

Roll NO.-07

EXAM NO.01385

PAPER NO.CHE(O)510  
PAPER NAME. DISSERTATION REPORT  
A DISSERTATION ON FUTURE OF BATTERY  
TECHNOLOGY  
SUBMITTED  
TO  
GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR  
THE DEGREE OF  
MASTER OF SCIENCE IN CHEMISTRY

By

CHUDASAMA CHANDRADEEPSINH BHUPENDRASINH  
DEPARETMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLAGE  
SEC-15, GANDHINAGAR  
UNDER THE GUIDELINES  
OF  
DR. S.P.PRAJAPATI





# GOVERNMENT SCIENCE COLLEGE

Sector – 15, Gandhinagar-382016

Principal

Dr. Mahendra G. Bhatt

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B+

(CGPA-2.69)



## CERTIFICATE

This is to certify that CHUDASAMA CHANDRADEEPSINH BHUPENDRASINH of M.Sc. Semester IV Organic Chemistry (Roll No.: GIA - 07, Enrolment No.: 202102300419, Exam No.: 01385) has successfully completed his dissertation CHE(O)510 entitled **FUTURE OF BATTERY TECHNOLOGY** at GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

**Dr. S. P. Prajapati**  
Department of Chemistry  
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INDIA

Forwarded by:

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**HEAD**  
Chemistry Department  
Government Science College,  
Gandhinagar



**Roll NO.-04**

**EXAM NO.01430**

**PAPER NO.CHE (O)510**  
**PAPER NAME. DISSERTATION REPORT**  
**A DISSERTATION ON FUTURE OF BATTERY**  
**TECHNOLOGY**  
**SUBMITTED**  
**TO**  
**GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR**  
**THE DEGREE OF**  
**MASTER OF SCIENCE IN CHEMISTRY**

**By**

**CHAUDHARY VUSHVAKUMAR SURESHKUMAR**  
**DEPARETMENT OF CHEMISTRY**  
**GOVERNMENT SCIENCE COLLAGE**  
**SEC-15, GANDHINAGAR**  
**UNDER THE GUIDELINES**  
**OF**  
**DR. S.P.PRAJAPATI**





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This is to certify that CHAUDHARY VISHVAKUMAR SURESHKUMAR of M.Sc. Semester IV Organic Chemistry (Roll No.: GIA - 04, Enrolment No.: 202102300415, Exam No.: 01430) has successfully completed his dissertation CHE(O)510 entitled FUTURE OF BATTERY TECHNOLOGY at GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR for partial fulfilment of the M.Sc. Degree in chemistry.

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Gandhinagar





**A DISSERTATION REPORT**  
**SUBMITTED**  
**TO**  
**THE GUJARAT UNIVERSITY**



**GUJARAT UNIVERSITY**  
ESTD. 1949

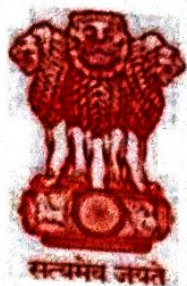
**MASTER OF SCIENCE**  
**IN**  
**Organic CHEMISTRY**

**BY**  
**PATEL ARJUN BALDEV BHAI**  
**UNDER THE SUPERVISION**  
**OF**  
**Prof. D.P Patel**

**Exam No.1416**

**Government Science Collage Gandhinagar,**  
**Gujarat University.**





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

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## CERTIFICATE

This is to certify that Patel Arjun Baldevbhai of M.Sc. Semester IV Organic Chemistry (Roll No.GIA-23 Exam No.:1420) has successfully completed his dissertation CHE(O) 510 "Extraction of nicotine from tobacco leaves" at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

Professor in charge  
Department of Chemistry  
Government Science College,  
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**Forwarded by:**

Head of the Department  
Department of Chemistry  
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Sector-15, Gandhinagar.



Roll No. : GIA 35

Exam No. :1406

PAPER No. : CHE(O) 510

PAPER NAME : DISSERTATION

A DISSERTATION REPORT

ENTITLED **"DIFFERENT PARAMETERS IN SOME  
GROUNDNUT OIL"**

SUBMITTED

TO

THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE  
IN  
CHEMISTRY  
BY**

**NAME OF STUDENT : SHELAT KRUTIVASA G.**

DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLEGE  
SECTOR 15,  
GANDHINAGAR, 382016  
GUJARAT, INDIA  
**APRIL 2023**





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

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This is to certify that **SHELAT KRUTIVASA G.** **M.Sc. Semester IV Organic Chemistry (Roll GIA 35, Exam No.:1406 )** has successfully completed his dissertation **CHE(O) 510** entitled **“DIFFERENT PARAMETERS IN SOME GROUNDNUT OIL”** at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

(Dr. Kiran Nimavat)

Professor in charge  
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**Forwarded by:**

Head of the Department  
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**HEAD**

**Chemistry Department  
Government Science College,  
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Roll No.: HPP-18

Exam No.: 1416



**Government Science College, Sec.-15  
Gandhinagar**

**Paper No.: CHE (O) 510**

**DISSERTATION**

**ON "EXCRATION OF TARTARIC ACID FROM  
TAMARIND FRUIT PULP & TAMARIND LEAVES"**

**SUBMITTED TO**

Department of Chemistry  
Gujarat University, Ahmedabad



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE  
IN  
ORGANIC CHEMISTRY**

**SUBMITTED BY**

**PATEL NIRMAL KANAIYALAL**

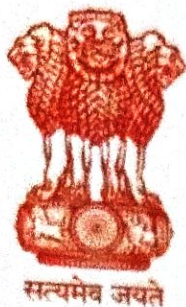
Department Of Chemistry  
Government Science College, Sector-15, Gandhinagar

Under the Supervision of

**Dr. Jayanti S. Rajora**

**APRIL 2023**





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Sector - 15, Gandhinagar-382016

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## CERTIFICATE

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Supervised by

*JSR*  
*20/4/23*

Dr. Jayanti. S. Rajora  
Department of Chemistry  
Government Science College  
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Forwarded by:

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Head of the Department  
Department of Chemistry  
Government Science College  
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HEAD  
Chemistry Department  
Government Science College.  
Gandhinagar





**GOVERNMENT**  
SCIENCE COLLEGE  
GANDHINAGAR



**GUJARAT UNIVERSITY**

FOR THE DEGREE OF

**MASTER OF SCIENCE**

IN

**ORGANIC CHEMISTRY**

BY

**PATEL ADIT PRADIPKUMAR**

**ROLL NO: 12 (HPP)**

**Exam No (M.Sc.-SEM-IV)**

**GOVERNMENT SCIENCE COLLEGE, SECTOR-15, GANDHINAGR**

**DEPARTMENT OF CHEMISTRY**

**GANDHINAGAR – 382016**

**UNDER THE SUPERVISION OF**

**DR. DIPEN GANDHI SIR**





# GOVERNMENT SCIENCE COLLEGE

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This is to certify that PATEL ADIT PRADIPKUMAR of M.Sc. Semester IV Organic Chemistry (Roll No.: HPP - 12, Enrolment No.: 202102300441, Exam No.:       ) has successfully completed his dissertation **CHE(O)510** entitled SYNTHESIS AND CHARACTERIZATION OF ACID BLACK-210 at SHREEJI INDUSTRIES, VATVA, AHMEDABAD for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

**Dr. D. S. Gandhi**  
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Forwarded by:

**Head of the Department**  
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Government Science College  
Gandhinagar(GUJARAT)  
INDIA



**Roll No. : HPP 14**

**Exam No.: 1402**

**PAPER No. : 510**

**A DISSERTATION REPORT**

**ENTITLED DETERMINATION OF IRON IN FLOUR BY  
THIOCYANATE COLORIMETRY METHOD**

**SUBMITTED**

**TO**

**THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE  
IN  
CHEMISTRY  
BY**

**PATEL KHYATI AMRUTLAL**

**DEPARTMENT OF CHEMISTRY  
SCHOOL OF SCIENCES  
GUJARAT UNIVERSITY  
AHMEDABAD-380009**

**GUJARAT, INDIA**

**APRIL 2023**





**GOVERNMENT SCIENCE COLLEGE**  
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**CERTIFICATE**

This is to certify that **PATEL KHYATI AMRUTLAL** of M.Sc. Semester IV Organic Chemistry (Roll No.: **HPP-14**, Enrolment No.: **202102300453**, Exam No.: **1402**) has successfully completed his dissertation CHE(O)510 entitled **DETERMINATION OF IRON IN FLOURS BY THIYOCYANATE COLORIMETRY METHOD** at **GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR** for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

*JSK*  
*20/4/23*

**Dr. Jayanti. S. Rajora**  
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**Head of the Department**  
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**HEAD**  
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Government Science College.  
Gandhinagar



ROLL NO: - GIA-23

EXAM NO.: 1420



**Government Science College  
Sector-15, Gandhinagar**

**PAPER NO.: CHE (O) 510**

**PAPER NAME: dissertation**

**SUBMITTED**

**TO**

**Department of chemistry  
Gujarat university, Ahmedabad**



**IN PARTIAL FULFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF  
MASTER OF SCIENCE**

**IN**

**CHEMISTRY (ORGANIC)**

**SUBMITTED BY**

**PATEL BHAUMIK PANKAJBHAI**

**DEPARTMENT OF CHEMISTRY,**

**GOVERNMENT SCIENCE COLLEGE SECTOR-15,  
GANDHINAGAR**

**GUIDED BY: - D.P.PATEL SIR**

**April - 2023**



# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

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## CERTIFICATE

This is to certify that Patel Bhaumik Pankajbhai of M.Sc. Semester IV Organic Chemistry (Roll No.GIA-23 Exam No.:1420) has successfully completed his dissertation CHE(O) 510 entitled “Extraction of Nicotine From Tobacco Leaves” at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

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**Forwarded by:**

Head of the Department  
Department of Chemistry  
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Sector-15, Gandhinagar.



Roll no.: GIA 16

Exam no.:



**Government Science College, Sector-15,  
Gandhinagar**

**Paper no.: CHE (0) 510**

**Paper name: DISSERTATION REPORT**

**SUBMITTED TO**

**Department of Chemistry Gujarat  
University, Ahmedabad**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE  
IN**

**ORGANIC CHEMISTRY**

**SUBMITTED BY**

**muniya pragnaben samudabhai**

**Department of Chemistry**

**Government Science College, Sector-15, Gandhinagar**

**Under the Supervision of Dr. D.P. PATEL SIR**

**April 2023**





**GOVERNMENT SCIENCE COLLEGE,  
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**CERTIFICATE**

This is to certify that Muniya Pragna S. of M.Sc. Semester IV Organic Chemistry  
(Roll No. GIA16 Exam No.: ) has successfully completed his dissertation CHE(O) 510  
entitled “CAPSAICIN EXTRACTION FROM CHILLI” at Department of Chemistry,  
Government Science College,  
Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

Professor in charge  
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Head of the Department  
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Sector-15, Gandhinagar.



**"Physico - chemical analysis of GIDC Naroda canal  
water and Sabarmati River water at sant Sarovar"**

**DISSERTATION REPORT  
SUBMITTED TO  
THE GUJARAT UNIVERSITY**



**GOVERNMENT  
SCIENCE COLLEGE  
GANDHINAGAR**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE**

**IN  
CHEMISTRY  
BY**

**PATEL DEEP PRAMODBHAI**

**DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR  
GUJARAT UNIVERSITY  
AHMEDABAD-380009, GUJARAT, INDIA**

**APRIL 2023**





# GOVERNMENT SCIENCE COLLEGE

Sector – 15, Gandhinagar-382016

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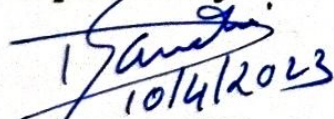
NAAC Accredited-B+  
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## CERTIFICATE

This is to certify that PATEL DEEP PRAMODBHAI of M.Sc. Semester IV Organic Chemistry (Roll No.: HPP-13, Enrolment No.: 202102300447, Exam No.: \_\_\_\_\_) has successfully completed his dissertation CHE(O)510 entitled PHYSICO-CHEMICAL ANALYSIS OF GIDC NARODA CANAL WATER AND SABARMATI RIVER WATER AT SANT SAROVAR at GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

  
10/4/2023

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PAPER No.: 510(O)

PAPER NAME: Dissertation/Project Work

A DISSERTATION REPORT

ENTITLED

**Ascorbic acid determination in fresh fruits juices  
by titrimetric method**

SUBMITTED

TO

THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE  
IN  
CHEMISTRY  
BY**

**TAK KULSHRESTH ANILKUMAR**

UNDER THE GUIDENCE OF  
**DR. JAYANTI S. RAJORA**

DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLEGE, SEC-15,  
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GUJARAT, INDIA  
APRIL 2023



**GOVERNMENT  
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## CERTIFICATE

This is to certify that TAK KULSHRESTH ANILKUMAR of M.Sc. Semester IV Organic Chemistry (Roll No.: HPP-25, Enrolment No.: 202102300472, Exam No.: 1407) has successfully completed his dissertation CHE(O)510 entitled ASCORBIC ACID DETERMINATION IN FRESH FRUITS JUICES BY TITRIMETRIC METHOD at GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

*JSR*  
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*to* *A*

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Chemistry Department  
Government Science College,  
Gandhinagar



A  
Dissertation submitted to  
**Gujarat University, Ahmadabad**



**GUJARAT UNIVERSITY**

**For the degree of Master of Science In  
CHEMISTRY  
(Organic Chemistry)**

**By**

**Solanki Flair Ashokkumar**

**Uni. Seat No.:1393**

**Under the supervision of: Dr. Kiran S.  
Nimavat**



**GOVERNMENT  
SCIENCE COLLEGE  
GANDHINAGAR**

**Department of Chemistry Government Science College**

**Sector-15, Gandhinagar-382016**





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

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## CERTIFICATE

This is to certify that Solanki Flair Ashokkumar of M.Sc. Semester IV Organic Chemistry (Roll No.: -GIA-36 Exam No.: 1393 ) has successfully completed his dissertation CHE(O) 510 entitled "Synthesis and optimization of Gold nanoparticles by wet chemicals" at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by: 

Dr. Kiran S. Nimavat

Professor in charge  
Department of Chemistry  
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Sector-15, Gandhinagar.

Forwarded by: 

Dr. D.P. Patel

Head of the Department  
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**HEAD**  
/ **Chemistry Department**  
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**Gandhinagar**



Roll no. : Hpp-04

Exam no: GSH-04

Paper no: CHE(O)510

**"Physico - chemical analysis of GIDC  
Naroda canal water and Sabarmati River water  
at sant Sarovar"**

**DISSERTATION REPORT SUBMITTED TO**  
Government science college, Gandhinagar affiliated with  
Gujarat University

**Department of chemistry**  
**Master of Science in organic chemistry**



**GUJARAT UNIVERSITY**

Estd. 1949

**Submitted by: DEDANIYA PRITKUMAR PRADIPBHAI**

**Guided by: DR. DIPEN GANDHI**

**February 2023**





सत्यमेव जयते

## GOVERNMENT SCIENCE COLLEGE

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### **CERTIFICATE**

This is to certify that **DEDANIYA PRITKUMAR PRADIPBHAI** of M.Sc. Semester IV Organic Chemistry (Roll No.: **HPP-04**, Enrolment No.: **202102300422**, Exam No.: ) has successfully completed his dissertation CHE(O)510 entitled **PHYSICO-CHEMICAL ANALYSIS OF GIDC NARODA CANAL WATER AND SABARMATI RIVER WATER AT SANT SAROVAR** at **GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR** for partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by**

**Dr. D. S. Gandhi**  
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**INDIA**

**Forwarded by:**

**Head of the Department**  
Department of Chemistry  
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Gandhinagar(GUJARAT)  
**INDIA**



**“Physico - chemical analysis of GIDC  
Naroda canal water and Sabarmati River  
water at sant Sarovar”**

**DISSERTATION REPORT SUBMITTED TO**

**Government science college, Gandhinagar**

**Affiliated with Gujarat University**

**Department of chemistry**

**Master of Science in organic chemistry**



**Estd.1949**

**Submitted by: AHIRRAO DHIREN NARESHBHAI**

**Guided by: DR. DIPEN GANDHI**





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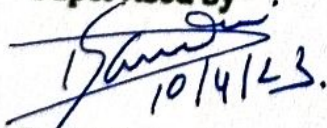
NAAC Accredited-B+  
(CGPA-2.69)



## CERTIFICATE

This is to certify that **DHIRENKUMAR AHIRRAO NARESHBHAI** of M.Sc. Semester IV Organic Chemistry (Roll No.: **HPP-06**, Enrolment No.: **202102300427**, Exam No.: \_\_\_\_\_) has successfully completed his dissertation **CHE(O)510** entitled **PHYSICO-CHEMICAL ANALYSIS OF GIDC NARODA CANAL WATER AND SABARMATI RIVER WATER AT SANT SAROVAR.** at **GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR** for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

  
10/4/23.

**Dr. D. S. Gandhi**

Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

Forwarded by:

**Head of the Department**  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA



Roll No. : 20(GIA)

Exam No. :

PAPER No. : CHE(O) 510  
PAPER NAME :- DISSERTATION

A DISSERTATION REPORT  
ENTITLED **SULPHONATION OF TOBIAS ACID**

SUBMITTED  
TO  
THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE  
IN  
CHEMISTRY  
BY  
PATEL AKSHI MAHENDRABHAI**

DEPARTMENT OF CHEMISTRY  
**GOVERNMENT SCIENCE COLLEGE SEC.-15, GANDHINAGAR**  
GUJARAT, INDIA  
APRIL 2023



# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR



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## CERTIFICATE

This is to certify that **PATEL AKSHI MAHENDRABHAI** of M.Sc. Semester IV Organic Chemistry (Roll No. GIA - 20 Exam No.: ) has successfully completed Her Dissertation for **CHE(O) 510** entitled **SULPHONATION OF TOBIAS ACID** at Department of Chemistry, Government Science College, Gandhinagar in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

Dr. D.P.PATEL

Professor in charge  
Department of  
Government Science  
College, Sector-15,  
Gandhinagar.



**Forwarded by:**

Head of the Department  
Department of Chemistry  
Government Science  
College, Sector-15,  
Gandhinagar.



A DISSERTATION REPORT (CHE (O) 510)  
METHOD DEVELOPMENT ON HPLC

SUBMITTED  
TO  
GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF  
MASTER OF SCIENCE

IN  
CHEMISTRY

BY

KHATANA DHAVALKUMAR PRABHATBHAI

Roll no. HPP-10 Exam no. (2022-2023)

DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLEGE,  
GANDHINAGAR  
GUJARAT, INDIA





# GOVERNMENT SCIENCE COLLEGE

Sector – 15, Gandhinagar-382016

Principal  
Dr. Mahendra G. Bhatt

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(M) : 94267 37331

NAAC Accredited By  
(CGPA-2.69)



## CERTIFICATE

This is to certify that **KHATANA DHAVALKUMAR PRABHATBHAI** of M.Sc.  
Semester IV Organic Chemistry (Roll No.: **HPP-10**, Enrolment No.: **202102300434**, Exam  
No.: \_\_\_\_\_) has successfully completed his dissertation **CHE(O)510** entitled **METHOD**  
**DEVELOPMENT ON HPLC** at **RELIENCE RASAYAN PHARMACEUTICALS**  
**PVT LTD** for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

**Dr. D. S. Gandhi**  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

Forwarded by:

**Head of the Department**  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA





GOVERNMENT SCIENCE COLLEGE, SECTOR-15

GANDHINAGAR

**PAPER NO.: CHE (O) 510 DISSERTATION WORK**

**PAPER NAME: DISSERTATION WORK/PROJECT WORK**

SUBMITTED

TO

THE GUJARAT UNIVERSITY



GUJARAT UNIVERSITY

MASTER OF SCIENCE

IN

ORGANIC CHEMISTRY

BY

DHALAN SHIVANI SURENDER

Exam No.1463

Government Science Collage Gandhinagar,

Gujarat University.

UNDER THE SUPERVISION OF

Prof. D.P Patel





## GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

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### CERTIFICATE

This is to certify that **DHALAN SHIVANI SURENDER** of **M.Sc. Semester IV Organic Chemistry (Roll No. 05(HPP) Exam No.: 1463 )** has successfully completed his dissertation CHE(O) 510 entitled **“EXTRACTION OF NICOTINE”** at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

Professor in charge  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.



**Forwarded by:**

Head of the Department  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.



Roll No.: HPP-24

Exam No.: 1395

PAPER No.: 510(O)

PAPER NAME: Dissertation/Project Work

A DISSERTATION REPORT

ENTITLED

**"SYNTHESIS AND OPTIMIZATION OF GOLD NANOPARTICLES BY  
WET CHEMICAL"**

SUBMITTED

TO

THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE**

**IN**

**CHEMISTRY**

**BY**

**SOLANKI GAUTAMKUMAR JIVANLAL**

UNDER THE GUIDENCE OF

**Dr. JAYANTI S. RAJORA**

DEPARTMENT OF CHEMISTRY

GOVERNMENT SCIENCE COLLEGE, SEC-15,

GANDHINAGAR

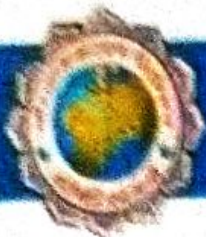
GUJARAT, INDIA

APRIL 2023



**GOVERNMENT**  
**SCIENCE COLLEGE**  
GANDHINAGAR





# SHREE SWAMINARAYAN B.Sc COLLEGE

(Affiliated to Gujarat University, Ahmedabad)

CONDUCTED BY: SATSANG SHIKSHA PARISHAD, GANDHINAGAR(GUJARAT)

## Certificate

This is to certify that *Solanki Gautmkumar Jivanlal* student of M.Sc. Semester IV Organic Chemistry, Government Science College Gandhinagar, Gujarat University, has performed his dissertation work on title "Synthesis and optimization of gold nanoparticles by wet chemical method" co-ordination with our faculties. During dissertation work he was found honest, sincere, hardworking and We wish him all the best and success in the future



  
DIRECTOR  
Shree Swaminarayan B.Sc. College  
Sector-23, Gandhinagar



PAPER No. : CHE(0)510

PAPER NAME :  
A DISSERTATION REPORT  
ENTITLED

**"Synthesis and Analysis of Reactive Black Dyes"**

SUBMITTED  
TO  
THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE**  
**IN**  
**CHEMISTRY**  
BY

**KANETIYA ABHISHEK KISHORBHAI**

DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR  
GUJARAT UNIVERSITY  
AHMEDABAD-380009  
GUJARAT, INDIA

**APRIL 2022**





सत्यमेव जयते

# GOVERNMENT SCIENCE COLLEGE

Sector - 15, Gandhinagar-382016

Principal

Dr. Mahendra G. Bhatt

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Tel. (O) : 079-23222352

(M) : 94267 37221

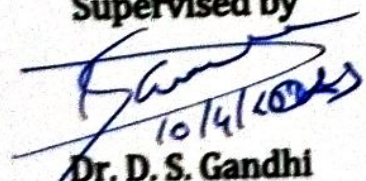
NAAC Accredited-B+  
(CGPA-2.69)



## CERTIFICATE

This is to certify that KANETIYA ABHISHEK KISHORBHAI of M.Sc. Semester IV Organic Chemistry (Roll No.: HPP-09, Enrolment No.: 202102300432, Exam No.:       ) has successfully completed his dissertation CHE(O)510 entitled SYNTHESIS AND ANALYSIS OF REACTIVE BLACK DYE at GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

  
10/4/2023  
**Dr. D. S. Gandhi**  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

Forwarded by:

**Head of the Department**  
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Government Science College  
Gandhinagar(GUJARAT)  
INDIA



**Roll NO.-05**

**EXAM NO.01377**

**PAPER NO.CHE (O)510**  
**PAPER NAME. DISSERTATION REPORT**  
**A DISSERTATION ON FUTURE OF BATTERY**  
**TECHNOLOGY**  
**SUBMITTED**  
**TO**  
**GUJARAT UNIVERSITY**

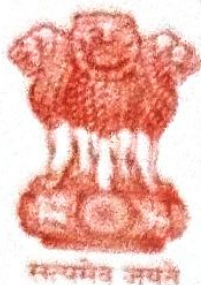


**IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR**  
**THE DEGREE OF**  
**MASTER OF SCIENCE IN CHEMISTRY**

**By**

**CHAVDA AMANSINH SHETANSINH**  
**DEPARTMENT OF CHEMISTRY**  
**GOVERNMENT SCIENCE COLLAGE**  
**SEC-15, GANDHINAGAR**  
**UNDER THE GUIDELINES**  
**OF**  
**DR. S.P.PRAJAPATI**





# GOVERNMENT SCIENCE COLLEGE

Sector - 15, Gandhinagar-382016

Principal  
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(CGPA-2.69)

## CERTIFICATE

This is to certify that CHAVDA AMANSINH SHETANSINH of M.Sc. Semester IV Organic Chemistry (Roll No.: GIA - 05, Enrolment No.: 202102300416, Exam No.: 01377) has successfully completed his dissertation CHE(O)510 entitled **FUTURE OF BATTERY TECHNOLOGY** at GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

**Dr. S. P. Prajapati**  
Department of Chemistry  
Government Science College  
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INDIA

Forwarded by:

**Head of the Department**  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

**HEAD**  
Chemistry Department  
Government Science College,  
Gandhinagar



PAPER No. :510  
PAPER NAME : CHO(O) 510  
A DISSERTATION REPORT  
ENTITLED " **Analysis of water  
Quality of sample Water  
collected from Narmada River** "

SUBMITTED  
TO  
THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR THE DEGREE  
OF

**MASTER OF SCIENCE IN  
CHEMISTRY  
BY**

**NAME OF STUDENT : VASAVA PRAGNESHKUMAR MOVASIBHAI**

DEPARTMENT OF CHEMISTRY GOVERNMENT SCIENCE COLLEGE  
GANDHINAGAR, GUJARAT UNIVERSITY AHMEDABAD-380009  
GUJARAT, INDIA

**APRIL 2023**





## GOVERNMENT SCIENCE COLLEGE

Sector – 15, Gandhinagar-382016

Principal

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(M) : 94267 37221

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(CGPA-2.69)



### CERTIFICATE

This is to certify that **VASAVA PRAGNESHKUMAR MOVASIBHAI** of M.Sc. Semester IV Organic Chemistry (Roll No.: GIA-42, Enrolment No.: 202102300479, Exam No.:1419) has submitted a dissertation report for CHE(O)-510 entitled “**Analysis of water Quality of sample Water collected from Narmada River**” at Department of Chemistry, Government Science College, Gandhinagar, Affiliated to Gujarat University, Ahmedabad for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

Dr. D. S. GANDHI  
Department of Chemistry  
Government Science College  
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INDIA

Forwarded by:

Head of the Department  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

HEAD  
Chemistry Department  
Government Science College,  
Gandhinagar





**Government Science College, Sector-15,  
Gandhinagar**

**PAPER No. : CHE (0) 510**

**PAPER NAME : DESSERTATION REPORT**

**EXTRACTION OF QUERCETIN FROM ONIONS**

**SUBMITTED**

**TO**

**THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE  
IN  
ORGANIC CHEMISTRY  
BY**

**PATEL FORAMBEN BHAVESHBHAI**

**Department of Chemistry**

**Government Science College, Sector-15, Gandhinagar**

**Under the Supervision of Dr. D.P. PATEL**

**April 2023**





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

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## CERTIFICATE

This is to certify that PATEL FORAMBEN BHAVESHBHAI of M.Sc. Semester IV Organic Chemistry (Roll No. GIA-26 , Exam No.: ) has successfully completed her dissertation for (CHE (O) 510) entitled “EXTRACTION OF QUERCETIN FROM ONION” at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

Professor in charge  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.



**Forwarded by:**

Head of the Department  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.



**Roll NO.: GIA-18**

**EXAM.:**



**Government Science College, Sector-15  
Gandhinagar**

**PAPER No. : CHE (O) 510  
PAPER NAME: A DISSERTATION REPORT  
DEFINE METAL PRESENCE IN ORE  
SUBMITTED  
TO  
THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

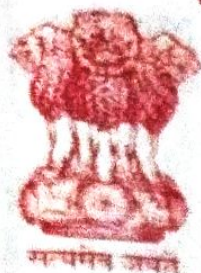
**MASTER OF SCIENCE  
IN  
CHEMISTRY  
BY  
PANDOR KARISHMABEN VISHRAMBHAI**

**DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLEGE  
SECTOR-15, GANDHINAGAR**

**GUIDED BY- DR.D.P.PATEL**

**April- 2023**





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

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## CERTIFICATE

This is to certify that **PANDOR KARISHMABEN VISHRAMBHAI** of **M.Sc. Semester IV Organic Chemistry (Roll No. GIA-18, Exam No.: )** has successfully completed her dissertation **CHE (O) 510** entitled “Define Presence of metal in Ore” at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

Professor in charge  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.



**Forwarded by:**

Head of the Department  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.



PAPER No.: 510(O)

PAPER NAME: Dissertation/Project Work

A DISSERTATION REPORT

ENTITLED

# **UV-Spectrophotometric Method for Quantification of Ascorbic Acid in Fresh Fruit Juices**

SUBMITTED

TO

THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE  
IN  
CHEMISTRY  
BY**

**SOLANKI PRATIPALSINH MAKANSINH**

UNDER THE GUIDENCE OF  
**Dr. JAYANTI S. RAJORA**

DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLEGE, SEC-15,  
GANDHINAGAR  
GUJARAT, INDIA  
APRIL 2023



**GOVERNMENT  
SCIENCE COLLEGE  
GANDHINAGAR**



# CERTIFICATE



## GOVERNMENT SCIENCE COLLEGE

Sector - 1B, Gandhinagar-382016

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(M) : 98267 37331

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(COPA-2.00)



## CERTIFICATE

This is to certify that SOLANKI PRATIPALSINH MAKANSINH of M.Sc. Semester IV Organic Chemistry (Roll No.: HPP-24, Enrolment No.: 202102300471, Exam No.: 1421) has successfully completed his dissertation CHE(O)510 entitled UV-Spectrophotometric method for quantification of Ascorbic Acid in fresh fruit juices at GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

*JS*  
19/4/23

**Dr. Jayanti. S. Rajora**  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

Forwarded by:

*to* *A*

**Head of the Department**  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

HEAD  
Chemistry Department  
Government Science College,  
Gandhinagar



**Roll No.:03(HPP)**

**Exam No. :**

**PAPER No. : 510**

**PAPER NAME : DISSERTATION**

**A DISSERTATION REPORT**

**ENTITLED "SYNTHESIS AND CHARACTERIZATION OF ACID BLACK-210**

**SUBMITTED**

**TO**

**THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE**

**IN**

**CHEMISTRY**

**BY**

**CHAVDA DHAVALSINH HITENDRASINH**

**TO**

**Dr. Dipen Gandhi Sir**

**DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCES COLLEGE**

**GANDHINAGAR  
GUJARAT, INDIA**

**APRIL 2023**





## GOVERNMENT SCIENCE COLLEGE

Sector – 15, Gandhinagar-382016

Principal

Dr. Mahendra G. Bhatt

Website:- [www.gscgandhinagar.in](http://www.gscgandhinagar.in)

### CERTIFICATE

This is to certify that **CHAVDA DHAVALSINH HITENDRASINH** of M.Sc.  
Semester IV Organic Chemistry (Roll No.: **HPP-03**, , Exam No.: \_\_\_\_\_) has successfully  
completed his dissertation **CHE(O)510** entitled **SYSTHESIS AND**  
**CHARACTERIZATION OF ACID BLACK -210** at **SHREEJI**  
**INDUSTRIES** for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

Dr. D. S. Gandhi  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

Forwarded by:

Dr.D.P.Patel  
HOD, Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA



**Roll No. : GIA - 06**

**ExamNo.:1409**

**PAPER No. : CHE (O) 510**  
**PAPER NAME : A DISSERTATION REPORT**  
**SUBMITTED**  
**TO**  
**THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE**  
**REQUIREMENT FOR THE DEGREE OF**  
**MASTER OF SCIENCE**  
**IN**

**ORGANIC CHEMISTRY**

**SUBMITTED BY**  
**CHAVDA MITABEN BIPINBHAI**

**Department Of Chemistry**  
**GOVERNMENT SCIENCE COLLEGE,**  
**GANDHINAGAR**

**APRIL 2023**





# GOVERNMENT SCIENCE COLLEGE

Sector - 15, Gandhinagar-382016

Principal  
Dr. Mahendra G. Bhatt

Website:- [www.gscgandhinagar.in](http://www.gscgandhinagar.in)

E-mail: [gscgnr@gmail.com](mailto:gscgnr@gmail.com)

Tel. (O) : 079-23222352

(M) : 94267 37221



NAAC Accredited-  
B+  
(CGPA-2.69)

## CERTIFICATE

This is to certify that **CHAVDA MITABEN BIPINBHAI** of M.Sc. Semester IV Organic Chemistry (Roll No.: **GIA - 06**, Enrolment No.: **202102300418**, Exam No.: **1409**) has successfully completed his dissertation **CHE(O)510** entitled **ANALYSIS OF WATER QUALITY OF SAMPLES COLLECTED** at **GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR** for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

**Dr. S. P. Prajapati**  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

Forwarded by:

**Head of the Department**  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

**HEAD**  
Chemistry Department  
Government Science College,  
Gandhinagar



Roll no.: GIA - 17

Exam no.:



**Government Science College, Sector-15,  
Gandhinagar**

**Paper no.: CHE (0) 510**

**Paper name: A DISSERTATION REPORT**

**EXTRACT OF QUERCETIN FROM ONIONS**

**SUBMITTED TO**

**Department of Chemistry**

**Gujarat University, Ahmedabad**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF  
MASTER OF SCIENCE**

**IN**

**ORGANIC CHEMISTRY**

**SUBMITTED BY**

**PANCHAL HEMAKSHIBEN JITENDRAKUMAR**

**Department of Chemistry**

**Government Science College, Sector - 15, Gandhinagar**

**Under the Supervision of Dr. D.P. PATEL**

**April 2023**





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

SECTOR-15, GANDHINAGAR-382016

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Email: [gscgnr@gmail.com](mailto:gscgnr@gmail.com)

NACC Accredited- B+ (CGPA-2.69)



## CERTIFICATE

This is to certify that PANCHAL HEMAKSHIBEN JITENDRAKUMAR of M.Sc. Semester IV Organic Chemistry (Roll no.: GIA-17, Exam no.: ) has successfully completed his dissertation CHE (0) 510 entitled "EXTRACT OF QUERCETIN FROM ONION" at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in Chemistry.

**Supervised by:**

Professor in charge  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.



**Forwarded by:**

Head of the Department  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.



**Roll No. : HPP-02**

**Exam No. :**

**CHE (O) 510  
A DISSERTATION REPORT  
ENTITLED**

**“PHYSICO - CHEMICAL ANALYSIS OF GIDC  
NARODA CANAL WATER AND SABARMATI RIVER  
WATER AT SANT SAROVAR”**

**SUBMITTED  
TO  
THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE  
IN  
CHEMISTRY  
BY**

**CHAUDHARI NIKIBEN RAMESHBHAI**

**DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR  
GUJARAT UNIVERSITY  
AHMEDABAD-380009 GUJARAT, INDIA**

**APRIL 2023**



# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR



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NAAC Accredited - B+ (CGPA-2.69)



## CERTIFICATE

This is to certify that **CHAUDHARI NIKIBEN RAMESHBHAI** of M.Sc. Semester IV Organic Chemistry (Roll No. **HPP-02** Enrolment No. **202102300414** Exam No. \_\_\_\_\_) has successfully completed her dissertation **CHE(O) 510** entitled "**PHYSICO - CHEMICAL ANALYSIS OF GIDC NARODA CANAL WATER AND SABARMATI RIVER WATER AT SANT SAROVAR**" at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

**Dr. D. S. Gandhi**  
Department of Chemistry  
Government Science College  
Gandhinagar (GUJARAT)  
**INDIA**

**Forwarded by:**

**Head of the Department**  
Department of Chemistry  
Government Science College  
Gandhinagar (GUJARAT)  
**INDIA**



**ROLL No.HPP- 01.**

**EXAM No.**

**PAPER No: CHE - 510**

**A DISSERTATION REPORT**

**"SYNTHESIS AND ANALYSIS OF REACTIVE DYE"**

**SUBMITTED**

**TO**

**THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE**

**REQUIREMENT FOR THE DEGREE**

**MASTER OF SCIENCE**

**IN**

**CHEMISTRY**

**BY**

**BARASARA DIVYESH RAJESHBHAI**

**DEPARTMENT OF CHEMISTRY**

**GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR**

**GUJARAT UNIVERSITY.**

**APRIL - 2023**





# GOVERNMENT SCIENCE COLLEGE

Sector - 15, Gandhinagar-382016

Principal

Dr. Mahendra G. Bhatt

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Tel. (O) : 079-23222352

(M) : 94267 37221

NAAC Accredited-B+

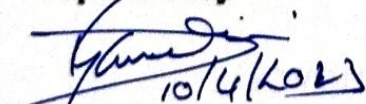
(CGPA-2.69)



## CERTIFICATE

This is to certify that BARASARA DIVYESH RAJESHBHAI of M.Sc. Semester IV Organic Chemistry (Roll No.: HPP - 01, Enrolment No.: 202102300412, Exam No.:       ) has successfully completed his dissertation CHE(O)510 entitled SYNTHESIS AND ANALYSIS OF REACTIVE DYE at GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

  
10/4/2023

Dr. D. S. Gandhi

Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

Forwarded by:

Head of the Department  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA



Roll No. :GIA – 41

Exam No. :- 1380

PAPER No. :510  
PAPER NAME : CHE(O) 510  
A DISSERTATION REPORT  
ENTITLED " "Analysis of water  
Quality of Water sample collected  
from Narmada River "

SUBMITTED  
TO  
THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR THE  
DEGREE OF

**MASTER OF SCIENCE IN  
CHEMISTRY**

BY

NAME OF STUDENT : **VASAVA ASHISHBHAI ISWARBHAI**

DEPARTMENT OF CHEMISTRY GOVERNMENT SCIENCE  
COLLEGE GANDHINAGAR, GUJARAT UNIVERSITY  
AHMEDABAD-380009 GUJARAT, INDIA

**APRIL 2023**





# GOVERNMENT SCIENCE COLLEGE

Sector - 15, Gandhinagar-382016

Principal  
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## CERTIFICATE

This is to certify that **VASAVA ASHISHBHAI ISWARBHAI** of M.Sc.

Semester IV Organic Chemistry (Roll No.:GIA-41, Enrolment No.:202102300478, Exam No.:1380) has submitted a dissertation report for CHE(O)-510 entitled "**Analysis of water Quality of sample Water collected from Narmada River**" at Department of Chemistry, Government Science College, Gandhinagar, Affiliated to Gujarat University, Ahmedabad for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

Dr. Kiran S. Nimavat  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

Forwarded by:

Head of the Department  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

HEAD  
Chemistry Department  
Government Science College.  
Gandhinagar



Roll No. : GIA-32

Exam No. : 1429

Enrollment No: 202102300440

PAPER No. : CHE (O) 510  
A DISSERTATION REPORT  
OF

**"STARCH : STUDIES AND EXTRCTION"**

SUBMITTED  
TO  
THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE  
IN  
CHEMISTRY**

BY

**PATEL VAIBHAVKUMAR VIKRAMBHAI**

DEPARTMENT OF CHEMISTRY,  
GOVERNMENT SCIENCE COLLAGE,  
GANDHINAGAR, 382016

GUJARAT, INDIA





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## CERTIFICATE

This is to certify that **PATEL VAIBHAVKUMAR VIKRAMBHAI** of **M.Sc. Semester IV Organic Chemistry** (Roll No. **GIA-32**, Exam No.: **1429**, Enrollment No.: **202102300440**) has successfully completed his dissertation **CHE(O) 510** entitled **“STARCH : STUDIES AND EXTRCTION”** at Department of Chemistry, Government Science College, Gandhinagar, Affiliated to Gujarat University, Ahmedabad for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by:

Professor in charge  
Dr. Kiran S. Nimavat  
Department of Chemistry  
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Gujarat, India

Forwarded by:

Head of the Department  
  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar,  
Gujarat, India

**HEAD**  
**Chemistry Department**  
**Government Science College.**  
**Gandhinagar**



**Roll No. : GIA 33**

**Exam No. : 1389**

**PAPER No. : CHE(O) 510**

**PAPER NAME : DISSERTATION**

**A DISSERTATION REPORT**

**ENTITLED "DIFFERENT PARAMETERS IN SOME  
GROUNDNUT OIL"**

**SUBMITTED**

**TO**

**THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE  
IN  
CHEMISTRY  
BY**

**NAME OF STUDENT : PRAJAPATI DHAVALKUMAR R.**

**DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLEGE**

**SECTOR 15,  
GANDHINAGAR, 382016  
GUJARAT, INDIA**

**APRIL 2023**





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

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## CERTIFICATE

This is to certify that **PRATAPATI BHAVAI KUMAR R.** **M.Sc. Semester IV Organic Chemistry (Roll GIA 33, Exam No.: 1389)** has successfully completed his dissertation **CHE(O) 510** entitled **"DIFFERENT PARAMETERS IN SOME GROUNDNUT OIL"** at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

(Dr. Kiran Nimavat)

Professor in charge  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.

**Forwarded by:**

Head of the Department  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.

**HEAD**  
**Chemistry Department**  
**Government Science College,**  
**Gandhinagar**



ROLL NO:GIA02

EXAM NO : 1382

A  
**Dissertation report**  
**Synthesis of silver nanoparticles and its comparative study**

SUBMITTED  
TO  
**Gujarat University**  
For the degree of



GUJARAT UNIVERSITY

**Master of Science**  
**In Organic Chemistry**  
By  
**Barad Bhagirath Bhupatbhai**

**Department of Chemistry**

**Government Science**  
**College, Sector 15,**  
**Gandhinagar**

UNDER THE SUPERVISION OF  
**DR. S. P. Prajapati**



**GOVERNMENT**  
**SCIENCE COLLEGE**  
**GANDHINAGAR**





# SHREE SWAMINARAYAN B.Sc COLLEGE

(Affiliated to Gujarat University, Ahmedabad)

CONDUCTED BY: SATSANG SHIKSHA PARISHAD, GANDHINAGAR(GUJARAT)

## Certificate

This is to certify that **Barad Bhagirath Bhupatbhai** student of M.Sc. Semester IV Organic Chemistry, Government Science College Gandhinagar, Gujarat University, has performed his dissertation work on title "Synthesis of silver nanoparticles and comparative study "co-ordination with our faculties During dissertation work he was found honest, sincere, hardworking and

We wish him all the best and success in the future



  
DIRECTOR  
Shree Swaminarayan B.Sc. College  
Sector-23, Gandhinagar



Roll No. :GIA – 40

Exam No. : 1378

PAPER No. :510  
PAPER NAME : CHO(O) 510  
A DISSERTATION REPORT  
ENTITLED " **Analysis of water  
Quality of sample Water  
collected from Narmada River** "

SUBMITTED  
TO  
THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR THE  
DEGREE OF

**MASTER OF SCIENCE IN  
CHEMISTRY**

BY

NAME OF STUDENT : **VASAVA ANAND GAMBHIRBHAI**

DEPARTMENT OF CHEMISTRY GOVERNMENT SCIENCE  
COLLEGE GANDHINAGAR, GUJARAT UNIVERSITY  
AHMEDABAD-380009 GUJARAT, INDIA

**APRIL 2023**





# GOVERNMENT SCIENCE COLLEGE

Sector - 18, Gandhinagar-382016

Principal  
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(IN) : 94267 87131

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(EQA 1.01)



## CERTIFICATE

This is to certify that **VASAVA ANAND GAMBHIRBHAI** of M.Sc.

Semester IV Organic Chemistry (Roll No. **GLA-40**, Enrolment No. **202102300472**, Exam No.:1378) has submitted a dissertation report for CHE(O)-510 entitled "**Analysis of water Quality of sample Water collected from Narmada River**" at Department of Chemistry, Government Science College, Gandhinagar, Affiliated to Gujarat University, Ahmedabad for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

Dr. Kiran S. Nimavat  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

Forwarded by:

Head of the Department  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

**HEAD**  
**Chemistry Department**  
**Government Science College.**  
**Gandhinagar**



PAPER No.: 510(O)

PAPER NAME: Dissertation/Project Work

A DISSERTATION REPORT

ENTITLED

**Determination Of Ascorbic Acid In Some Fresh  
Fruits Sample & Assesment Of Antimicrobial**

**Activity**

SUBMITTED

TO



THE GUJARAT UNIVERSITY

IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE**

**IN**

**CHEMISTRY**

BY

**VAGH RAHULKUMAR DINESHBHAI**

UNDER THE GUIDENCE OF

**Dr. JAYANTI RAJORA**

DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLEGE, SEC-15,

GANDHINAGAR

GUJARAT, INDIA

APRIL 2023



**GOVERNMENT**  
SCIENCE COLLEGE  
GANDHINAGAR





सत्यमेव जयते

# GOVERNMENT SCIENCE COLLEGE

Sector - 15, Gandhinagar-382016

Principal

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(CGPA-2.69)



## CERTIFICATE

This is to certify that **VAGH RAHULKUMAR DINESHBHAI** of M.Sc. Semester IV Organic Chemistry (Roll No.: **HPP-26**, Enrolment No.: **202102300475**, Exam No.: **1423**) has successfully completed his dissertation **CHE(O)510** entitled **DETERMINATION OF ASCORBIC ACID IN SOME FRESH FRUITS SAMPLE & ASSESSMENT OF ANTIMICROBIAL ACTIVITY** at **GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR** for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

*JSR*  
*19/4/23*

**Dr. Jayanti. S. Rajora**  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

Forwarded by:

*JSR* *A*

**Head of the Department**  
Department of Chemistry  
Government Science College  
Gandhinagar(GUJARAT)  
INDIA

HEAD  
Chemistry Department  
Government Science College.  
Gandhinagar



Roll no.: GIA-28

Exam no.:1398



**Government Science College, Sector-15,  
Gandhinagar**

**Paper no.: CHE (0) 510**

**Paper name: A DISSERTATION REPORT**

**"Assay in Levocetirizine Tablet by HPLC"**

**SUBMITTED TO**

**Department of Chemistry  
Gujarat University, Ahmedabad**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE**

**IN**

**ORGANIC CHEMISTRY**

**SUBMITTED BY**

**Patel HETASVI VASUDEV**

**Department of Chemistry**

**Government Science College, Sector - 15, Gandhinagar**

**Under the Supervision of Dr. K.S. NIMAVAT**

**April 2023**





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

Sector – 15, Gandhinagar-382016

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NAAC Accredited – B+ (CGPA-2.69)



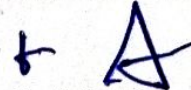
## CERTIFICATE

This is to certify that PATEL HETASVI VASUDEV of M.Sc. Semester IV Organic Chemistry (Roll No. GIA-28 Exam No.: 1398) has successfully completed her dissertation CHE (O) 510 entitled “DISSERTATION REPORT” at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

### Supervised by:

  
Dr. Kiran Nimavat  
Professor in charge  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.

### Forwarded by:

  
Head of the Department  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.

HEAD  
Chemistry Department  
Government Science College,  
Gandhinagar



# **Assay in Levocetirizine Tablet By HPLC**

**Submitted by: PATEL HARSH GIRISHBHAI**

**[ROLL NO: GIA 27]**

**Guided by: DR. K. S. NIMAVAT**

**(PH.D, M.SC, B.SC)**

**ASSISTANT PROFESSOR**

**Department of Chemistry, Government science college-  
Sector-15, Gandhinagar.**

**A Dissertation report submitted to**

**GUJARAT UNIVERSITY**

**In Partial Fulfillment of the Requirement for the Degree of  
MASTER OF SCIENCE IN ORGANIC CHEMISTRY**

**March/April:-2023**



**Department of Chemistry  
Government science college-  
Sector-15, Gandhinagar.**





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

SECTOR-15, GANDHINAGAR-382016

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NACC Accredited- B+ (CGPA-2.69)



## CERTIFICATE

This is to certify that PATEL HARSH GIRISHBHAI of M.Sc. Semester IV Organic Chemistry (Roll no.: GIA-27, Exam no.:1396) has successfully completed his dissertation CHE (0) 510 entitled "DISSERTATION REPORT" at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in Chemistry.

Supervised by:

Dr. Kiran Nimavat  
Professor in charge  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.

Forwarded by:

Head of the Department  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.

**HEAD**  
Chemistry Department  
Government Science College,  
Gandhinagar





**Government Science College, Sector-15,  
Gandhinagar**

PAPER No.: CHE (O) 510

PAPER NAME: **A DISSERTATION REPORT**

"Define a presence of metals in Ore"

**SUBMITTED TO**

Department of Chemistry

Gujarat University, Ahmedabad



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE  
IN  
ORGANIC CHEMISTRY**

**SUBMITTED BY**

**KANSAGARA RAJANKUMAR PRADIPKUMAR**

Department of Chemistry

Government Science College,

Sector-15, Gandhinagar

Under the Supervision of **Dr. D.P. PATEL**

**April 2023**





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

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## CERTIFICATE

This is to certify that **KANSAGARA RAJANKUMAR PRADIPKUMAR** of M.Sc. Semester IV Organic Chemistry (Roll No. – GIA-15 Exam No.: ) has successfully completed his dissertation CHE(O) 510 entitled "Define a presence of metals in Ore" at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

Professor in charge  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.



**Forwarded by:**

Head of the Department  
Department of Chemistry  
Government Science College,  
Sector-15, Gandhinagar.





**Government Science College, Sector-15  
Gandhinagar**

**PAPER No. : CHE (O) 510  
PAPER NAME: A DISSERTATION REPORT  
DEFINE METAL PRESENCE IN ORE  
SUBMITTED  
TO  
THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE  
IN  
CHEMISTRY  
BY**

**PATEL DHARMIK M.**

**DEPARTMENT OF CHEMISTRY  
GOVERNMENT SCIENCE COLLEGE  
SECTOR-15, GANDHINAGAR  
GUIDED BY- DR.D.P.PATEL**

**April- 2023**





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

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## CERTIFICATE

This is to certify that **PATEL DHARMIK M** of **M.Sc. Semester IV Organic Chemistry (Roll No. GIA-24, Exam No.: )** has successfully completed her dissertation **CHE(O) 510** entitled "Define Presence of metal in Ore" at Department of Chemistry, Government Science College, Gandhinagar, in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

Professor in charge  
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**Forwarded by:**

Head of the Department  
Department of Chemistry  
Government Science College,

Sector-15, Gandhinagar.



Roll No. : HPP- 17

Exam No. : 1412



**Government Science College, Sec.-15  
Gandhinagar**

**PAPER No. : CHE (O) 510  
A DISSERTATION REPORT**

**ENTITLED  
"DETERMINATION OF IRON CONTENT IN SOME LEAFY  
VEGETABLES & HERBS  
BY  
COLORIMETRY METHOD"**

**SUBMITTED TO**

Department of Chemistry  
Gujarat University, Ahmedabad



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE  
IN  
ORGANIC CHEMISTRY**

**SUBMITTED BY**

**PATEL NIDHI HARESHKUMAR**

Department Of Chemistry  
Government Science College, Sector-15, Gandhinagar

Under the Supervision of

**Dr. Jayanti S. Rajora**

**APRIL 2023**





# GOVERNMENT SCIENCE COLLEGE

Sector - 15, Gandhinagar-382016

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## CERTIFICATE

This is to certify that PATEL NIDHI HARESHKUMAR of M.Sc. Semester IV Organic Chemistry (Roll No.: HPP-17, Enrolment No.: 202102300459, Exam No.: 1412) has successfully completed his dissertation CHE(O)510 entitled DETERMINATION OF IRON CONTENT IN SOME LEAFY VEGETABLES & HERBS BY COLORIMETRIC METHOD at GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

*JSR*  
*19/4/23*

**Dr. Jayanti. S. Rajora**  
Department of Chemistry  
Government Science College  
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INDIA

Forwarded by:

*to* *A*

**Head of the Department**  
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Government Science College  
Gandhinagar(GUJARAT)  
INDIA

**HEAD**  
Chemistry Department  
Government Science College,  
Gandhinagar



Roll No. : 22(GIA)

Exam No. :

PAPER No. : CHE(O) 510  
PAPER NAME :- DISSERTATION

A DISSERTATION REPORT  
ENTITLED **SULPHONATION OF TOBIAS ACID**

SUBMITTED  
TO  
THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE  
IN  
CHEMISTRY  
BY**

**AXIBEN PARESHBHAI PATEL**

DEPARTMENT OF CHEMISTRY  
**GOVERNMENT SCIENCE COLLEGE SEC.-15, GANDHINAGAR**  
GUJARAT, INDIA  
APRIL 2023





# GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR

Sector – 15, Gandhinagar-382016

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NAAC Accredited – B+ (CGPA-2.69)



## CERTIFICATE

This is to certify that **AXIBEN PARESHBHAI PATEL** of M.Sc. Semester IV Organic Chemistry (Roll No. GIA - 22 Exam No.: ) has successfully completed Her Dissertation for **CHE(O) 510** entitled **SULPHONATION OF TOBIAS ACID** at Department of Chemistry, Government Science College, Gandhinagar in partial fulfilment of the M.Sc. Degree in chemistry.

**Supervised by:**

Dr. D.P.PATEL

Professor in charge  
Department of  
Government Science  
College, Sector-15,  
Gandhinagar.



**Forwarded by:**

Head of the Department  
Department of Chemistry  
Government Science  
College, Sector-15,  
Gandhinagar.



A  
**DISSERTATION REPORT**  
Submitted to  
**GUJARAT UNIVERSITY**  
For the degree of  
**MASTER OF SCIENCE**  
In  
**ORGANIC CHEMISTRY**



BY  
**Name:** Darji Bhavesh prakashbhai  
**Exam no:** 1384    **Roll No.:** 09-GIA    **(M.Sc. SEM-4)**  
**Department of chemistry**  
**GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR**

Under the supervision of  
**DR. S.P PRAJAPATI**

April 2023





**GOVERNMENT SCIENCE COLLEGE**  
Sector - 15 Gandhinagar-382016



Principal  
Dr. K. S. G. Bhatt  
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(M) : 94267

NAAC Accredited-B+  
(CGPA-2.69)

## CERTIFICATE

This is to certify that Darji Bhavesh prakashbhai of M.Sc. Semester IV Organic Chemistry (Roll No.: GIA-09 Enrolment No.: 202102300421 Exam No.: 1384 has successfully completed his dissertation CHE(O)510 entitled "Reactive Azo Dyes at Colorant chemical Pvt Ltd. for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

**Dr. S. P. Prajapati**  
Department of Chemistry  
Government Science College  
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Forwarded by:

**Head of the Department**  
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Gandhinagar



Roll No. : GIA-03

Exam No : 1425  
Enrollment No 202102300413

PAPER No. : CHE (O) 510  
A DISSERTATION REPORT  
OF

**ACID RED 151 DYES**

SUBMITTED

TO

THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE**

IN

**CHEMISTRY**

BY

**BHAVSAR SHAISHAV DIPAKKUMAR**

DEPARTMENT OF CHEMISTRY,

GOVERNMENT SCIENCE COLLAGE,

GANDHINAGAR, 382016

GUJARAT, INDIA





# GOVERNMENT SCIENCE COLLEGE

Sector - 15, Gandhinagar-382016

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## CERTIFICATE

This is to certify that BHAVSAR SHAISHAV DIPAKKUMAR of M.Sc. Semester IV Organic Chemistry (Roll No.: GIA - 03, Enrolment No.: 202102300413, Exam No.: 1425) has successfully completed his dissertation CHE(O)510 entitled ACID RED 151 DYES at R. K. SYNTHESIS LTD for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

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PAPER No. :510  
PAPER NAME : CHO(O) 510  
A DISSERTATION REPORT  
ENTITLED " "Analysis of water  
Quality of sample Water collected  
from Narmada River " SUBMITTED

TO  
THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE REQUIREMENT FOR THE  
DEGREE OF

**MASTER OF SCIENCE IN  
CHEMISTRY**

BY

**NAME OF STUDENT : THAKOR PRATIKSINH RANJITSINH**

DEPARTMENT OF CHEMISTRY GOVERNMENT SCIENCE  
COLLEGE GANDHINAGAR, GUJARAT UNIVERSITY  
AHMEDABAD-380009 GUJARAT, INDIA APRIL 2023





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## CERTIFICATE

This is to certify that **THAKOR PRATIKSINH RANJITSINH** of M.Sc.

Semester IV Organic Chemistry (Roll No.: **GIA-39**, Enrolment No.: **202102300474**, Exam No.: **1420**) has submitted a dissertation report for CHE(O)-510 entitled "**Analysis of water Quality of sample Water collected from Narmada River**" at Department of Chemistry, Government Science College, Gandhinagar, Affiliated to Gujarat University, Ahmedabad for partial fulfilment of the M.Sc. Degree in chemistry.

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**Roll No. : GIA - 11**

**Exam No.: 1405**

**PAPER No. : CHE (O) 510**

**PAPER NAME : A DISSERTATION REPORT**

**SUBMITTED**

**TO**

**THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE**

**IN**

**ORGANIC CHEMISTRY**

**SUBMITTED BY**

**DESAI KRUPABEN RAMESHBHAI**

**Department Of Chemistry**

**GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR**

**APRIL 2023**





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Date : 17/04/2023

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This is to certify that **DESAI KRUPABEN RAMESHBHAI** of **M.Sc. Semester IV Organic Chemistry (Roll No.: GIA-11, Enrolment No.: 202102300423, Exam No.: 1405)** has successfully completed her **Dissertation CHE(O) 510** entitled "**ON Analysis of Water Quality of Samples Collected**" at Government Science College, Gandhinagar, Affiliated to Gujarat University, Ahmedabad for partial fulfilment of the M.Sc. Degree in Chemistry.

**Supervised By :**

  
**Dr. S.P. Prajapati**

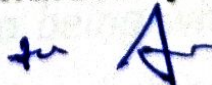
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Head of the Department

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Government Science College,

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**Roll No. : GIA - 10**

**Exam No.: 1399**

**PAPER No. : CHE (O) 510**  
**PAPER NAME : A DISSERTATION REPORT**  
**SUBMITTED**  
**TO**  
**THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE**  
**REQUIREMENT FOR THE DEGREE OF**  
**MASTER OF SCIENCE**  
**IN**

**ORGANIC CHEMISTRY**

**SUBMITTED BY**  
**DESAI JANAKBEN TEJABHAI**

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**APRIL 2023**





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This is to certify that **DESAI JANAKBEN TEJABHAI** of **M.Sc. Semester IV Organic Chemistry (Roll No.: GIA-10, Enrolment No.: 202102300424, Exam No.: 1399)** has successfully completed her **Dissertation CHE(O) 510** entitled "**ON Analysis of Water Quality of Samples Collected**" at Government Science College, Gandhinagar, Affiliated to Gujarat University, Ahmedabad for partial fulfilment of the M.Sc. Degree in Chemistry.

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**Dr. S.P. Prajapati**

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**Government Science College, Sec.-15  
Gandhinagar**

**PAPER No. : CHE (O) 510  
A DISSERTATION REPORT**

**ENTITLED  
“DETERMINATION OF IRON IN VEGETABLES & HERBS  
BY  
THIYOCYANATE COLORIMETRY METHOD”**

**SUBMITTED TO**

Department of Chemistry  
Gujarat University, Ahmedabad



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE  
IN  
ORGANIC CHEMISTRY**

**SUBMITTED BY**

**Pithiya Sonikaben Rambhai**

Department Of Chemistry  
Government Science College, Sector-15, Gandhinagar

Under the Supervision of

**Dr. Jayanti S. Rajora**

**APRIL 2023**





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## CERTIFICATE

This is to certify that PITHIYA SONIKABEN RAMBHAI of M.Sc. Semester IV Organic Chemistry (Roll No.: HPP - 20, Enrolment No.: 202102300462, Exam No.: 1427) has successfully completed his dissertation CHE(O)510 ENTITLED DETERMINATION OF IRON IN VEGETABLES & HERBS BY THIOCYNATE COLORIMETRY METHOD at GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

*JSR*  
*19/4/23*

**Dr. Jayanti S. Rajora**  
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PAPER No.: CHE (O) 510

PAPER NAME: DISSERTATION REPORT

ASSAY AND DISSOLUTION OF MOXIFLOXACIN HYDROCHLORIDE BY HPLC

SUBMITTED TO  
THE GUJARAT UNIVERSITY



IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF

**MASTER OF SCIENCE**

**IN**

**CHEMISTRY**

**BY**

**VAGHELA KEYURSINH MAHESHBHAI**

DEPARTMENT OF CHEMISTRY

GOVERNMENT SCIENCE COLLEGE, Sec-15

GANDHINAGAR

**APRIL 2023**

Under the guidance of

**Dr. JAYANTI S. RAJORA**

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GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR



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This is to certify that **VAGHELA KEYURSINH MAHESHBHAI** of M.Sc. Semester IV Organic Chemistry (Roll No.: **HPP-27**, Enrolment No.: **202102300476**, Exam No.: **1401**) has successfully completed his dissertation **CHE(O)510** entitled **Assay and Dissolution of MOXIFLOXACIN HYDROCHLORIDE by HPLC** at **SHANKUS PHARMACEUTICALS, GANDHINAGAR** for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

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*19/4/23*

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**Roll No.: HPP-16**

**Exam No.: 1411**

**CHE (O) 510**  
**DISSERTATION REPORT ON**  
**EXTRACTION OF TARTARIC ACID FROM TAMRIND**  
**PULP AND LEAVES**

**SUBMITTED TO**

**THE GUJARAT UNIVERSITY**



**IN PARTIAL FULLFILLMENT OF THE**  
**REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE**  
**IN**  
**ORGANIC CHEMISTRY**

**SUBMITTED BY**

**PATEL NEHABEN ANILKUMAR**

**Department Of Chemistry**

**Government Science College, Sector-15, Gandhinagar**

**Under the Supervision of**

**Dr. Jayanti S. Rajora**

**APRIL 2023**





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## CERTIFICATE

This is to certify that **PATEL NEHABEN ANILKUMAR** of M.Sc. Semester IV Organic Chemistry (Roll No.: **HPP-16**, Enrolment No.: **202102300458**, Exam No.: **1411**) has successfully completed his dissertation CHE(O)510 entitled **EXTRACTION OF TARTARIC ACID FROM TAMARIND PULP AND LEAVES** at **GOVERNMENT SCIENCE COLLEGE, GANDHINAGAR** for partial fulfilment of the M.Sc. Degree in chemistry.

Supervised by

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*20/4/23*

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# DISSERTATION REPORT



**GOVERNMENT**  
SCIENCE COLLEGE  
GANDHINAGAR



## REPORT SUBMITTED BY

NAME : SOLANKI NIKHIL KUMAR BABULAL

ROLL NO. : GIA- 37 [MSC- SEM-4]

EXAM NO. : 1413

ENROLLMENT NO. : 202102300470

GOVERNMENT SCIENCE COLLEGE, SECTOR -15,  
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This is to certify that SOLANKI NIKHIL KUMAR BABULAL of M.Sc. Semester IV Organic Chemistry (Roll No.: GIA-37, Enrolment No.: 202102300470, Exam No.: 1413) has submitted a dissertation report for CHE(O)-510 entitled "**STARCH : STUDIES & EXTRACTION**" at Department of Chemistry, Government Science College, Gandhinagar, Affiliated to Gujarat University, Ahmedabad for partial fulfilment of the M.Sc. Degree in chemistry.

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**PAPER No. : 510  
DISSERTATION REPORT  
SUBMITTED  
TO**



**IN PARTIAL FULLFILLMENT OF THE  
REQUIREMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE  
IN  
CHEMISTRY**

**BY**

**ASARI MITESH HARESHBHAI**

**DEPARTMENT OF CHEMISTRY**

**GOVERNMENT SCIENCE COLLEGE GANDHINAGAR SEC-15**

**GUJARAT, INDIA**

**APRIL 2023**





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Sector - 15, Gandhinagar-382016

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This is to certify that **ASARI MITESH HARESHBHAI** of M.Sc. Semester IV Organic Chemistry (Roll No.: **GIA-1**, Enrolment No.: **202102300410**, Exam No.: **1410** has successfully completed her conference report for **CHE(O)-510** entitled **ESTIMATION OF VITAMIN C IN AMLA** at Department of Chemistry, Government Science College, Gandhinagar, Affiliated to Gujarat University, Ahmedabad for partial fulfilment of the M.Sc. Degree in chemistry.

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## CERTIFICATE

This is to certify that PATEL MAHIMA PRAVINBHAI of M.Sc. Sem IV Organic Chemistry ( Roll no. : GIA – 31) has successfully completed his dissertation CHE(O)510 entitled "Assay in Cevocetrizine Tablet by HPLC" for partial fulfilment of the M.Sc. Degree in Chemistry

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## CERTIFICATE

This is to certify that PATEL FIZA RAMESHKUMAR of M.Sc. Sem IV Organic Chemistry ( Roll no. :GIA - 25) has successfully completed his dissertation CHE(O)510 entitled "Extraction of quinotone from tobacco leaves" for partial fulfilment of the M.Sc. Degree in Chemistry

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## CERTIFICATE

This is to certify that GAJJAR NIRAVKUMAR KETANKUMAR of M.Sc. Sem IV Organic Chemistry ( Roll no. : GIA – 13) has successfully completed his dissertation CHE(O)510 entitled "Define a presence of metals in ore" for partial fulfilment of the M.Sc. Degree in Chemistry

Supervised by

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## GOVERNMENT SCIENCE COLLEGE

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### CERTIFICATE

This is to certify that GAMBHAVA KISHAN HARESHBHAI of M.Sc. Sem IV Organic Chemistry ( Roll no. : HPP – 8 ) has successfully completed his dissertation CHE(O)510 entitled “Physico - Chemical Analysis of GIDC Naroda canal water and Sabarmati River at Sant Sarovar” for partial fulfilment of the M.Sc. Degree in Chemistry

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## GOVERNMENT SCIENCE COLLEGE

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### CERTIFICATE

This is to certify that PRAJAPATI MEGHABEN RAJENDRAKUMAR of M.Sc. Sem IV Organic Chemistry ( Roll no. : HPP – 21 ) has successfully completed his dissertation CHE(O)510 entitled "Determination of iron in vegetables and herbs by thiocyanate colorimetry method" for partial fulfilment of the M.Sc. Degree in Chemistry

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## CERTIFICATE

This is to certify that "DANTANI PAYALBEN NARAYANBHAI " of M.Sc. Sem IV  
Organic Chemistry ( Roll no. : GIA – 8) has successfully completed his dissertation  
CHE(O)510 entitled " Capsaicin Extraction from Chilli" for partial fulfilment of the  
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## CERTIFICATE

This is to certify that GADHIYA AKSHAYKUMAR KANTIBHAI of M.Sc. Sem IV Organic Chemistry ( Roll no. : HPP – 7 ) has successfully completed his dissertation CHE(O)510 entitled "Physico - Chemical Analysis of GIDC Naroda canal water and Sabarmati River at Sant Sarovar" for partial fulfilment of the M.Sc. Degree in Chemistry

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