



भारतीय प्रौद्योगिकी संस्थान खड़गपुर

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जैव प्रौद्योगिकी विभाग

Department of Biotechnology

April 21, 2021

LETTER OF RECOMMENDATION

It is my great pleasure that I write in support of **Mr. Anindya Sundar Dey**, a former dual degree (B. Tech and M. Tech) student of Biotechnology and Biochemical Engineering for admission in to the joint doctoral program of IIT Kharagpur and the University of Manchester. Anindya joined our department after qualifying highly competitive IIT JEE in 2015. I have known Anindya for the last five years as one of my students of different Biotechnology courses, e.g. Cell and Molecular Biology (theory), Gene Expression, Immunotechnology (laboratory), Recombinant DNA Technology (theory and laboratory) etc. So, I feel I am in a position to assess his scholastic ability.

Anindya was very sincere and attentive in all my classes. His classroom inquiries clearly demonstrate his alertness, craving for details, insightful thinking and analytical prowess. He scored very good grades in all my courses. I believe he has acquired a sound knowledge in different Biotechnology and Biochemical Engineering subjects. Besides regular course work, Anindya also worked in my lab in a mini project entitled "extraction of toxins from *Aspergillus flavus*". He successfully purified aflatoxin B1 from this fungus which was used later for the production of antibody against this toxin. He also did one summer internship project in the National Centre for Cell Sciences, Pune, India, entitled "Microorganism associated to Ethnic fermented food and their potential to probiotics", and one in IIT Kharagpur entitled "Characterization of microbial communities from a waste dump-site and exploring the hydrocarbon degrading ability of these microbes. He did his final year B. Tech and M. Tech project on the topic entitled "Evaluation of low density polyethylene (LDPE) biodegradation potential of natural microbiome and isolated species". Working in these various projects he has learned various microbiological, molecular biological, biophysical and bioinformatics techniques. He has published one research paper in peer reviewed reputed journal. Since Prof. Sar's laboratory is adjacent to mine I have seen him working hard and spending long hours to finish the experiments. On frequent scientific discussion I found him intelligent and highly motivated to research. At personal level, he is modest, sincere and cooperative with all the students and research scholars in the department. He used to attend all the scientific seminars in our department and participate in discussion. Anindya is fluent in English (both written and oral) as seen from his project report writing, seminar presentation and discussion.

From all these and his innovative thinking ability, I view him a promising graduate student with full potential of success and rate him among top 5% of all the students that I have encountered in India and abroad. Anindya is interested to pursue his career in Biological research in the area of Environmental Biotechnology and Microbiology and I think he should be given an opportunity to achieve his goal. Therefore, I am strongly recommending him without any reservation for admission to the joint doctoral program of IIT Kharagpur and the University of Manchester.

Ananta K. Ghosh

Ananta K. Ghosh, Ph.D. 21.4.2021

Professor,

Department of Biotechnology



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