

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.



CERTIFICATE

This is to certify that Project entitled as "Synthesis of metal oxide- ZrO_2 , CuO , CoO , nanoparticles by using natural gum capping and reducing agents. Submitted by Mr. Yogeshwar Punjaram Aher class M.Sc. Part-II (Inorganic chemistry) has satisfactorily completed the short term project report in M. Sc. Inorganic chemistry degree of Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

Year: - 2017-18

Roll No: - 01

Exam Seat No - CHID004001

Capt. Dr. S. T. Gaikwad

Project Guide

Professor
Department of Chemistry

26.04.2018
Examiner

Capt. Dr. S. T. Gaikwad

Head of Department

Professor & Head
Department of Chemistry

**Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.**

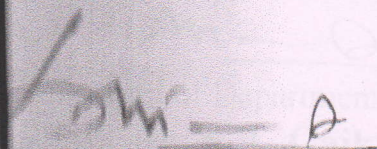


CERTIFICATE

This is certified that the Project entitled "Synthesis And Characterization Of Oxalate and Phthalate Complexes", being submitted by Miss. Awachar Prerna Milind for admittance to the degree of "Master of Science in Inorganic Chemistry" from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision.

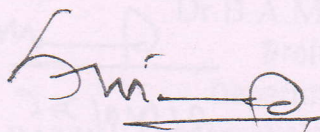
Roll No. CHID004002

Date: 25 /04/2018


Dr. S. T. Gaikwad
Professor and Head

Professor & Head
Department of Chemistry
Babasaheb Ambedkar Marathwada University
Aurangabad


26.04.2018
Examiner


26/04/18


Dr. S. T. Gaikwad
(Project Guide)

Professor
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD - 431004 (MS) INDIA
DEPARTMENT OF CHEMISTRY



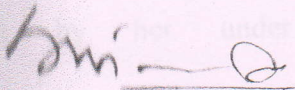
CERTIFICATE

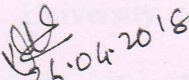
This is to certify that the present work in the form of dissertation entitled "Synthesis of metal oxide- ZnO, NiO, CrO₂ nanoparticles by using natural gum as a capping and reducing agents" is carried out by Mr. RAJESH TABAJEE BHAWALE student of M.Sc. Part-II (Inorganic chemistry) during the Academic year 2017-18 under my Guidance and Supervision in the Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [M.S.]. It has not been submitted or published anywhere in any form.

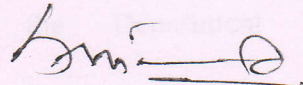
Year 2017-2018

Roll No. 04

Exam seat No. CH10004004


Head of Department
Capt. Dr. S. T. Gaikwad
Dept. of Chemistry,
Dr. B. A. M. U. Aurangabad
Professor
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University


26.04.2018
Examiner


Guide
Capt. Dr. S. T. Gaikwad
Professor and Head
Dept. of Chemistry,
Dr. B. A. M. U. Aurangabad
Professor & Head
Department of Chemistry

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

Dr. Babasaheb Ambedkar Marathwada University,

Aurangabad (MS)-431 004



Department of Chemistry

Phone: +91-240-2403311,

Fax: +91-240-2400291;

CERTIFICATE

This is to certify that Miss. Jyoti Yuvraj Baraskar has carried out the work embodied in this thesis entitled, "SYNTHESIS AND CHARACTERISATION OF SCHIFF BASE FROM P-CHLORO ANILINE WITH SALICYLALDEHYDE AND THEIR APPLICATION" submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for the award of the degree of Master of Science, in the subject of Inorganic Chemistry was carried out by her under my supervision in the Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University Aurangabad (MS). This work was not previously submitted by her to this or any other University for the award of any Degree, Diploma, Associateship.

Project Guide

Professor

Department of Chemistry

**Dr. Babasaheb Ambedkar Marathwada University
Aurangabad**

26.04.2018

Examiner

Head, Dept. of Chemistry

Professor & Head

Department of Chemistry

**Dr. Babasaheb Ambedkar Marathwada University
Aurangabad**

Aurangabad-431004

**BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.**



CERTIFICATE

This is certified that the Project entitled "Synthesis and characterization of Nickel Oxide, Manganese Oxide based nanoparticles", being submitted by Miss. Vidhya Dattatrya Chavan for admittance to the degree of "Master of Science in Inorganic Chemistry" from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision.

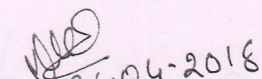
Project No.: -CHID004005

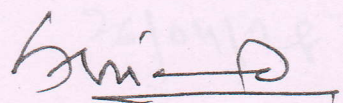
Date: 26/04/2018

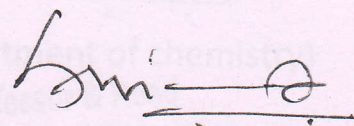


Project Guide

Professor
Department of Chemistry
Babasaheb Ambedkar Marathwada University
Aurangabad


26.04.2018
Examiner


26/04/18



Professor & Head

Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

**Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.**

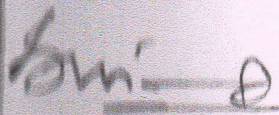


CERTIFICATE

This is certified that the Project entitled "Synthesis and characterisation of ligand and transition metal complex" being submitted by **Ms. Arti Suresh Gaikwad** for admittance to the degree of "Master of Science in Inorganic Chemistry" from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision.

Seat No.:- CHID004006

Date: 25/04/2018

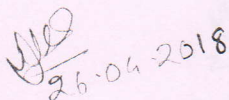


Project Guide

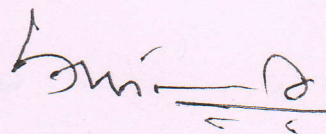
Professor

Department of Chemistry

Dr. Babasaheb Ambedkar Marathwada University
Aurangabad


26-04-2018

Examiner

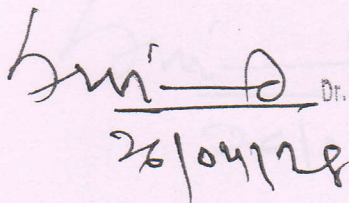


Head (Department of chemistry)

Professor & Head

Department of Chemistry

Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

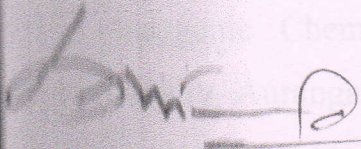

26/04/2018

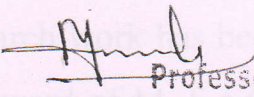
CERTIFICATE


This is certified that the Project entitled "Synthesis and characterization of activated carbon using Agricultural Waste being submitted by Ms. **Kanthale Jaya Ramesh** for admittance to the degree of "Master of Science in Inorganic Chemistry" from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision.

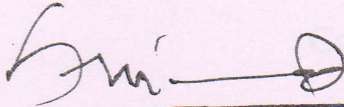
Seat No.: CHID004007

Date: 24 /04/2018


Capt. Dr. S. T. Gaikwad
(Professor and Head)
Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad


Dr. M. K. Bhande
Professor
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad
(Project Guide)


26.04.2018
External Examiner


26/04/18

**Dr. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD.**



CERTIFICATE

This is certified that the Project entitled **“Designing and synthesis of Calcium oxide and silica supported calcium oxide as heterogeneous catalyst from naturally occurring Aragonite stone and their catalytic applications”** being submitted by **Ms. Bhagyashri G. Kulkarni** for admittance to the degree of **“Master of Science in Inorganic Chemistry”** from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision for the award of M. S.c Chemistry degree.

Seat No.: -CHID004008

Date: 26 /04/2018

Dr. M. K. Lande

Professor

Head

Project Guide

Professor

Department of Chemistry

Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Capt. Dr. S. T. Gaikwad

Professor and Head

Professor & Head

Department of Chemistry

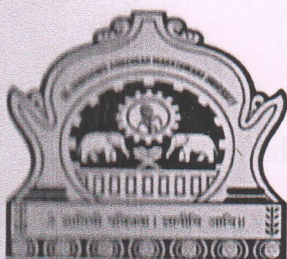
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Dr. D. V. Aware
External Examiner

Dr. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD

April, 2018

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad (MS)-431 004**



Department of Chemistry

Phone: +91-240-2403311,

Fax: +91-240-2400291;

CERTIFICATE

This is to certify that MISS.PRAJAKTA SHANKARRAO MATADE has carried out the work embodied in this thesis entitled, "SYNTHESIS AND CHARACTERISATION OF SCHIFF BASE FROM ETHYLENE DIAMINE WITH SALICYLALDEHYDE AND THEIR APPLICATION" submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for the award of the degree of Master of Science, in the subject of Inorganic Chemistry was carried out by her under my supervision in the Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University Aurangabad (MS). This work was not previously submitted by her to this or any other University for the award of any Degree, Diploma, Associate ship.

Project Guide

26/04/2018
Examiner

**Head Professor & Head
Department of Chemistry
Babasaheb Ambedkar Marathwada University
Aurangabad**

26/04/18

**Dr. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD.**




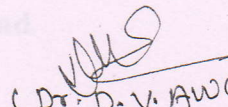
CERTIFICATE

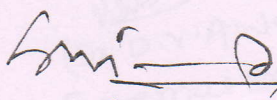
This is certified that the Project entitled **“Designing and synthesis of Calcium oxide and silica supported calcium oxide as heterogeneous catalyst from naturally occurring Aragonite stone and their catalytic applications”** being submitted by **Ms. Mohini A. Magar** for admittance to the degree of **“Master of Science in Inorganic Chemistry”** from **Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India**. Entire research work has been carried out under my guidance and supervision for the award of **M. S.c Chemistry degree**.

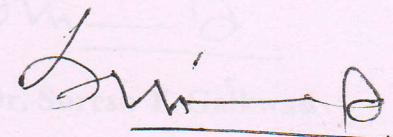
Seat No.:- CHID004010

Date: 26 /04/2018


Dr. M. K. Lande
Professor
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad
Project Guide


(Dr. D. V. Aware)
Examiners.


26/04/18
2


Capt. Dr. S. T. Gaikwad
Professor and Head
Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Dr. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD



CERTIFICATE
CERTIFICATE

This is certified that the Project entitled being "SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL ACTIVITY OF SCHIFF BASE COMPLEXES" submitted by Mr. Vishal N. Kulkarni for admittance to the degree of "Master of Science in inorganic Chemistry" from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision.

Seat No.:-

Date: 27/04/2018

Capt. Dr. Suresh. T. Gaikwad

(Professor and Head)

Dept. Of Chemistry,

Dr. BAMU, Aurangabad

Capt. Dr. Suresh T. Gaikwad

(Project Guide)

(Dr. D.V. Awar) External Examiner

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.



CERTIFICATE

This is to certify that Project entitled as Synthesis and characterization of Activated carbon from agricultural waste

Submitted by *Ms. Shep Sumedha bhaskar* class **M.Sc. Part-II (Inorganic Chemistry)** has satisfactorily completed the short term project report in M. Sc. Inorganic Chemistry degree of Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

Year: - 2017-18

Roll No: -15

Exam Seat No: -**CHID004015**

Dr. M.K.Lande
Project Guide

27-04-2018
Examiner

Prof. Capt. Dr. S.T. Gaikwad
Head of Department
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

CERTIFICATE

**Dr. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD.**



CERTIFICATE

This is certified that the Project entitled "Synthesis And characterization of Oxalate and Phthalate Complexes." being submitted by Miss. Rokade Lakshmi Dharmaraj for admittance to the degree of "Master of Science in Inorganic Chemistry" from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision.

Seat No.: CHID004014

Date: 26/04/2018

[Handwritten signature]

Capt. Dr. S. T. Gaikwad
(Professor and Head)

Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad

[Handwritten signature]
27-04-2018

Examinar
(Dr. D.V. AWAR)

[Handwritten signature]
26/04/18

[Handwritten signature]

Dr. S.T. Gaikwad
(Project Guide)
Professor

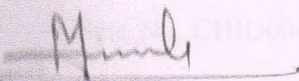
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

CERTIFICATE

This is certified that the Project entitled Preparation, Characterization And Application Of Activated Carbon From Agricultural Waste Biomass being submitted by **Ms. Kanchan K. Rathod** for admittance to the degree of "Master of Science in Inorganic Chemistry" from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision for the award of M. S.c Chemistry degree

Seat No.:-CHID004O13

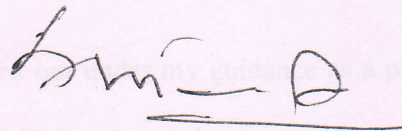
Date: 23 /04/2018



Dr. M. K. Lande

Professor


Project Professor
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

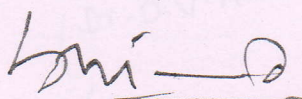


Capt. Dr. S. T. Gaikwad

Professor and Head

Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad


(Dr. D. V. Awar)



26/04/18

Professor Department of Chemistry
Babasaheb Ambedkar Marathwada University Aurangabad (MS)
April 2017-2018
DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,

AURANGABAD.

DEPARTMENT OF CHEMISTRY



CERTIFICATE

This is to certify that project report entitled "Application of Fly as a catalyst in the estrification reactions" submitted by **Miss. Meher Ravina Bhimrao**,

Seat No. CHID004012 is a record of bonafide work carried out under my guidance as a partial fulfillment for the Degree of Master of Science (Chemistry) during the academic year 2017-18.

Date :- 26/8/18

Place :- Aurangabad

(Dr. S. T. Gaikwad)

Professor & Head
Department of Chemistry

Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

(Dr. M. K. Lande)

Project Guide

22/10/18
Examiner
(Dr. D. V. Awale)

PROFESSOR Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University Aurangabad (MS)

April 2017-2018

Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad



Department of Chemistry

CERTIFICATE

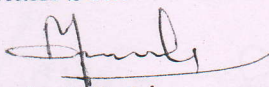
This is to certify that Project entitled as "By using green approach; Application of Fly ash used as catalyst in esterification reaction"

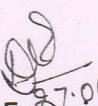
Submitted by *Miss TRIBHUWAN DIKSHA SANJAY* of class M.Sc. Part-II (Inorganic Chemistry) has satisfactorily completed the short term project report in M. Sc. Inorganic Chemistry degree of university of Aurangabad.

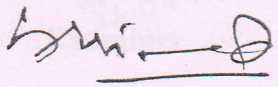
Year 2017-18

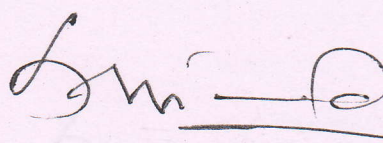
Roll No:-16

Exam Seat No:CHID004016


Project Guide


27.04.2018
Examiner
(Dr. D. V. Aware)


28/04/18


Head of Department
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

029

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.



CERTIFICATE

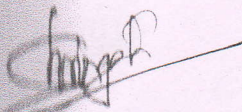
This is to certify that Project entitled **Synthesis of Isoniazid and 4-methylbenzenesulfonahydrazide conjugates dihydropyridine in β -CD/H₂O**

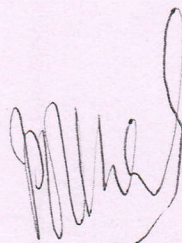
Submitted by *Mr. Khupse Sachin Sambhajirao* of class M.Sc. **Part-II (Organic Chemistry)** has satisfactorily completed the short term project report in M. Sc. Organic Chemistry degree of Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

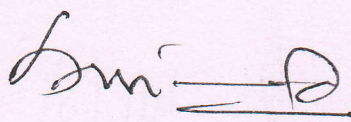
Year - 2017-18

Roll No: - 16

Exam Seat No: - CHOD004016


Dr. H. B. Shingate
Project Guide


Examiner


Prof. Capt. Dr. S. T. Gaikwad
Head of Department
Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

DEPARTMENT OF CHEMISTRY



CERTIFICATE

This is to certify that project report entitled “**Highly Efficient Synthesis of Novel 2-Furyl Substituted 1,2,3-Triazolyl Hydrazones**” submitted by Miss. Jagtap Sujita Divakar, Seat No. CH00004012

is a record of bonafide work carried out under my guidance as a partial fulfillment for the Degree of Master of Science (Organic Chemistry) during the academic year 2017-18.

Date :- 25/04/2018

Place :- Aurangabad

(Dr. B. T. Galkwad)

P. Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Examiner

(Dr. B. B. Shingate)

Project Guide

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004 (M. S.)

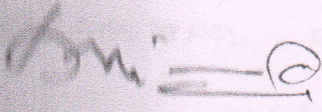
Department Of Chemistry



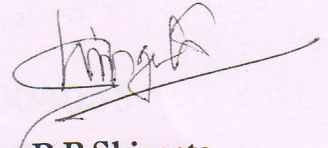
CERTIFICATE

This is to certify that *Mr. Wadghane Krishna Limbaji* Class M.Sc. Final year has satisfactory carried out the project work on "*General procedure for the one pot synthesis of highly functionalized tetrahydropyridines*" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: **CHOD004032**


Project Guide
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Dr. BAMU, Aurangabad


Examiner
27/4/18


Dr. B.B. Shingate

Department of Chemistry

Dr. BAMU, Aurangabad

**Dr. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD. (M.S.) INDIA**



CERTIFICATE

This is to certify that the Project entitled "Synthesis of bis (indolyl)methane derivatives in glycerol as a solvent and acetic acid as catalyst in ultrasonicator" being submitted by Mr. WAGHMARE PRADIP SANJAY Of Class M.Sc. final year has satisfactory carried out Carried out in laboratory as laid down in regulations of the Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India.

SEAT NO.:- CHOD004033

DATE:- 28/04/18

[Signature]
Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

[Signature]
27/4/18
Examiner

[Signature]
Dr. Bapurao B. Shingate
(Project Guide)

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004 (M. S.)

Department Of Chemistry



CERTIFICATE

This is to certify that *Mr. Wadghane Krishna Limbaji* Class M.Sc. Final year has satisfactory carried out the project work on "*General procedure for the one pot synthesis of highly functionalised tetrahydropyridines*" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: CHOD004032

[Signature]
Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

[Signature]
Examiner

27/4/18

[Signature]
Dr. B.B.Shingate

Department of Chemistry

Dr.BAMU,Aurangabad

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.**

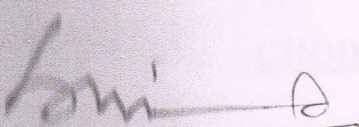


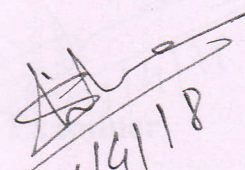
CERTIFICATE

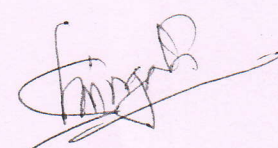
"This is certified that the Project entitled "An efficient ultrasound promoted synthesis of 2-Amino,3-cyano-4H-chromenes" being submitted by, **Mr. Mirge Ambadas Baburao** admittance to the degree of "Master of Science in Organic Chemistry" from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision.

Seat No :- CHOD004020

Date: 26/04/2018


Capt. Dr. S. T. Gaikwad
Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad


26/4/18
Examiner


Dr. Babu B. Shingate
(Assistant professor)
(Project Guide)
Dep. of chemistry

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.



CERTIFICATE

This is to certify that Project entitled **An Efficient ultrasound promoted synthesis of tetrahydrobenzo[b]pyran** Submitted by *Mr. Rokade Nitin Prakashrao* of class **M.Sc. Part-II (Organic Chemistry)** has satisfactorily completed the short term project report in M. Sc. Organic Chemistry degree of Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

Year - 2017-18

Roll No: - 24

Exam Seat No: - CHOD004024

Dr. B. B. Shingate
Project Guide


Examiner

Prof. Capt. Dr. S. T. Gaikwad
Head of Department

**Dr. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD. (M.S.) INDIA**



CERTIFICATE

This is to certify that the Project entitled "Synthesis of 4,4' (arylmethylene)bis(3-methyl-1h-pyrazol-5-ol) derivatives in glycerol as a solvent and acetic acid as catalyst in ultrasonicator" being submitted by Mr. PATHAN SHAHIDKHAN ILIYASKHAN Of Class M.Sc. final year has satisfactory carried out Carried out in laboratory as laid down in regulations of the Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India.

SEAT NO.: - CH0D004022

DATE: - 25/04/18

Dr. S. T. Gaikwad

(Head Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Examiners

21/4/18

Dr. Bapurao B. Shingate

(Project Guide)

**Dr. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD.**



CERTIFICATE

This is to certify that the Project entitled "Synthesis of Bis-coumarin derivatives by using ultrasonication in glycerol" being submitted by Mr. Salunke Yogesh Bhausaheb For admittance to the Degree of "Master of Science in Organic Chemistry" from Department of Chemistry Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision. This work has not been submitted to any University.

Seat No.: CHOD004026

Date: 25/04/18

Professor & Head
Dr. S. T. Gaikwad
Department of Chemistry
(Head of Department)
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Examiner
25/4/18

Dr. B. B. Shingate
(Project Guide)

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
AURANGABAD-431 004 (M. S.)

Department Of Chemistry



CERTIFICATE

This is to certify that **Mr. Akram Raza Abdul Kareem**

Class M.Sc. Final year has satisfactory carried out the project work on in **Synthesis of ((1-phenyl-1h-1,2,3-triazol-4-yl)methylene)indolin-2-one :**

Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No CH0D004001

Capt. Dr. Suresh T. Gaikwad

Professor and Head

Department of Chemistry

Dr. Babasaheb Ambedkar

Marathwada University,

Dr. Babasaheb Ambedkar Marathwada University
Aurangabad-431 004

EXAMINAR

Dr. B.D. Shingate

Assistant Professor

Department of Chemistry

Dr. Babasaheb Ambedkar

Marathwada University,

Aurangabad-431 004.

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad-431 004(M.S)**

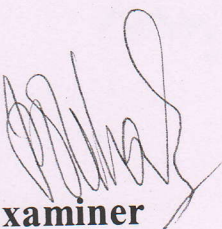
**Dr. Babasaheb Ambedkar Marathwada University
Aurangabad, 431 004 [M.S]
Department of Chemistry**

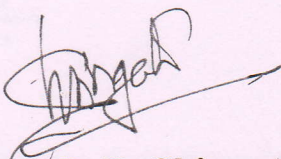


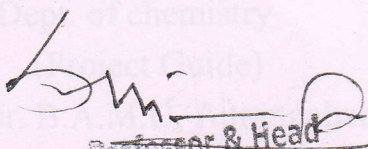
CERTIFICATE

This is to certify that **Miss Priya Apparao Bansode** class M. Sc (IVth Sem.) has satisfactory carried out the project work on “An Ultrasound Promoted Synthesis Of Novel 1,2,3-Triazole Linked 2-Amino-3-Cyano 4H-Pyran Derivatives” in laboratory as laid down in regulation of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No. -CHOD-004003


Examiner


Dr. B. B. Shingate
(Assistant Professor)
(Project Guide)
(Dept. of Chemistry)


Capt. Dr. S. T. Gaikwad
(Prof. & Head)
(Dept. of Chemistry)

**Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.**



CERTIFICATE

This is certified that the Project entitled, " β - cyclodextrin accelerated one pot synthesis of pyrazolopyranopyrimidines" being submitted by **Mr.Narendra D. Kharat** for admittance to the degree of "Master of Science in Organic Chemistry" from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision.

Seat No.: CHOD004014

Date: 26/04/2018

Capt. Dr. S. T. Gaikwad
(Professor and Head)

Dr. Bapu B. Shingate
(Assistant professor)
Dept. of chemistry
(Project Guide)

Dr. B.A.M.U, Aurangabad

Examiner

Dr. Babasaheb Ambedkar Marathwada University

Aurangabad, 431 004 [M.S]

Department of Chemistry



CERTIFICATE

This is to certify that Miss Devade Pallavi Shivaji class M.Sc (IVth Sem.) has satisfactory carried out the project work on "An Ultrasound Promoted Synthesis Of 2-Amino-3-Cyano 4H-Pyran Derivatives" in laboratory as laid down in regulation of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No. -CHOD004011

Examiner

Dr. B. B. Shingate

(Assistant Professor)

(Project Guide)

(Dept. of Chemistry)

Capt. Dr. S. T. Gaikwad

**Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad**

(Dept. of Chemistry)

Dr. BABASAHEB AMBEDAKAR MARATHWADA
UNIVERSITY

AURANGABAD ,431004 [M.S]

DEPARTMENT OF CHEMISTRY



CERTIFICATE

This is to certify that Faisal Masiyoddin Shailkh

**class M.Sc .Second year has satisfactory carried out the project work on
"An Efficient Synthesis of triazole Sulfonohydrazides conjugates" in
laboratory as laid down in of Dr. BABASAHEB AMBEDAKAMARATHWADA
UNIVERSITY, AURANGABAD.**

Exam Seat No: CH00004029

Date:

Head of Dept

Capt. Dr. S. T. Gaikewad

**Professor and head
Dept
Department of chemistry**

Department of chemistry Dr. Bamu

Examiner

Dr. Shingate Sir

Assistant professor

SEAT NO. - CH00004029

DATE - 25/04/18

Examiner

Dr. Babasaheb Shingate

(Project Guide)

**Dr. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD. (M.S.) INDIA**



CERTIFICATE

This is to certify that the Project entitled "Synthesis of 4,4' (arylmethylene)bis(3-methyl-1h-pyrazol-5-ol) derivatives in glycerol as a solvent and acetic acid as catalyst in ultrasonicator" being submitted by Mr. PATHAN SHAHIDKHAN ILIYASKHAN Of Class M.Sc. final year has satisfactory carried out Carried out in laboratory as laid down in regulations of the Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India.

SEAT NO.: - CH0D004022

DATE: - 25/04/18

Dr. S. T. Gaikwad

**Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad**

Examiner

26/4/18

Dr. Bapurao B. Shingate

(Project Guide)

Aurangabad

DEPARTMENT OF CHEMISTRY



CERTIFICATE

This is to certify that Miss : Asra Mahvash of class M.Sc . Final year has satisfactory carried out the project work on "phase transfer catalysed synthesis of 1,8-naphthyridine derivatives" in laboratory as laid down in regulation of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Exam Seat No: CHOD004002

Under guidance : Dr. Giribala M. Bondle

Department of Chemistry

Dr. S.T. Gaikwad

Professor & Head
(professor)
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Head of department
Aurangabad
Dept of chemistry

EXAMINER

Dr. Bondle G.M.

Assistant professor,

Dept of chemistry

Seat no.:

Date:

Place:

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004 (M. S.)

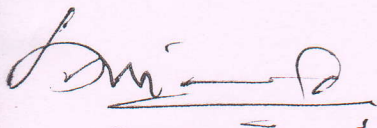
Department Of Chemistry

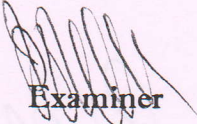


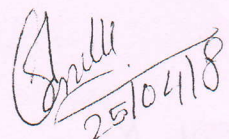
CERTIFICATE

This is to certify that *Mr. Borde Suresh Narayam* Class M.Sc. Final year has satisfactory carried out the project work on "*A green protocol for the synthesis of 1,3-thiazolidin-4-one by using PEG as a solvent and catalyst*" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: CHOD004004


Capt. Dr. Suresh B. Borde
Professor and Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad-431 004.


Examiner


25/04/18
Dr. Giribala M. Bondle
Assistant Professor
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

Dr. BABASAHEB AMBEDAKAR MARATHWADA
UNIVERSITY

AURANGABAD ,431004 [M.S]

DEPARTMENT OF CHEMISTRY



CERTIFICATE

This is to certify that Miss Chandane Tejaswini Bhimrao class M.Sc .Second year has satisfactory carried out the project work on " ...Synthesis of benzthiazolo(2,3-b)quinazolins catalyzed by...caesium carbonate" in laboratory as laid down in regulation of Dr. BABASAHEB AMBEDAKA MARATHWADA UNIVERSITY, AURANGABAD.

Exam Seat No: CHOD004006

Date:

Professor & Head
Department of Chemistry

Dr. Babasaheb Ambedkar Marathwada University
Aurangabad
Capt. Dr. S. T. Garkwad

Professor and head

Department of chemistry

Examiner

Dr. G. M. Bondle

Assistant professor

Department of chemistry

Dr Bamu

Department Of Chemistry



CERTIFICATE

This is to certify that *Mr. CHAVAN KAILAS ARJUN* Class M.Sc. Final year has satisfactory carried out the project work on "*CS₂CO₃ catalyst for the promotion of 3(4-Bromophenyl)2-ethyl-2methyl- 2,3- dihydroquanazline-4(1H)- one* in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No CH00004009

[Signature]

Capt. Dr. Suresh T. Gaikwad
Professor and Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

[Signature]
25/04/18

Dr. Giribala M. Bondle
Assistant Professor
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

[Signature]

EXAMINAR

**DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD
DEPARTMENT OF CHEMISTRY**



CERTIFICATE

This is to certify that the project report entitle "A Green Protocol for the Synthesis of Tetrahydropyrido [2, 3-d] Pyrimidine using CTAB under Ultra Sonication Method" submitted by Miss Shraddha Suresh Dandge is a record of bonafide work carried out under my guidance in partial fulfillment of the requirement for the degree of Master of Science (Chemistry) with specialization in organic chemistry during the academic year 2017-18.

Exam Seat No. CHOD004010

Date: 26/04/2018

Place: Aurangabad

Examiner

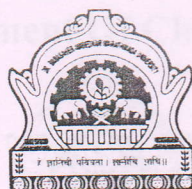
Capt. Dr. Suresh T. Gaikwad
(Head of Department)

Dr. Giribala Bondle
(Project Guide)

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004 (M. S.)

Department Of Chemistry



CERTIFICATE

This is to certify that *Miss. Supriya A. Joshi* Class M.Sc. Final year has satisfactory carried out the project work on "*An efficient synthesis of new chromeno[4,3-b]quinolones via one pot multicomponent reactions in aqueous emulsion of CTAB*" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: CHOD004013

Capt. Dr. Suresh T. Gaikwad
Professor and Head
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

Professor & Head
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.

Examiner

Dr. Giribala M. Bondle
Assistant Professor
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
AURANGABAD-431 004 (M. S.)

Department Of Chemistry



CERTIFICATE

This is to certify that *Miss. Sayali Anil Kharote* Class M.Sc. Final year has satisfactory carried out the project work on "An Efficient Synthesis of New Thiazole Derivatives" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: CH00004015

Capt. Dr. Suresh T. Gaikwad

Professor and Head
Department of Chemistry

Dr. Babasaheb Ambedkar
Marathwada University,

Aurangabad-431 004.

Professor & Head
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.

Examiner

Dr. Giribala M. Bondle
Assistant Professor

Department of Chemistry

Dr. Babasaheb Ambedkar
Marathwada University,

Aurangabad-431 004.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
AURANGABAD-431 004 (M. S.)

Department Of Chemistry



CERTIFICATE

This is to certify that *Miss. Sayali Anil Kharote* Class M.Sc. Final year has satisfactory
carried out the project work on "An Efficient Synthesis of New Thiazole Derivatives" in
Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad.

Exam Seat No: CH00004015

Capt. Dr. Suresh T. Gaikwad

Professor and Head
Department of Chemistry

Dr. Babasaheb Ambedkar
Marathwada University,

Aurangabad-431 004.

Professor & Head
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.

Examiner

Dr. Giribala M. Bondle
Assistant Professor

Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004 (M. S.)

Department Of Chemistry



CERTIFICATE

This is to certify that *Miss. Aishwarya C. Lokhande* Class M.Sc. Final year has satisfactory carried out the project work on "*Convenient synthesis of polyfunctional dihydrothiophene ureidoformamides with tandem reaction in aqueous β -cyclodextrin*" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: CHOD0040157

Capt. Dr. Suresh P. Gaikwad
Professor and Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

Examiner

Dr. Giribala M. Bondle
Assistant Professor
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004 (M. S.)

Department Of Chemistry



CERTIFICATE

This is to certify that *Miss. Diksha S. Mhaske* Class M.Sc. Final year has satisfactory carried out the project work on " *β -Cyclodextrin in water: highly facile biomimetic catalysis for one pot synthesis of dihydrophthalazinedione derivatives*" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: CHOD004019

Capt. Dr. Suresh T. Gaikwad
Professor and Head

Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

27/6/18
Examiner

Dr. Giribala M. Bondle
Assistant Professor
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004 (M. S.)

Department Of Chemistry



CERTIFICATE

This is to certify that *Miss. Amruta G. Palke* Class M.Sc. Final year has satisfactory carried out the project work on "*DIPEAc catalysed one-pot three-component synthesis of densely functionalized pyrido[2,3-d]pyrimidines* " in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: CHOD004021

Capt. Dr. Suresh T. Gaikwad

Professor and Head

Department of Chemistry

Dr. Babasaheb Ambedkar

Marathwada University,

Aurangabad-431 004.

Professor & Head

Dept. of Chemistry

Dr. Babasaheb Ambedkar

Marathwada University,

Aurangabad-431004.

Dr. Giribala M. Bondle

Assistant Professor

Department of Chemistry

Dr. Babasaheb Ambedkar

Marathwada University,

Aurangabad-431 004.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004 (M. S.)

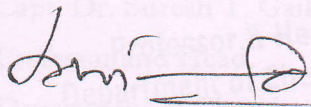
Department Of Chemistry

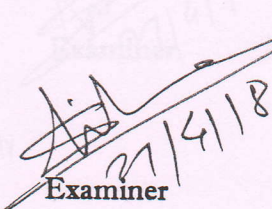


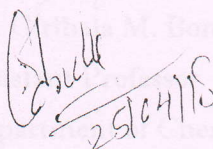
CERTIFICATE

This is to certify that *Miss Redlawar Ankita Arun* Class M.Sc. Final year has satisfactory carried out the project work on "*-Cyclodextrin catalyzed one-pot synthesis of bio-active pyrazohyl coumarins compounds in water media*" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: CHOD004023


Professor & Head
Capt. Dr. Suresh T. Gaikwad
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.


Examiner
27/4/18


Dr. Giribala M. Bondle
Assistant Professor
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004 (M. S.)

Department Of Chemistry



CERTIFICATE

This is to certify that *Miss. Rudrawar Priyanka Pravin* Class M.Sc. Final year has satisfactory carried out the project work on "*Taurine (2-aminoethanesulfonic acid) as a green bio-organic catalyst for the promotion of spirooxindol-quinazolinone and novel 2,3-dihydroquinazolin-4(1H)-ones under green medium*" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: CHOD004025

Capt. Dr. Suresh T. Gaikwad
Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad
Marathwada University,
Aurangabad-431 004.

27/4/18
Examiner

Dr. Giribala M. Bondle
Assistant Professor
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004 (M. S.)

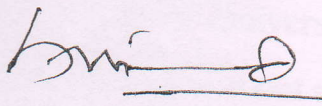
Department Of Chemistry

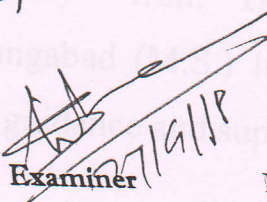



CERTIFICATE

This is to certify that *Miss. Sarwade Veda Govindrao* Class M.Sc. Final year has satisfactory carried out the project work on " *β -Cyclodextrin in water. As an efficient green protocol for the synthesis of novel (E)-2 amino-N-(2 benzylidenehydrazinecarbonothioyl)benzamide derivatives*" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: CHOD 004027


Professor & Head
Department of Chemistry
Babasaheb Ambedkar Marathwada University
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.


Examiner


Dr. Giribala M. Bondle
Assistant Professor
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

**Dr. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD.**



CERTIFICATE

This is certified that the Project entitled “ Base Catalysed synthesis of Arylidine Derivatives By Knoevengel Condensation using Sodium Hydroxide as Catalyst ” being submitted by Mr. ~~Shantanu~~ **Abdu Shahbeen** for admittance to the degree of “Master of Science in Organic Chemistry” from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) India. Entire research work has been carried out under my guidance and supervision.

CHOD004028

25/04/2018

Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Dr. G. M. Bondle
Assistant professor
Dept. of Chemistry
Dr. B. A. M. Uni.
Aurangabad.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY
AURANGABAD-431 004 (M. S.)

Department Of Chemistry



CERTIFICATE

This is to certify that *Mr. Shaikh Badroddin Ayyub* Class M.Sc. Final year has satisfactory carried out the project work on "*One-pot multicomponent synthesis of highly functionalized bio-active benzylpyrazolyl coumarin and novel isonicotinohydrazide pyrano[2,3-c]pyrazole derivatives using Taurine as a green bio-organic catalyst*" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Exam Seat No: CHOD004030

Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Department of Chemistry
Aurangabad
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

27/9/18
Examiner
25/04/18

Dr. Giribala M. Bondle
Assistant Professor
Department of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431 004.

Aurangabad
Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD-431 004 (M. S.)

Department Of Chemistry



CERTIFICATE

This is to certify that *Mr. Tagad Pramod Ashok* Class M.Sc. Final year has satisfactory carried out the project work on "*L-Proline catalyzed expeditious multicomponent protocol for the synthesis of novel functionalized tetrahydrodibenzo[6,g][1,8]naphthyridinone derivatives*" in Laboratory as laid down in regulations of the Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Capt. Dr. Suresh T. Gaikwad

Head Of Dept Chemistry
Professor & Head
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.

27/11/18
Examiner:

Exam Seat No: CHOD004031

25/11/18
Dr. Giribala M. Bondle

Department of Chemistry

Dr. Babasaheb Ambedkar

Marathwada University,

Aurangabad-431 004.

phy

**DR. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY AURANGABAD, 431004.**

Department of Chemistry,



CERTIFICATE

This is to certify that the work embodied in the thesis entitled, "Electrochemical synthesis of alumina nanocluster their characterization and application".

This present work was carried out by Miss. Pratiksha Dattatraya Tanwade which is a part of M.Sc. (Physical Chemistry) dept. of Chemistry Dr B. A. M. U. Aurangabad, project under my supervision.

YEAR-2017/18

Exam seat no.- CHPD004014

A/Rajbhoy
25-04-2018
(Dr. A. S. Rajbhoy)

Project Guide

[Signature]
Examiner
25/4/18

[Signature]

Head Of Dept.

Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

CERTIFICATION

This is to certify that, **Mr. AMITKUMAR RAMAKANT GIRBIDE**, has successfully completed the dissertation projected "**DESIGN AND SYNTHESIS OF ANTENNA DYES (HEMICYANINE DYES) FOR DYE-SENSITIZED SOLAR CELLS**" which is an original work carried out by the candidate for dissertation project in Chemistry Department, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad under my supervision. It is work done by the student (M.Sc. II year, IV Semester) and has not been submitted/ published anywhere in the form of dissertation.

Year :-

Exam Seat No :- **CHP1D004006**

AR
25.04.2018
(Dr. Anjali. S. Rajbhoj)
Professor & Research Guide

[Signature]
26/04/18

[Signature]

Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Department of Chemistry

CERTIFICATE



This is to certify that Project entitled as "Synthesis, Characterization of Nickel Oxide nanoparticles by Chemical Method and their cyclic voltammetric study" Submitted by Miss. Mayawati Bhawan Gaikwad of class M.Sc. Part-II (Physical Chemistry) has satisfactorily completed the short term project report in M. Sc. Physical Chemistry degree of university of Aurangabad.

April-2018

Roll No:-05

Exam Seat No: CHPD004005

Project Guide Examiner

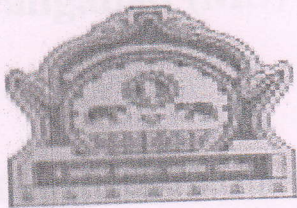
[Handwritten signature]
26/04/18

[Handwritten signature]

Head of Department

Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004(M.S), INDIA



DEPARTMENT OF CHEMISTRY

PHONE:+91-240-2403311,

FAX:+91-240-2400291;

CERTIFICATE

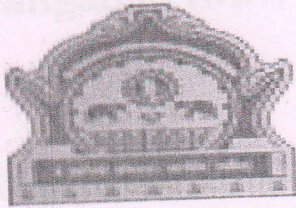
This is to certify that Miss. Syeda Addila Syed Maozzam Ali student of Department of Chemistry has successfully completed the project entitled, "Annona Squamosa Leaf extract as Green corrosion inhibitor for zinc plate" which is an original work carried out by her as M.Sc research project in laboratory of Physical Chemistry, Department of chemistry, Dr. BAMU Aurangabad.

A.P. B. B.
Project Guide
25.04.2018

S. M. S.
Examiner
27/4/18

S. M. S.
Head, Dept. of Chemistry
Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004(M.S), INDIA



DEPARTMENT OF CHEMISTRY

PHONE:+91-240-2403311,

FAX:+91-240-2400291;

CERTIFICATE

This is to certify that Miss. Syeda Addila Syed Maozzam Ali student of Department of Chemistry has successfully completed the project entitled, "Annona Squamosa Leaf extract as green corrosion inhibitor for zinc plate" which is an original work carried out by her as M.Sc research project in laboratory of Physical Chemistry, Department of chemistry, Dr. BAMU Aurangabad.

A.P. B. B.
Project Guide

25.04.2018

S. Maozzam
Examiner

27/11/18

S. M. A.
Head, Dept. of Chemistry

Professor & Head

Department of Chemistry

Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

**Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad (MS)-431 004**



Department of Chemistry

Phone: +91-240-2403311,

Fax: +91-240-2400291;

CERTIFICATE

This is to certify that Miss. Deepali Ramkrishna Surase has carried out the work embodied in this thesis entitled, "SYNTHESIS, CHARACTERISATION AND ANTIOXIDENT STUDY OF COBALT OXIDE NANOPARTICLES BY GREEN METHOD" submitted to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for the award of the degree of Master of Science, in the subject of Physical Chemistry was carried out by her under my supervision in the Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University Aurangabad (MS). This work was not previously submitted by her to this or any other University for the award of any Degree, Diploma, Associate ship.

AR
Project Guide
25-04-2018

Deepali Ramkrishna Surase
Examiner
20/4/18

[Signature]
Head of Dept.

Dept. of Chemistry
Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.



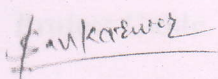
CERTIFICATE

This is to certify that Project entitled as "CATALYTIC & STRUCTURAL STUDIES OF SOME HETEROPOLY ACIDS" Submitted by **Mr. Umesh S. Ahile** of class **M.Sc. Part-II (Physical Chemistry)** has satisfactorily completed the short term project report in M. Sc. Physical Chemistry degree of Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

Year: - 2017-18

Roll No: -01

Exam Seat No: - CHPD004001


Dr. S. G. Shankarwar

Project Guide


Examiner
26.4


Capt. Dr. S. T. Gaikwad

Head of Department
Professor & head
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.

Dr. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, AURANGABAD.



CERTIFICATE

This is to certify that Project entitled as "*K-10 supported 12 Molybdophosphoric acid catalysts for synthesis of bis (in doly) methanes*" Submitted by *Miss. Shubhangi B. Barve* of class **M.Sc. Part-II (Physical Chemistry)** has satisfactorily completed the short term project report in M. Sc. Physical Chemistry degree of Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

Year: - 2017-18

Roll No: - 03

Exam Seat No: - CHPD00 4003

Dr. S. G. Shankarwar
Project Guide

Examiner
26.6.18

Dr. S. T. Gaikwad
Head of Department
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.



CERTIFICATE

This is to certify that Project entitled as "*12-Molybdophosphoric acid supported on K-10 clay as an efficient catalyst for Synthesis of chromeno[2,3-d]pyrimidine*" Submitted by *Miss. Rashmi S. Deshpande* of class M.Sc. Part-II (Physical Chemistry) has satisfactorily completed the short term project report in M. Sc. Physical Chemistry degree of Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

Year: - 2017-18

Roll No: -04

Exam Seat No: - CHPD004004

Dr. S. G. Shankarwar

Project Guide

26/11/18

Examiner

Dr. S. T. Gaikwad

Head of Department
Professor & Head
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Department of Chemistry

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.



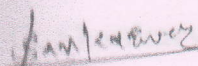
CERTIFICATE

This is to certify that Project entitled as "*12-Molybdophosphoric acid supported on K-10 clay as an efficient catalyst for Synthesis of Pyrano[2,3-d]pyrimidinone derivatives*" Submitted by Mr. Mahendra M. Ingole of class M.Sc. Part-II (Physical Chemistry) has satisfactorily completed the short term project report in M. Sc. Physical Chemistry degree of Dr Babasaheb Ambedkar Marathwada University Aurangabad.

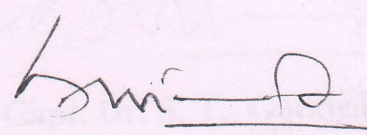
Year: - 2017-18

Roll No: -07

Exam Seat No: - CHPD004007


Dr. S. G. Shankarwar
Project Guide


Examiner


Dr. S. T. Gaikwad
Head of Department

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

Department of Chemistry

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.



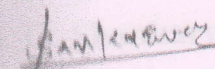
CERTIFICATE

This is to certify that Project entitled as "*12-Molybdophosphoric acid supported on K-10 clay as an efficient catalyst for Synthesis of Pyranol[2,3-d]pyrimidinone derivatives*" Submitted by Mr. Mahendra M. Ingole of class M.Sc. Part-II (Physical Chemistry) has satisfactorily completed the short term project report in M. Sc. Physical Chemistry degree of Dr Babasaheb Ambedkar Marathwada University Aurangabad.

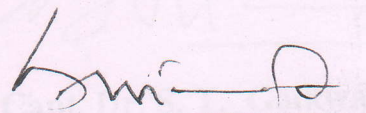
Year: 2017-18

Roll No: -07

Exam Seat No: - CHPD004007


Dr. B. G. Shankarwar
Project Guide


Examiner
26/4/18


Dr. S. T. Gaikwad
Head of Department

Dr. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,
AURANGABAD.



CERTIFICATE

This is to certify that Project entitled as "Tungstophoshoric acid supported on Silica: An efficient catalyst fo synthesis of of pyrazolopyranopyrimidines" Submitted by *Miss Supriya D.Mane* of class **M.Sc. Part-II (Physical Chemistry)** has satisfactorily completed the short term project report in M. Sc. Physical Chemistry degree of Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

Year: - 2017-18

Roll No: - 09

Exam Seat No: -CHPD004009


Dr. S. G. Shankarwar

Project Guide


Examiner


Capt. Dr. S. T. Gaikwad

Head of Department
Professor & Head
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.

Department of Chemistry



CERTIFICATE

This is to certify that Project entitled as “**Facile Synthesis of Activated Carbon from Bio-waste towards Nitrite Oxidation**” Submitted by *Mr. Pote Sandip Bhanudas* class of **M.Sc. Part-II (Physical chemistry)** has satisfactorily completed the short term project report in M. Sc. Analytical Chemistry degree of university of Aurangabad.

Year- 2017-2018

Roll No: - 10

Exam Seat No: CHPD004010

Dr. Bhaskar R. Sathe

(Project Guide)

Assistant Professor

Dept. of Chemistry,

Dr. BAMU, Aurangabad

Examiner

Professor & Head

Dept. of Chemistry

Dr. Babasaheb Ambedkar Marathwada University

(Professor & Head)

Dept. of Chemistry,

Dr. BAMU, Aurangabad.

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (2017-2018)

Department of Chemistry



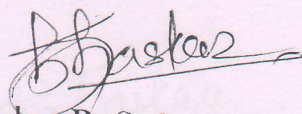
CERTIFICATE

This is to certify that Project entitled as "SYNTHESIS of $g\text{-C}_3\text{N}_4$ and Mn Doping With $g\text{-C}_3\text{N}_4$ Catalyst for CO_2 Reduction Reactions" submitted by Ms. Ashwini Tukaram Avhale of class M.Sc. Part-II (Physical Chemistry) has satisfactorily completed the short term project report for M. Sc. in specialization of Physical Chemistry degree of university of Aurangabad.

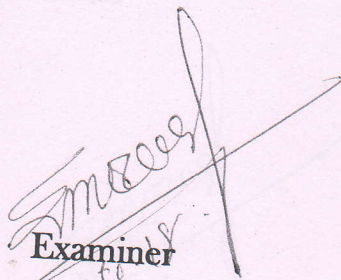
Year- 2017-2018

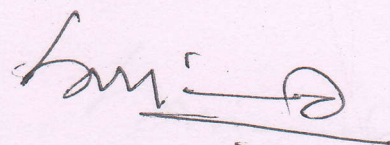
Roll No:-02

Exam Seat No: CHPD004002


Dr. Bhaskar R. Sathe

Project Guide


Examiner
26/11/18


Dr. S. T. Gaikwad
Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (2017-2018)

Department of Chemistry



CERTIFICATE

This is to certify that Project entitled as “SYNTHESIS of $g\text{-C}_3\text{N}_4$ and Mn Doping With $g\text{-C}_3\text{N}_4$ Catalyst for CO_2 Reduction Reactions” submitted by Ms. Ashwini Tukaram Avhale of class M.Sc. Part-II (Physical Chemistry) has satisfactorily completed the short term project report for M. Sc. in specialization of Physical Chemistry degree of university of Aurangabad.

Year- 2017-2018

Roll No:-02

Exam Seat No: CHPD004002

Dr. Bhaskar R. Sathe

Project Guide

Examiner

Dr. S. T. Gaikwad

Professor & Head
Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (2017-2018)

Department of Chemistry



CERTIFICATE

This is to certify that Project entitled as "**Synthesis & characterization of metal oxide nanoparticles and its applications**"

Submitted by *Miss. Rajnandini Chandrakant Mahamuni* of class *M.Sc. Part-II (Physical Chemistry)* has satisfactorily completed the short term project report in *M.Sc. Physical Chemistry* degree of university of Aurangabad.

Year- 2017-2018

Roll No:-08

Exam Seat No: CHPD004008

Dr. Bhaskar R. Sathe

Project Guide

Dr. S.T. Gaikwad

Head of Department Examiner
Professor & Head
Dept. of Chemistry
Dr. Babasaheb Ambedkar
Marathwada University,
Aurangabad-431004.

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (2017-2018)

Department of Chemistry



CERTIFICATE

This is to certify that Project entitled as "SYNTHESIS AND CHARACTERISATION OF COBALT OXIDE NANOPARTICLES BY CHEMICAL METHOD" Submitted by Miss. Lila Sahebrao Sable of class **M.Sc. Part-II (Physical Chemistry)** has satisfactorily completed the short term project report in M. Sc. Physical Chemistry degree of university of Aurangabad.

Year- 2017-2018

Roll No:-11

Exam Seat No: _____

Dr. Bhaskar R. Sathe

Project Guide

Examiner

Dr. S. T. Gaikwad

Head of Department

CERTIFICATE

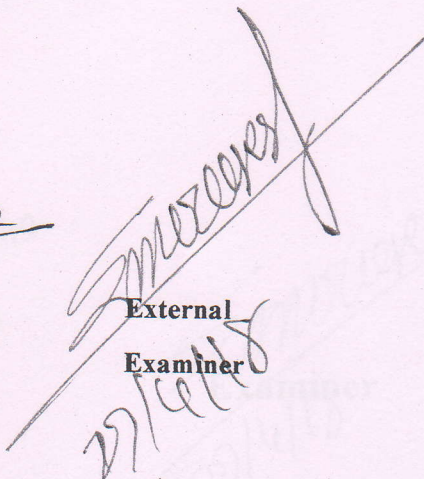
This is to certify that, The Project entitled as "**Synthesis and Characterization of Graphene Oxide and its Hybrid Materials for Electrochemical Studies**"
Being Submitted by Miss Usare Jyoti Jadusing for admittance to the degree of M.Sc. has satisfactorily completed the short term project report in M.Sc. Physical Chemistry part-II degree of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

Year : 2017 -2018

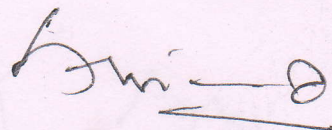
Exam Seat No:- CHPD004015



Dr. Bhaskar R. Sathe
Project Guide



External
Examiner



Prof.S. T. Gaikwad
Head of Department