

DECLARATION

I hereby certify that the research work which is being represented in the thesis entitled *Design and Implementation of Clustering and Routing protocols for Wireless Sensor Network* in partial fulfillment of the requirements for the award of the Degree of Doctor of Philosophy and submitted in the Department of Electronics and Communications Engineering of Manipal Institute of Technology Manipal is an authentic record of my own work carried out during a period from March 2008 to March 2012, under the guidance of **Dr. Puttamadappa C, principal**, Sapthagiri College of Engineering, Bangalore and co guidance of **Dr. H.S. Mruthyunjaya , Professor**, Department of Electronics and Communication Engineering, Manipal Institute of Technology, Manipal. The matter presented in this thesis has not been submitted by me for the award of any other degree of this or any other Institute/University.

Place: Manipal

Date : 21-08-2013

Bore Gowda S.B