

**GROWTH AND CHARACTERIZATION OF Pbs THIN  
FILMS**

**A PROJECT REPORT SUBMITTED TO  
SAVITRIBAI PHULE PUNE UNIVERSITY,  
PUNE**



**FOR THE DEGREE OF  
MASTER OF SCIENCE  
IN  
PHYSICS**

**UNDER THE FACULTY OF SCIENCE**

**BY**

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**UNDER THE GUIDANCE OF**

**Dr.Sadekar H.K.**

**DEPARTMENT OF PHYSICS,  
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**2022-23**

Seat No.

SAVITRIBAI PHULE PUNE UNIVERSITY

**BONAFIDE CERTIFICATE**

This is to certify that the work incorporated in the project report entitled “**Growth and Characterization of PbS Thin Films**” submitted to Savitribai Phule Pune University, Pune, is benefited work of **Mr. Darandale Uday Patilba** of M.sc. (Physics) during the academic year 2022-23, who carried out the project work under my supervision



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Place: Sonai

  
Signature of Research Student

Date: 23-05-2023

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