

A PROJECT REPORT ON  
"synthesis and characterization of metal oxide nanoparticles  
by using sonneratia alba apetala leaf extract and it's  
antimicrobial activity"

SUBMITTED TO

TULJARAM CHATURCHAND COLLEGE OF ARTS,  
COMMERCE AND SCIENCE, BARAMATI, PUNE



AS A PARTIAL FULFILMENT OF THE DEGREE  
MASTER OF SCIENCE IN INORGANIC CHEMISTRY BY

RAKATE AJIT SUDHIR

Roll No-16341

KHARAT ATUL SUKHDEV

ROLL NO-16351

UNDER THE GUIDANCE OF

Miss. Prof.R.T.Gadadare

DEPARTMENT OF CHEMISTRY



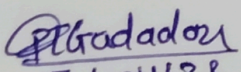
TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE  
AND SCIENCE, BARAMATI.PUNE

2022-23

## Certificate

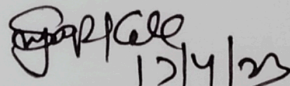
This is to certify that, Mr. **Rakate A.S., Kharat A.S.** has successfully completed the project. **"synthesis and characterization of metal oxide nanoparticles by using sonneratia alba apetala leaf extract and it's antimicrobial activity.** Which is being submitted here with as a partial fulfillment of the award of degree, master of science in analytical chemistry, TULJARAM CHATURCHAND COLLEGE OF ARTS, COMMERCE AND SCIENCE, BARAMATI PUNE. is the result of project work completed under my supervision and to the best of my knowledge and belief the work embodied in this is report has not formed earlier for any degree of similar title of this or any other University or examining body.

DATE: 17/04/23

  
17/04/23

Miss. Prof. R.T. Gadadare

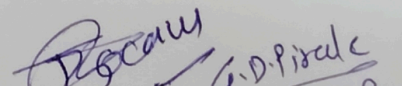
Project guide

  
17/4/23

Prof. S.R. Kale

Head  
HOD Chemistry

DEPARTMENT OF CHEMISTRY  
Tuljaram Chaturchand College  
Baramati (Dist. Pune)

  
G.D. Pisale  
20/04/23

External

Examiner