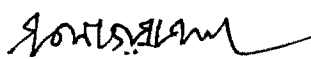
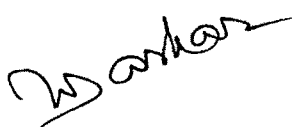



CERTIFICATE

I hereby declare that the work presented in this thesis is original and has not formed the basis for the award of any degree or diploma by any University or Institution.


Manoj Kumar Samal
(AUTHOR)

Certified by :


Dr. Utpal Sarkar,
(Guide),
Physical Research Laboratory,
Ahmedabad 380 009, India.


Dr (Ms) M S Shah,
(Co-Guide),
M. S University of Baroda,
Baroda