



**UNIVERSITY OF NORTH BENGAL**  
**DEPARTMENT OF BOTANY**  
**IMMUNO-PHYTOPATHOLOGY LABORATORY**



August 05, 2013

**CERTIFICATE**

We certify that Mr. Kiran Sunar has prepared the thesis entitled “Studies on soil microbial diversity of Darjeeling hills and their evaluation for utilization in the improvement of crop health”, for the award of Ph.D degree of the University of North Bengal, under our guidance. He has carried out the work at the Department of Botany, University of North Bengal.

(Professor B.N. Chakraborty)

*(Professor B. N. Chakraborty)*  
Department of Botany  
University of North Bengal

**Supervisor**

(Professor U. Chakraborty)

*Professor U. Chakraborty*  
Department of Botany  
University of North Bengal

**Co-Supervisor**