2021-2022.

## Tuljaram Chaturchand college,

Baramati – 413102 (Pune)

DEPARTMENT OF CHEMSTRY



## **CERTIFICATE**

Roll No. 16471

Exam No.

This is to certify that, Mr. Ware Prajwal Hindurao. (M.Sc. II Analytical Chemistry) has successfully work on, the project entitled "synthesis of Dyes and Pigments Of Phthalocynine Ligand With Various Metals" in department of chemistry under the guidance of Prof. Gadadare R. T. during academic year 2021-2022 partial fulfillment for award of Master of Science in Analytical Chemistry.

Prof. R.S. Bhondave

PG Co-ordinator

External Examiner

Prof. Gadadare R. T.

Project In-charge

Department of Chemistry

Prof. Kale S.R

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

## Anekant Education Society's Tuljaram Chaturchand College, Baramati



## PROJECT REPORT

ON

"SYNTHESIS OF DYES & PIGMENT OF PHTHAIOCYNINE LIGAND WITH VARIOUS METALS"

At

TULJARAM CHATURCHAND COLLEGE BARAMATI

Submitted to

**DEPARTMENT OF CHEMISTRY** 

For

M.SC.II Analytical CHEMISTRY

Ву

Mr. Ware Prajwal Hindurao.

Under the Guidance of

Prof. R.T. Gadadare