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### **Savitribai Phule Pune University**

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#### **TO WHOM IT MAY CONCERN**

I offer my highest recommendation for Ms. Barnika Chakraborty who is applying for the PhD program.

Barnika is a soft-spoken, motivated and bright student who completed her masters in Medicinal Chemistry at Savitribai Phule Pune University (SPPU), Pune in June 2021. I have known Barnika as a M.Sc. student in my theory class. She has carried out a short-term project at Savitribai Phule Pune University, Pune (July-August, 2021). On the topic “ZnO nanoparticles: synthesis and applications” under Prof. B. G. Ankamwar and continuing as a project trainee in his laboratory from August, 2021 to date working on “Biosynthesis of copper nanoparticles and their applications”. In addition, she has played a major role in writing a book chapter titled “Morphology based Biosensing of Metallic Nanoparticle” as a first author which is submitted for publication. This shows her proficiency in English writing.

Apart from this, Barnika spent four months as a project trainee at CSIR-CDRI, Lucknow (March-July, 2021) and was involved in ‘organic synthesis of n-tosylimines and azzirenes for visible-light mediated photocatalytic reactions’ in the research laboratory of Dr. Namrata Rastogi (Principal Scientist). She goes along well in the group and can work independently. She can handle small equipment like conductometer, pH meter, potentiometer, spectrophotometer, polarimeter, etc. and has interpretational skills for XRD, SEM and EDX. She has good command over computer-based softwares Chem Draw, Mnova, Origin and is well-versed with MS Word, MS Excel, MS Power point, Python (Basic) and Sci Finder.

In the meantime, Barnika worked as a subject matter expert at Chegg Pvt. Ltd., a private chemistry tutor, as a public speaking moderator of English; attended many online workshops and conferences during 2020-21 like CSIR-Summer Research Training Program (Online, June-August, 2020) at NEIST, Jorhat, Assam; CSIR-CERI Skill Development Training (Virtual mode, 21-25 June 2021) program on “Energy Materials-Fundamentals to Device Fabrication”, to name a few and gave poster and oral presentations at International E-Conference (December 2021, first prize); Prof. Arnikar Lecture Competition at SPPU 2020 and more. She has good communication skills and command over English as a language.

Barnika won CSIR-NCL scholarship (Merit-Based) for performance in Masters and many medals for sports in different categories and academic excellence. She is sincere, hard-working, and readily makes new friends. I offer my highest recommendation for Barnika for the Ph.D. program she is applying for.



(Anupa A. Kumbhar)