Declaration

I, Girish Chandra Tewari, hereby declare that the thesis submitted for doctor of philosophy degree is entirely original and the work presented in it is carried out by me at the School of Physical Sciences, Jawaharlal Nehru University, New Delhi, India under supervision of Prof. Ashok Kumar Rastogi.

I further declare that to the best of my knowledge, this work either in part or full, has not form the basis for any degree, diploma, dissertation or similar title at any university or institute. I have acknowledged all the sources of information that have been used in this thesis.

Girish Chandra Tewari
School of Physical Sciences
Jawaharlal Nehru University
New Delhi – 110067

Prof. Subir K. Sarkar
Dean
School of Physical Sciences
Jawaharlal Nehru University
New Delhi – 110067

Prof. Ashok Kumar Rastogi
Thesis Supervisor
School of Physical Sciences
Jawaharlal Nehru University
New Delhi – 110067