

**Koustubh Panda M.Tech, Ph.D**

**Professor & Head**  
**Department of Biotechnology & Dr. B.C. Guha**  
**Centre for Genetic Engineering & Biotechnology**  
**Chairman, Ph.D. Program in Biotechnology**  
**University of Calcutta**  
**Director, West Bengal Biotech Development Corporation**



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Date: 21.05.2025

**TO WHOM IT MAY CONCERN**

***PROJECT TRAINING CERTIFICATE***

This is to certify that **Mr. Jishnu Sarathi Deb** has completed his Research Project Training from 10.07.2024 to 21.05.2025 under my (Prof. Koustubh Panda) supervision in the Department of Biotechnology & Dr. B.C. Guha Centre for Genetic Engineering & Biotechnology, University of Calcutta.

Mr. Deb underwent extensive training in the application of several fundamental techniques routinely used in experimental biology/biotechnology. Mr. Deb has procured adequate hands-on experience in animal handling and treatment, animal tissue collection and preparation, different protein estimation techniques, SDS-PAGE, Western blotting, ELISA, immunohistochemistry densitometric analysis of protein expressions, and spectrophotometric analysis of different biomolecules to be able to perform them independently. He was also trained in Good Laboratory Practices (GLP) governing academic and professional research.

Mr. Deb was also involved in a project entitled "**Examining the Role of Vitamin A & E in the Prevention of Asthmatic Lung Damage,**" presently being conducted in my lab. In the eleven months of his training, he contributed the data included in this report for this project.

Mr. Deb has sincerely and diligently pursued the work assigned to him and is in a position to pursue research projects of his choice in any reputed lab.

Signature of Supervisor

*K. [Signature]* *[Signature]*  
**KOUSTUBH PANDA**  
Head & Co-ordinator  
Department of Biotechnology &  
Dr. B.C. Guha Centre for Genetic  
Engineering and Biotechnology  
University of Calcutta

**Supervisor: Professor (Dr.) Koustubh Panda**  
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