

No. 1317779

# DIBRUGARH UNIVERSITY



*This is to certify that  
Rajib Biswas  
of the Department of Physics has fulfilled the requirements for the  
Degree of Doctor of Philosophy in Physics in the year 2013.*

*The Degree of Doctor of Philosophy is hereby conferred on him/her.*

*Issued under the Seal of the University  
in the Republic of India.*

*A. L. Biswas*

Vice-Chancellor

Dibrugarh, Assam,  
The 22 JAN 2015