



A
PROJECT REPORT
ON

**"DESIGN AND SYNTHESIS OF NOVEL 1,3,4-OXIDIAZOLE AND
PYRAZOLE ANALOGUES"**



Submitted by:

Mr. KADAM MAYUR ARUN

M.Sc. (Organic Chemistry)

Department Of Chemistry

S, S, G, M, College, Kopergaon.

Submitted to:

Department Of Chemistry

S, S, G, M, College, Kopergaon.

Under the guidance of:

Dr. J. M. GAJBHIYE

(Scientist)

Division of Organic Chemistry

CSIR-NATIONAL CHEMICAL LABORATORY

(2018-2019)

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Principal
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CERTIFICATE

This is to certify that the work incorporated in this project entitled "**DESIGN AND SYNTHESIS OF NOVEL 1, 3, 4-OXIDIAZOLE AND PYRAZOLE ANALOGUES**" being submitted to Department of Chemistry, S.S.G.M. College, Kopargaon, Affiliated to Savitribai Phule Pune University, Pune by Mr. Kadam Mayur Arun was carried out under my supervision at the National Chemical Laboratory from 15th May-31st- December 2018.

Dr. J. M. Gajbhiye

वैज्ञानिक / Scientist
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AND SANJIVANI COMMERCE COLLEGE, KOPARGAON, DIST-AHMEDNAGAR

CERTIFICATE



This is certify that the project report entitled "*DESIGN AND SYNTHESIS OF NOVEL 1, 3, 4-OXIDIAZOLE AND PYRAZOLE ANALOGUES*" being submitted by Mr. Kadam Mayur Arun is a bonafied record of work done by him at Organic Chemistry Division, CSIR-National Chemical Laboratory, Pune under guidance of Dr. J. M. Gajbhiye, during the period 15th May-31st December 2018 in partial fulfillment for the degree of *MASTER OF SCIENCE* in Organic Chemistry.


Dr. A .B. Nikumbh
Head
(Department of Chemistry)
S, S, G, M, College
Kopergaon 423601, Maharashtra.


Examiner
20-6-2019


Principal
S, S, G, M, College
Kopergaon 423601,
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Principal
S.S.G.M.College
Kopergaon



A



PROJECT REPORT

**"SYNTHESIS AND CHARACTERIZATION OF PIPERAZINE
CONTAINING 1, 3, 4-OXIDIAZOLES AND ITS DERIVATIVES"**



Submitted by:

Mr. Krushikesh Dattatray Dhoke.

M.Sc. (Organic Chemistry)

Department of Chemistry

S.S.G.M. College, Kopargaon.

Submitted to:

Department Of Chemistry

S.S.G.M. College, Kopargaon.

Under the guidance of:

Dr. J. M. Gajbhiye.

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Division of Organic Chemistry

CSIR-NATIONAL CHEMICAL LABORATORY

(2018-19)


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(बैज्ञानिक तथा प्रयोगशाला, कोपर्गाव, पुणे)

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CSIR - NATIONAL CHEMICAL LABORATORY

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Dr. Homi Bhabha Road, Pune - 411 008, India



CERTIFICATE

This is to certify that the work incorporated in this project entitled "**SYNTHESIS AND CHARACTERIZATION OF PIPERAZINE CONTAINING 1,3,4-OXIDIAZOLES AND ITS DERIVATIVES**" being submitted to Department of Chemistry, S.S.G.M. College, Kopergaon, affiliated to Savitribai Phule Pune University, Pune by Mr. Dhoke Krushikesh Dattatray was carried out under my supervision at the National Chemical Laboratory from 15th May-31st- December 2018.

Dr. J. M. Gajbhiye.

वैज्ञानिक / Scientist
कार्बनिक रसायन विभाग
Division of Organic Chemistry,
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Dr. J. M. Gajbhiye's

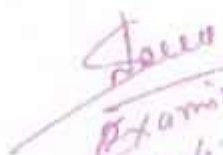
SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAUTAM ARTS
AND SANJIVANI COMMERCE COLLEGE, KOPARGAON, DIST-AHMEDNAGAR.


CERTIFICATE



This is to certify that the project report entitled "*SYNTHESIS AND CHARACTERIZATION OF PIPERAZINE CONTAINING 1,3,4-OXADIAZOLES AND ITS DERIVATIVES*" being submitted by Mr. Dhoke Krushikesh Dattatray is a bonafied record of work done by him at Organic Chemistry Division, CSIR-National Chemical Laboratory, Pune under guidance of Dr. J. M. Gajbhiye, during the period 15th May-31st December 2018 in partial fulfillment for the degree of *MASTER OF SCIENCE* in organic chemistry.


Dr. A. B. Nikumbh
Head
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Examiner
20-6-2019


Principal
S. S. G. M. College
Kopergaon 423601,
Maharashtra.


Principal
S.S.G.M.College
Kopergaon

A
Project report
On
**“Synthesis of Silver nanoparticles using chemical reduction
method from selective plant extract”**

M.Sc. Project carried out as part of curriculum for degree of
“Master of Science”
in
Organic Chemistry
At
S. S. G. M. College, Kopargaon.

Submitted By

MISS. DIGHE SHUBHANGI ARJUN

M.Sc. II (Organic Chemistry)

2021-2022

Guided By

Prof. (Dr.) Chavhan N. M.

Submitted To



P.G. and Research,
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S.S.G.M. College, Kopargaon [423601]
Dist- Ahmednagar [MS] India


Principal
S.S.G.M. College
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SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAUTAM ARTS
AND SANJIVANI COMMERCE COLLEGE, KOPARGAON. DIST-AHMEDNAGAR

CERTIFICATE



This is to certify that the work incorporated in this project report entitled **“Synthesis of Silver nanoparticles using chemical reduction method from selective plant extract”** being submitted to the Head, Department of Chemistry, S. S. G. M. College, Kopargaon and Savitribai Phule Pune university, Pune by Miss. **DIGHE SHUBHANGI ARJUN** was carried out by her under my supervision at S. S. G. M. College, Kopargaon. Dist- Ahmednagar. Material obtained from other source has duly acknowledged in this project report.

Date: 18/05/2022.

Dr. N. M. Chavhan
Project Guide,
Department of Chemistry,
S. S. G. M. College, Kopargaon

Examined
S. S. G. M. College
25/05/22

Mr. A. K. Deshmukh
Head, P. G. and Research
Department of Chemistry,
S. S. G. M. College, Kopargaon

Principal
S.S.G.M.College
Kopargaon

A

Project report

On

“ Synthesis and Spectral analysis of some new pyrazole carboxylic acid derivatives”

M.Sc. Project carried out as part of curriculum for degree of
“Master of Science”

in

Organic Chemistry

at

S. S. G. M. College, Kopargaon.

Submitted By

MISS. DHAGE YOGESHWARI RAJENDRA

M.Sc. II (Organic Chemistry)

2021-2022

Guided By

Prof. (Dr.) Chavhan N. M.

Submitted To



P.G. and Research,
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Principal
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SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAUTAM ARTS
AND SANJIVANI COMMERCE COLLEGE, KOPARGAON. DIST-AHMEDNAGAR

CERTIFICATE



This is to certify that the work incorporated in this project report entitled **“Synthesis and spectral analysis of some new pyrazole carboxylic acid derivatives”** being submitted to the Head, Department of Chemistry, S. S. G. M. College, Kopargaon and Savitribai Phule Pune university, Pune by Miss. Dhage Yogeshwari Rajendra was carried out by her under my supervision at S. S. G. M. College, Kopargaon. Dist- Ahmednagar. Material obtained from other source has duly acknowledged in this project report.

Date: 18/05/2022.

Dr. N. M. Chavhan
Project Guide,
Department of Chemistry,
S. S. G. M. College, Kopargaon



Examined
Dhage
25/05/22

Mr. A. K. Deshmukh
Head, P. G. and Research
Department of Chemistry,
S. S. G. M. College, Kopargaon

Principal
S.S.G.M.College
Kopargaon

A

Project Report

On

“A PRACTICAL AND GREEN PROTOCOL FOR SYNTHESIS OF 2, 3-DIHYDROQUINAZOLIN-4(1H)-ONES USING IONIC LIQUID VIA ANTHRANILAMIDE”

M.Sc. Project carried out as a part of curriculum for Degree of “Master of Science” in Organic Chemistry at S.S.G.M. College, Kopargaon

Submitted By

Miss. PATIL MAYURI ANANDA

M.Sc. II (Organic Chemistry)

Guided By

Dr. D. M. Suryawanshi

(M.Sc., Ph.D. NET)

Submitted To



P.G. & Research Department of Chemistry,

S.S.G.M. College, Kopargaon,

Dist.-Ahmednagar [MS], India-423601

(Academic Year: 2021-2022)


Rayat Shikshan Sanstha's
SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAUTAM ARTS
AND SANJIVANI COMMERCE COLLEGE, KOPARGAON, DIST-AHMEDNAGAR.

CERTIFICATE



This to certify that the work incorporated in this project report entitled "A PRACTICAL AND GREEN PROTOCOL FOR SYNTHESIS OF 2,3-DIHYDROQUINAZOLIN-4(1H)-ONES USING IONIC LIQUID VIA ANTHRANILAMIDE" being submitted to the Head, Department of Chemistry S.S.G.M. College Kopargaon affiliated to Savitribai Phule Pune University, Pune by **Miss. PATIL MAYURI ANANDA** was carried out by his under my supervision. Information obtained from other source has duly acknowledged in this project report.

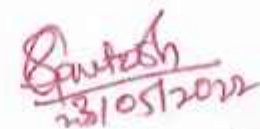
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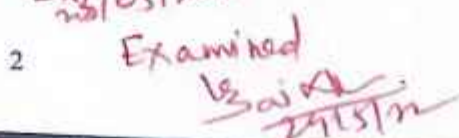

Dr. D. M. Suryawanshi
Project Guide,
Department of Chemistry




Prof. A. K. Deshmukh
Head & Vice-Principal
Department of Chemistry

Examined


23/05/2022

2 Examined

23/05/2022


Principal
S.S.G.M. College
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A

Project Report

On

“A PRACTICAL AND GREEN PROTOCOL FOR SYNTHESIS OF 2, 3-DIHYDROQUINAZOLIN-4(1H)-ONES USING IONIC LIQUID VIA ISATOIC ANHYDRIDE”

M.Sc. Project carried out as a part of curriculum for Degree of “Master of Science” in Organic Chemistry at S.S.G.M. College, Kopargaon

Submitted By

Mr. JORE SAGAR BABASAHEB

M.Sc. II (Organic Chemistry)

Guided By

Dr. D. M. Suryawanshi
(M.Sc., Ph.D. NET)

Submitted To



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(Academic Year: 2021-2022)

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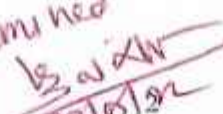


This to certify that the work incorporated in this project report entitled "A PRACTICAL AND GREEN PROTOCOL FOR SYNTHESIS OF 2,3-DIHYDROQUINAZOLIN-4(1H)-ONES USING IONIC LIQUID VIA ISATOIC ANHYDRIDE" being submitted to the Head, Department of Chemistry S.S.G.M. College Kopargaon affiliated to Savitribai Phule Pune University, Pune by **Mr. JORE SAGAR BABASAHEB** was carried out by his under my supervision. Information obtained from other source has duly acknowledged in this project report.

Date: 23/05/2022

Dr. D. M. Suryawanshi
Project Guide,
Department of Chemistry


Prof. A. K. Deshmukh
Head & Vice-Principal
Department of Chemistry


Examined

23/05/22


Principal
S.S.G.M. College
Kopargaon

A
Project report
On

“SYNTHESIS AND STUDY OF SCHIFF'SBASE LIGAND”

M.Sc. Project carried out as part of curriculum for degree of “Master of Science” in
Analytical Chemistry at S.S.G.M. College, Kopargaon

Submitted By

Miss. Varsha Gorakshanath Shinde

M.Sc. II (Analytical Chemistry)

2021-2022

Guided By

Prof. KASHID P. D.
Submitted To



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SHRI SADGURU GANGAGEERI MAHARAJ SCIENCE, GAUTAM ARTS
AND SANJIVANI COMMERCE COLLEGE, KOPARGAON, DIST-AHMEDNAGAR.

CERTIFICATE




This is to certify that the work incorporated in this project report entitled "SYNTHESIS AND STUDY OF SCHIFF'S BASE LIGAND" being submitted to the Head, Department of Chemistry S.S.G.M. College kopargaon and Savitribai Phule Pune University, Pune by **Miss. Varsha Gorakshanath Shinde** was carried out by him under my supervision at S.S.G.M. College Kopargaon. Dist- Ahmednagar from other source has duly acknowledged in this project report.


Date: 23/05/2022


Prof. Kashid P. D.
Project Guide,
Department of Chemistry,
S.S.G.M. College, Kopargaon




Prof. Deshmukh A.K.
Head, P.G. and Research
Department of Chemistry,
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Principal
S.S.G.M. College
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23/5/2022
(Mr. Gubani A.B.)

(Ex: Exa.)

A
Project report
On

“ SYNTHESIS AND STUDY OF SCHIFF'SBASE LIGAND ”

M.Sc. Project carried out as part of curriculum for degree of “Master of Science” in
Analytical Chemistry at S.S.G.M. College, Kopargaon

Submitted By

Mr. Khillare Rushikesh Sampat

M.Sc. II (Analytical Chemistry)

2021-2022

Guided By

Prof. KASHID P. D.

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CERTIFICATE



This is to certify that the work incorporated in this project report entitled "SYNTHESIS AND STUDY OF SCHIFF'S BASE LIGAND" being submitted to the Head, Department of Chemistry S.S.G.M. College kopargaon and Savitribai Phule Pune University, Pune by **Mr. Khillare Rushikesh Sampat** was carried out by him under my supervision at S.S.G.M. College Kopargaon. Dist- Ahmednagar from other source has duly acknowledged in this project report.

Date: 25/05/2022

Prof. Kashid
25/5/2022
Prof. Kashid P. D.
Project Guide,
Department of Chemistry,
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Prof. Deshmukh
Prof. Deshmukh A.K.
Head, P.G. and Research
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Principal
Principal
S.S.G.M. College
Kopargaon

Mr. Gosali
25/5/2022
(Mr. Gosali A.B.)
Ex: Exr.

A
Project report

On

**“ULTRASOUND AND MICROWAVE ASSISTED SYNTHESIS OF
SCHIFF’S BASES”**

M.Sc. Project carried out as a part of curriculum for degree of “Master of
Science” in Organic Chemistry at S.S.G.M. College, Kopargaon.

Submitted By

Mr. PINGALE SHUBHAM ANAND

M.Sc. II (Organic Chemistry)

2019-2020

Guided By

Dr. Mrs. Randhavane P.V.

Submitted To



Department of Chemistry

S.S.G.M. College, Kopargaon, [423601]

Dist.-Ahmednagar [MS], India.

Rayat Shikshan Sanstha's
SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAUTAM ARTS
AND SANJIVANI COMMERCE COLLEGE, KOPARGAON, DIST-AHMEDNAGAR.

CERTIFICATE



This to certify that the work incorporated in this project report entitled "ULTRASOUND AND MICROWAVE ASSISTED SYNTHESIS OF SCHIFF'S BASES" being submitted to the Head, Department of Chemistry S.S.G.M. College Kopargaon and Savitribai Phule Pune University, Pune by Mr. PINGALE SHUBHAM ANAND was carried out by him under my supervision at S.S.G.M. College Kopargaon. Dist-Ahmednagar. Information obtained from other sources has duly acknowledged in this project report.

Date: 23/9/2020

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23/9/2020
Dr. Mrs. Randhavane P. V.
Project Guide,
Department of Chemistry,
S.S.G.M. College, Kopargaon

Dr. Thopate
Dr. Thopate S.R.
Principal
S.S.G.M. College, Kopargaon



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25.9.2020
Dr. N.M. Charles

2) [Signature]
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Randhavane P.V.

3) [Signature]
23/9/2020
Dr. D.N. Gaikwad

[Signature]
Principal
S.S.G.M. College
Kopargaon

A

Project report

On

**“SYNTHESIS OF 2-(3,5-Bis(TRIFLUOROMETHYL)PHENOXY)-
N-BENZYLIDINE ACETOHYDRAZIDE ”**

M.Sc. Project carried out as a part of curriculum for degree of “Master of Science”
in Organic Chemistry at S.S.G.M. College, Kopargaon

Submitted By

Miss. TUPKARI DHANASHRI RAVINDRA

M.Sc. II (Organic Chemistry)

2019-2020

Guided By

Dr. Mrs. Randhavane P. V.

Submitted To



Department of Chemistry

S.S.G.M. College, Kopargaon, [423601]

Dist.-Ahmednagar [MS], India.

Way of Shiksha Sanshodhan

**SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAUTAM ARTS
AND SANJIVANI COMMERCE COLLEGE, KOPARGAON, DIST-AHMEDNAGAR**

CERTIFICATE



This to certify that the work incorporated in this project report entitled "**SYNTHESIS OF 2-(3,5-Bis(TRIFLUOROMETHYL)PHENOXY)-N-BENZYLIDINE ACETOHYDRAZIDE**" being submitted to the Head, Department of Chemistry S.S.G.M. College Kopargaon and Savitribai Phule Pune University, Pune by **Miss. TUPKARI DHANASHRI RAVINDRA** was carried out by her under my supervision at S.S.G.M. College Kopargaon. Dist-Ahmednagar. Information obtained from other source has duly acknowledged in this project report.

Date: 23/9/2020

PP
23/9/2020

Dr. Randhavane P. V.
Project Guide,
Department of Chemistry,
S.S.G.M. College Kopargaon

1) *PP*
25.9.2020
Dr. N. M. Chavhan



Dr. Thopate
Dr. Thopate S. R.
Principal
S.S.G.M. College Kopargaon

2) *PP*
23/9/2020
Randhavane P.V.

3) *KS*
20/9/2020

Mr. J.N. Geikwad

PP
Principal
S.S.G.M. College
Kopargaon

A

Project report

On

“Characterization of Some Representative Synthesized Pyrazoline Derivatives”

M.Sc. Project carried out as part of curriculum for degree of
“Master of Science”

in

Organic Chemistry

at

S. S. G. M. College, Kopergaon.

Submitted By

Mr. Jadhav Vivek Dharmaraj

M.Sc. II (Organic Chemistry)

2019-2020

Guided By

Dr. Chavhan N. M.

Submitted To



P.G. and Research,
Department of Chemistry,
S.S.G.M. College, Kopergaon [423601]
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Principal
S.S.G.M. College
Kopergaon

Royal Shikshan Sanshtas
SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAUTAM ARTS
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CERTIFICATE



This is to certify that the work incorporated in this project report entitled "CHARACTERIZATION OF SOME REPRESENTATIVE SYNTHESIZED PYRAZOLINE DERIVATIVES" being submitted to the Head, Department of Chemistry, S. S. G. M. College, Kopargaon and Savitribai Phule Pune university, Pune by , Mr. Jadhav Vivek Dharmaraj was carried out by him under my supervision at S. S. G. M. College, Kopargaon, Dist- Ahmednagar. Material obtained from other source has duly acknowledged in this project report.

Date: / / 2020

Dr. N. M. Chavhan

Project Guide,
Department of Chemistry,
S. S. G. M. College, Kopargaon

Principal

S. S. G. M. Science, Gautam Arts &
Sanjivani Commerce College, Kopargaon

Prof. A. K. Deshmukh

Head, P. G. and Research
Department of Chemistry
S. S. G. M. College, Kopargaon

25.9.2020

Dr. N. M. Chavhan



Examined
21/9/2020
Randhava P.V.

M. D. N. Kulkarni

Principal
S.S.G.M.College
Kopargaon

A
Project report
On
**“Synthesis and Characterization of Some Novel Pyrazoline
Derivatives”**

M.Sc. Project carried out as part of curriculum for degree of
“Master of Science”
in
Organic Chemistry
at
S. S. G. M. College, Kopargaon.

Submitted By:

Mr. Jadhav Sanjay Raju

M.Sc. II (Organic Chemistry)

2018-2019

Guided By

Dr. Chavhan N. M.

Submitted To



P.G. and Research,
Department of Chemistry,
S.S.G.M. College, Kopargaon [423601]
Dist- Ahmednagar[MS] India


Principal
S.S.G.M.College
Kopargaon

Rayat Shikshan Samithi's
SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAITAM ARTS
AND SANJIVANI COMMERCE COLLEGE, KOPARGAON, DIST-AHMEDNAGAR

CERTIFICATE



This is to certify that the work incorporated in this project report entitled "SYNTHESIS AND CHARACTERIZATION OF SOME NOVEL PYRAZOLINE DERIVATIVES" being submitted to the Head, Department of Chemistry, S. S. G. M. College, Kopargaon and Savitribai Phule Pune university, Pune by Mr. Jadhav Sanjay Raju was carried out by him under my supervision at S. S. G. M. College, Kopargaon, Dist-Ahmednagar. Material obtained from other source has duly acknowledged in this project report.

Date: 7 / / 2019

Dr. N. M. Chavhan

Project Guide,
Department of Chemistry,
S. S. G. M. College, Kopargaon



*Jeeloo
Examiner
20-6-2019*

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A
Project report

On

**“Synthesis and Characterization of Some Fluorinated
Triazoles”**

M.Sc. Project carried out as a part of curriculum for degree of “Master of
Science” in Organic Chemistry at S.S.G.M. College, Kopergaon

Submitted By

Mr. SHINDE GANESH DNYANESHWAR

M.Sc. II (Organic Chemistry)

2018-2019

Guided By

Dr. Mrs. Randhavane P. V.

Submitted To



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Rayat Shikshan Samstha's

SHRI SADGURU GANGAGEERI MAHARAJ SCIENCE, GAUTAM ARTS
AND SANJIVANI COMMERCE COLLEGE, KOPARGAON, DIST-AHMEDNAGAR

CERTIFICATE



This is to certify that the work incorporated in this project report entitled **“Synthesis and Characterization of Some Fluorinated Triazoles”** being submitted to the Head, Department of Chemistry S.S.G.M. College Kopargaon and Savitribai Phule Pune University, Pune by **Mr. SHINDE GANESH DNYANESHWAR** was carried out by him under my supervision at S.S.G.M. College Kopargaon, Dist- Ahmednagar. Information obtained from other source has duly acknowledged in this project report.

Date: 09/03/2019

Dr. Randhavane P.V.
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A

Project report

On

**“Synthesis and Characterization of Some Pyrazole Containing
Chalcones”**

M.Sc. Project carried out as part of curriculum for degree of “Master of Science” in Organic
Chemistry at S.S.G.M. College, Kopergaon

Submitted By

Mr. JANGAM HARSHAL KAILAS

M.Sc. II (Organic Chemistry)

2017-2018

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SHRI SADGURU GANGAGEER MAHARAJ SCIENCE, GAUTAM ARTS
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CERTIFICATE



This is to certify that the work incorporated in this project report entitled "Synthesis and Characterization of Some Pyrazole Containing Chalcones" being submitted to the Head, Department of Chemistry S.S.G.M. College Kopergaon and Savitribai Phule Pune University, Pune by Mr. JANGAM HARSHAL KAILAS was carried out by him under my supervision at S.S.G.M. College Kopergaon, Dist- Ahmednagar. Such material obtained from other source has duly acknowledged in this project report.

Date: 1/3/2018


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A

Project report on

**“SYNTHESIS AND CHARACTERIZATION OF SOME
IMPORTANT PYRAZOLINE DERIVATIVES”**

M.Sc. Project carried out as part of curriculum for degree of
“Master of Science” in Analytical Chemistry

Submitted by

Mr. SABANE PRASAD BALASAHEB

M.Sc. II (Analytical Chemistry)
(2017-2018)

Under the Guidance of

Dr. CHAVHAN N.M.

Submitted to



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Dist.- Ahmednagar [MS] India.


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Certificate



This is to certify that the work incorporated in this project report entitled "SYNTHESIS AND CHARACTERIZATION OF SOME IMPORTANT PYRAZOLINE DERIVATIVES" being submitted to the Head, Department of Chemistry, S. S. G. M. College, Kopargaon and Savitribai Phule Pune University, Pune by **Mr. SABANE PRASAD BALASAHEB**, was carried out by him under my supervision at S.S.G.M. College, Kopargaon, Dist- A.nagar. Such material obtained from other source has duly acknowledged in this project report.


Date: / / 2018.


21.4.2018

Dr. N.M. CHAVHAN
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23/11/18

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Head, P. G. and Research,
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23/10/18


I/C Principal
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A

Project report

On

**“SYNTHESIS AND CHARACTERISATION OF FLUORINATED
BENZOXAZOLES”**

M.Sc. Project carried out as part of curriculum for degree of “Master of Science” in
Analytical Chemistry at S.S.G.M. College, Kopargaon

Submitted By

Miss. GHODAKE SHASHWATI DILIP

M.Sc. II (Analytical Chemistry)

2017-2018

Guided By

Prof. Dr. Jadhav R.K.

Submitted To



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Rajawade Sanshodhan Sanstha's

**SHRI SADGURU GANGAGEERI MAHARAJ SCIENCE, GAUTAM ARTS
AND SANJIVANI COMMERCE COLLEGE, KOPARGAON, DIST-AHMEDNAGAR**

CERTIFICATE



This is to certify that the work incorporated in this project report entitled "SYNTHESIS AND CHARACTERISATION OF FLUORINATED BENZOXAZOLES" being submitted to the Head, Department of Chemistry S.S.G.M. College Kopergaon and Savitribai Phule Pune University, Pune by Miss. GHODAKE SHASHWATI DILIP was carried out by her under my supervision at S.S.G.M. College Kopergaon, Dist- Ahmednagar. The reference taken from other source has duly acknowledged in this project report.

Date: 21/4/2018

Dr. Jadhav R. K.

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