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BONAFIDE CERTIFICATE

This is to certify that the work incorporated in the project report entitled "GROWTH AND CHARACTERIZATION OF PbS THIN FILMS BY CHEMICAL BATH DEPOSITION" submitted to Savitribai Phule Pune University, Pune, is benefited work of **MR. GAVHANE NAVNATH JAGANNATH** of B.Sc. (Physics) during the academic year 2019-20, who carried out the project work under my supervision



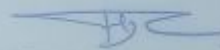
Prof. VIRKAR AVINASH

Guide

Department of Physics

Physics

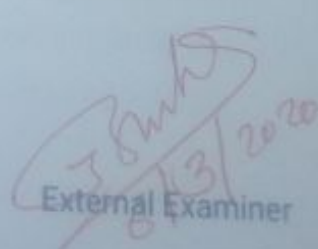
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Dr. Sadekar H.K.

Head

Department of



External Examiner

ACKNOWLEDGEMENT

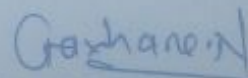
I wish to thank the Principal **Dr. Shankar Laware** of my college for permitting me to use all the facilities available in the institution for my project work. I would also like to thank the Head of the Physics Department **Dr. Sadekar H.K.**, the teaching faculty and all the non-teaching staff of my college for their support in completing the work successfully.

I am grateful to my Guide **Prof. VIRKAR AVINASH.**, for his encouragement, guidance and supervision of my project work during the year. I must acknowledge the financial support given to this project by my parent without which it would have been difficult to complete the work in time.

My classmates have been of great help to me the project work. My ideas were shaped and refined progressively through my discussions with them from time to time. I cannot miss to thank them all. There were some persons like **Prof. Bhakare C.H.**, **Prof. Dushing Sawti E.** **Shri. Telore S.S.** who were directly but indirectly involved in my preparatory/practical work. I appreciate their contribution and thank them too.

Place: Sonal

Date:



Signature of Research Student

Mr. GAVHANE NAVNATH J.
(B.Sc. Physics)