

CERTIFICATE

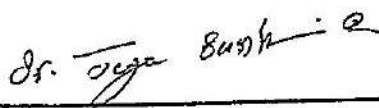
do hereby certify that the Summer Internship Training report entitled "**Improvement of Pharmacokinetic Properties of Drugs through Bioconjugation with Polyhydroxyethyl spartamide (PHEA)**" has been carried out by the candidate **Ms. ABISHA S M**, II M.Sc., Chemistry, PG and Research Department of Chemistry, Auxilium College (Autonomous) in the Department of Biotechnology, Indian Institute of Technology Madras during the period 1-05-2019 – 30-06-2019.



Signature of the Guide with seal



Dr. M. MICHAEL GROMIHA
Professor
Department of Biotechnology
Indian Institute of Technology Madras
Chennai - 600 036, India



PRINCIPAL
AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.

LOYOLA INSTITUTE OF FRONTIER ENERGY (LIFE)

Loyola College (Autonomous)
Chennai - 600 034, Tamilnadu, India



Certificate

This is to certify that **Ms. A. AISHWARYA**, Auxilium College
has successfully completed the Summer Internship Training Programme on
"Isolation of Natural products and the Study of Medicinal and Biological Activities"
from **02.05.2019** to **24.05.2019** organized by Loyola Institute of Frontier Energy (LIFE).

Loyola College, Chennai, Tamil Nadu, India.

Rev. Dr. John Pragasam, SJ
Director, LIFE

Dr. M.F. Vaian
Course Coordinator

82-ayo Bush - 2

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AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.

Certificate

11.06.2019

This is to certify that **Ms. P. B. Aishwarya lakshmi (30518P14003)** of Auxilium College Vellore, Tamil Nadu, has been carried her project work entitled **"Removal of traces of impurities (Organic compounds) from waste water by using Fenton's Reagent"** under my guidance at **R&D Department of Thirumalai Chemicals Limited Ranipet**, during the period from **6th May 2019 to 6th June 2019**. It is further certified that this research is an independent work carried out by Ms. P. B. Aishwarya lakshmi.

V. Thanikodi
11/06/19

V. Thanikodi

Joint Manager-R&D

Thirumalai Chemicals Limited

25-B, Sipcot Industrial complex

Ranipet - 632403

Tamil Nadu - India

Dr. S. S. S. S.


<p>PRINCIPAL AUXILIUM COLLEGE (Autonomous) Gandhi Nagar, Vellore - 632 006. Vellore District, Tamil Nadu.</p>

Dr. (Mrs.) J. Judith Vijaya M.Sc., Ph.D., F.I.C.S
Assistant Professor
Catalysis and Nanomaterials Research Laboratory
Department of Chemistry, Loyola College, Chennai-34.

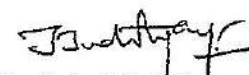
CERTIFICATE

This is to certify that Ms. ARUNA A, Reg. No. 30518P14004, M.Sc. Chemistry, Department of Chemistry, AUXILIUM COLLEGE, VELLORE has successfully completed her internship on the title "SYNTHESIS AND CHARACTERIZATION OF COPPER DOPED TRONTIUM HEXAFERRITES FOR THE PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE DYE " at Catalysis and Nanomaterials Laboratory, Department of Chemistry, Loyola College (Autonomous), Chennai - 34. The period of the internship is from 24-04-2019 to 15-06-2019. She was sincere and her skills are appreciable. We wish her success in all her future endeavors.


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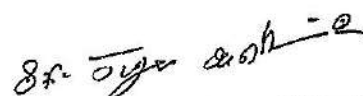

M. George Johnson
Head, Department of Chemistry

Dr. M. G. JOHNSON
PROFESSOR & HEAD
DEPARTMENT OF CHEMISTRY
LOYOLA COLLEGE (AUTONOMOUS)
CHENNAI-600 034.


Dr. J. Judith Vijaya
Supervisor

Dr. J. JUDITH VIJAYA, Ph.D., F.I.C.S.
Assistant Professor
Catalysis & Nanomaterials Research Laboratory
Department of Chemistry
Loyola College, Chennai - 600 034


Rev Dr A. Thomas, SJ.
Principal



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Vellore District, Tamil Nadu.



UNIVERSITY OF MADRAS
DEPARTMENT OF ORGANIC CHEMISTRY
GUINDY CAMPUS, CHENNAI-600 025
TAMILNADU, INDIA

Dr. A. K. MOHANAKRISHNAN, Ph.D.,
Professor & Head

Tel: +91-044-22201813/15
E-mail: mohanakrishnan@unom.ac.in

CERTIFICATE

I do hereby certify that the Summer Project Report entitled "SYNTHESIS OF SIMPLE ORGANIC COMPOUNDS" has been carried out by the candidate Ms. L. ASWINI, II M. Sc. Chemistry, PG and Research Department of Chemistry, Auxilium College (Autonomous) in the Department of Organic Chemistry, University of Madras, Guindy Campus, Chennai during the period of 02th May - 10th June, 2019.

Sr. Jaya Shankar

PRINCIPAL
AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.

A. K. Mohanakrishnan
10/06/2019

Dr. A. K. Mohanakrishnan
Professor & Head
Department of Organic Chemistry
University of Madras
Guindy Campus, Chennai-600 025

LOYOLA COLLEGE

(AUTONOMOUS)

MUNGAMBAKKAM, CHENNAI 600 034,

TAMIL NADU, INDIA

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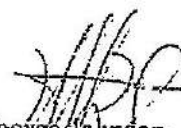
Web : www.loyolacollege.edu

(Mrs.) J. Judith Vijaya M.Sc., Ph.D., F.I.C.S
Assistant Professor
Catalysis and Nanomaterials Research Laboratory
Department of Chemistry, Loyola College, Chennai-34.


CERTIFICATE

It is to certify that Ms. A. CHRISTINA MARY SHAMINA, Reg. No. 30518P14006, M.Sc. Chemistry, Department Of Chemistry, AUXILIUM COLLEGE, VELLORE has successfully completed her internship on the title "PHOTOCATALYTIC DYE DEGRADATION OF METHYLENE BLUE USING $ZnFe_2O_4@TiO_2$ CORE-SHELL NANOPARTICLES BY GREEN SYNTHESIS" at Catalysis and Nanomaterials Laboratory, Department of Chemistry, Loyola College (Autonomous), Chennai - 34. The period of the internship is from 24-04-2019 to 15-06-2019. She was sincere and her skills are appreciable. We wish her success in all her future endeavors.

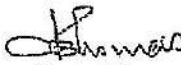
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M. George Johnson
Head, Department of Chemistry

Dr. M. G. JOHNSON
PROFESSOR & HEAD
DEPARTMENT OF CHEMISTRY
LOYOLA COLLEGE (AUTONOMOUS)
CHENNAI-600 034.



Dr. J. Judith Vijaya
Supervisor

Dr. J. JUDITH VIJAYA, Ph.D., F.I.C.S.
Assistant Professor
Catalysis & Nanomaterials Research Laboratory
Department of Chemistry
Loyola College, Chennai - 600 034


Rev Dr A. Thomas, SJ.
Principal

Principal
LOYOLA COLLEGE
CHENNAI - 600 034

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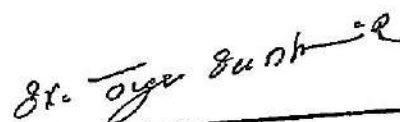
CERTIFICATE

I do hereby certify that Summer Project Report entitled "*Electro And Electroless Ni/B/RGO Based Nano Composite Coating On Mild Steel For Anti Corrosion Activity In Industrial Applications*" has been carried out by the candidate Ms. DEEPIKA.R, II M.Sc., Chemistry, PG and Research Department of Chemistry, Auxilium College (Autonomous) in the Analytical Department, University of Madras during the period 29.04.19 to 31.5.19.



Signature of the Guide with seal

Dr. T.M. SRIDHAR
Assistant Professor & Head Vc.,
Department of Analytical Chemistry
University of Madras
MSB, 4th Floor, Opp. Birds Planetarium
Guindy Campus, Chennai - 600 023



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Vellore District, Tamil Nadu.



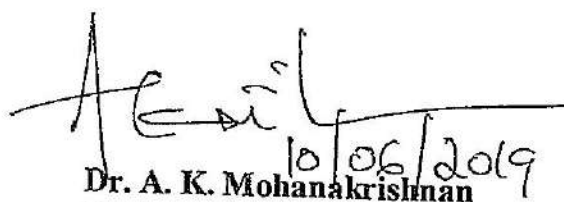
UNIVERSITY OF MADRAS
DEPARTMENT OF ORGANIC CHEMISTRY
GUINDY CAMPUS, CHENNAI-600 025
TAMILNADU, INDIA

Dr. A. K. MOHANAKRISHNAN, Ph.D.,
Professor & Head

Tel: +91-044-22201813/15
E-mail: mohanakrishnan@unom.ac.in

CERTIFICATE

I do hereby certify that the Summer Project report entitled "SYNTHESIS OF SIMPLE ORGANIC COMPOUNDS" has been carried out by the candidate Ms. G. DIVYA (II M. Sc, Department of Chemistry, Auxilium College) in the Department of Organic Chemistry, University of Madras, Guindy Campus, Chennai-25 during the period of 02th May-10th June 2019.



10/06/2019
Dr. A. K. Mohanakrishnan
Professor & Head
Department of Organic Chemistry
University of Madras
Guindy Campus, Chennai-600 025

81-

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AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.

Certificate

11.06.2019

This is to certify that **Ms. R. Elamathi** (30518P14009) of Auxilium College Vellore, Tamil Nadu, has been carried her project work entitled "**Solubility of Malic, Maleic and Fumaric acid by using various solvents**" under my guidance at **R&D Department of Thirumalai Chemicals Limited Ranipet**, during the period from **6th May 2019 to 6th June 2019**. It is further certified that this research is an independent work carried out by

Ms. R.Elamathi

V. Thanikodi
11/06/19

V. Thanikodi

Joint Manager-R&D

Thirumalai Chemicals Limited

25-B, Sipcot Industrial complex

Ranipet - 632403

Tamil Nadu - India

J. S. S. S. S. S.

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Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.



**Thirumalai
Chemicals Ltd.**

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CIN : L24100MH1972PLC016149

25-A, SIPCOT INDUSTRIAL COMPLEX,
RANIPET 632 403, TAMILNADU, INDIA.
PHONE : +91 - 4172 - 244441, 2, 6
FAX : +91 - 4172 - 244308
E-MAIL : mail@thirumalaichemicals.com

06-June-2019

TO WHOMSOEVER IT MAY CONCERN

This is to inform you that Mrs. E. Kaviyarasi (Reg. No: 30518P14010), doing first year M.Sc (Chemistry) from Auxilium College, Vellore has completed her Project work at Thirumalai Chemicals Ltd., Ranipet on the topic titled "Malic Acid and Fumaric acid" from May 06, 2019 to June 06, 2019.

During this period, she was found to be very inquisitive in learning, sincere and dedicated.

We wish her all the best for his future Endeavour.

For Thirumalai Chemicals Ltd.,

Anish D Jasper

Anish D Jasper
Senior Officer (HR)



J. S. Sush

PRINCIPAL
AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.

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Mumbai-400 022, India

PHONE : +91 - 22 - 43686200, 24017841. FAX : +91 - 22 - 2401 - 1699 / 7869

E-Mail : thirumalai@thirumalaichemicals.com

Website : www.thirumalaichemicals.com



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E-MAIL : mail@thirumalaichemicals.com

06-June-2019

TO WHOMSOEVER IT MAY CONCERN

This is to inform you that Ms. S.M. Keerthanaa (Reg. No: 30518P14011), doing first year M.Sc Chemistry) from Auxilium College, Vellore has completed her Project work at Thirumalai Chemicals Ltd., Ranipet on the topic titled "Malic Acid and Fumaric Acid" from May 06, 2019 to June 06, 2019.

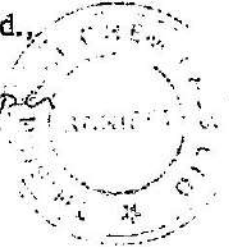
During this period, she was found to be very inquisitive in learning, sincere and dedicated.

We wish her all the best for his future Endeavour.

For Thirumalai Chemicals Ltd.,

Anish D. Jasper

Anish D Jasper
Senior Officer (HR)



Dr. Jagan Sankar

PRINCIPAL
AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.

MUMBAI OFFICE : "Thirumalai House", Plot No. 101-102, Road No.29, Sion (East),
Mumbai-400 022, India

PHONE : +91 - 22 - 43686200, 24017841. FAX : +91 - 22 - 2401 - 1699 / 7869

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Email : welcome@loyolacollege.edu


Web : www.loyolacollege.edu

Dr. (Mrs.) J. Judith Vijaya M.Sc., Ph.D., F.I.C.S.
Assistant Professor
Catalysis and Nanomaterials Research Laboratory
Department of Chemistry, Loyola College, Chennai-34.

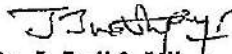
CERTIFICATE

This is to certify that Ms. LATHAPRIYA R. V, Reg. No. 30518P14012, M.Sc. Chemistry, Department of Chemistry, AUXILIUM COLLEGE, VELLORE has successfully completed her internship on the title "SYNTHESIS AND CHARACTERIZATION OF FeNi₃/SiO₂/CuS MAGNETIC NANOCOMPOSITE FOR THE PHOTOCATALYTIC DEGRADATION OF ETHYLENE BLUE DYE " at Catalysis and Nanomaterials Laboratory, Department of Chemistry, Loyola College (Autonomous), Chennai - 34. The period of the internship is from 24-4-2019 to 15-06-2019. She was sincere and her skills are appreciable. We wish her success in all her future endeavors.

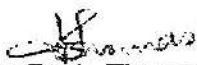
Forwarded by


Dr. M. George Johnson
Head, Department of Chemistry


Dr. M. G. JOHNSON
PROFESSOR & HEAD
DEPARTMENT OF CHEMISTRY
LOYOLA COLLEGE (AUTONOMOUS)
CHENNAI - 34


Dr. J. Judith Vijaya
Supervisor

Dr. J. JUDITH VIJAYA, Ph.D., F.I.C.S.
Assistant Professor
Catalysis & Nanomaterials Research Laboratory
Department of Chemistry
Loyola College, Chennai - 600 034


Rev. Dr. A. Thomas, SJ.
Principal

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06-June-2019

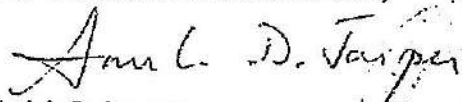
TO WHOMSOEVER IT MAY CONCERN

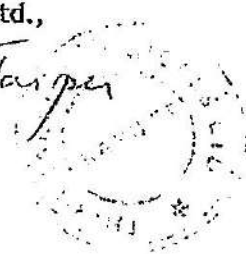
This is to inform you that Ms. A. Lidiya (Reg. No: 30518P14013), doing first year M.Sc Chemistry) from Auxilium College, Vellore has completed her Project work at Thirumalai Chemicals Ltd., Ranipet on the topic titled "Food Acids" from May 06, 2019 to June 06, 2019.

During this period, she was found to be very inquisitive in learning, sincere and dedicated.

We wish her all the best for his future Endeavour.

For Thirumalai Chemicals Ltd.,


Anish D Jasper
Senior Officer (HR)



Dr. Jayashree

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Vellore District, Tamil Nadu.**

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Website : www.thirumalaichemicals.com





LOYOLA INSTITUTE OF FRONTIER ENERGY (LIFE)

Loyola College (Autonomous)
Chennai - 600 034, Tamil Nadu, India



Certificate

This is to certify that **Ms. A. MOHANA PRIYA**, Auxilium College
has successfully completed the Summer Internship Training Programme on
"Isolation of Natural products and the Study of Medicinal and Biological Activities"
from **02.05.2019** to **24.05.2019** organized by Loyola Institute of Frontier Energy (LIFE).

Loyola College, Chennai, Tamil Nadu, India.

Rev. Dr. F. Andrew, SJ
Principal, Loyola College

Rev. Dr. John Pragasam, SJ
Director, LIFE

Dr. M.F. Valan
Course Coordinator

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Vellore District, Tamil Nadu.



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TAMILNADU, INDIA

Dr. A. K. MOHANAKRISHNAN, Ph.D.,
Professor & Head

Tel: +91-044-22201813/15
E-mail: mohanakrishnan@unom.ac.in

CERTIFICATE

I do hereby certify that the Summer Project Report entitled
“SYNTHESIS OF SIMPLE INDOLE DERIVATIVES” has been carried out
by the candidate Ms. G. NIRMALA, II M. Sc. Chemistry, PG and Research
Department of Chemistry, Auxilium College (Autonomous) in the Department of
Organic Chemistry, University of Madras, Guindy Campus, Chennai during the
period of 02nd May to 10th June, 2019.

Dr. A. K. Mohanakrishnan

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AUXILIUM COLLEGE (Autonomous)
Gandhi Nagar, Vellore - 632 006.
Vellore District, Tamil Nadu.

A. K. Mohanakrishnan
10/06/2019

Dr. A. K. Mohanakrishnan
Professor & Head
Department of Organic Chemistry
University of Madras
Guindy Campus, Chennai-600 025

CERTIFICATE

I do hereby certify that the Summer project entitled "EVALUATION OF INVITRO BEHAVIOUR OF Sr DOPED HAP SYNTHESISED VIA WET CHEMICAL PRECIPITATION AND HYDROTHERMAL SYNTHESIS" has been carried out by the candidate Ms.Pavithra.K, II M.Sc., Chemistry, PG and Research Department of Chemistry, Auxilium College (Autonomous) in the Department of Analytical chemistry , University of Madras during the period 29.04.19 to 31.5.19 .



Signature of the guide with seal

Dr. T.M. SRIDHAR
Assistant Professor & Head *l/c.*,
Department of Analytical Chemistry
University of Madras
MSB, 4th Floor, Opp. Birla Planetarium
Guindy Campus, Chennai - 600 025.



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Vellore District, Tamil Nadu.

Certificate

10.06.2019

This is to certify that **Ms. P. Ramya** (30518P14017) of Auxilium College Vellore, Tamil Nadu, has been carried her project work entitled "**Preparation of Butyl Benzoate by Esterification**" under my guidance at **R&D Department of Thirumalai Chemicals Limited Ranipet**, during the period from **6th May 2019 to 6th June 2019**. It is further certified that this research is an independent work carried out by Ms. P. Ramya.

V. Thanikodi

10/06/19

V. Thanikodi

Joint Manager-R&D

Thirumalai Chemicals Limited

25-B, Sipcot Industrial complex

Ranipet - 632403

Tamil Nadu - India

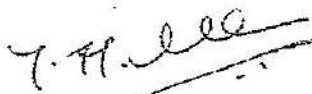
Dr. Jaya Shankar

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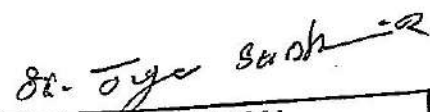
CERTIFICATE

I do hereby certify that Summer Project Report entitled "*Preparation Of Watermelon Rind Based Graphene Composite For Metal Ion Removal*" has been carried out by the candidate Ms. RAMYA.R, II M.Sc., Chemistry, PG and Research Department of Chemistry, Auxilium College (Autonomous) in the Analytical Department, University of Madras during the period 29.04.19 to 31.5.19.



Signature of the Guide with seal

Dr. T.M. SRIDHAR
Assistant Professor & Head *Uc.*,
Department of Analytical Chemistry
University of Madras
MSB, 4th Floor, Opp. Birla Planetarium
Guindy Campus, Chennai - 600 025.



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Vellore District, Tamil Nadu.



UNIVERSITY OF MADRAS
DEPARTMENT OF POLYMER SCIENCE
GUINDY CAMPUS, CHENNAI-600 025



Dr.N. RAJENDIRAN
Associate Professor

E-mail : nrajendiar@yahoo.com
Phone : +91-44-22202822

31-05-2019

CERTIFICATE

I do hereby certify that the Summer Internship Training report entitled "SYNTHESIS AND CHARACTERIZATION OF CARBON QUANTUM DOTS FUNCTIONALIZED TITANIUM DIOXIDE" has been carried out by the candidate Ms. C. M. SANDEHYA, II M.Sc, Chemistry, PG and Research, Department of Chemistry, Auxilium college (Autonomous) in the Department of Polymer Science, University of Madras, Guindy Campus, Chennai-25, under my supervision during the period of May-2019.

(N. RAJENDIRAN)
Dr. N. RAJENDIRAN, M.Sc., Ph.D.,
Associate Professor
Department of Polymer Science
University of Madras, Guindy Campus
Chennai - 600 025.

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Vellore District, Tamil Nadu.



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FAX : +91 - 4172 - 244308
E-MAIL : mail@thirumalaichemicals.com

06-June-2019

TO WHOMSOEVER IT MAY CONCERN

This is to inform you that Ms. S. Sandhiya (Reg. No: 30518P14020), doing first year M.Sc Chemistry) from Auxilium College, Vellore has completed her Project work at Thirumalai Chemicals Ltd., Ranipet on the topic titled "Water Analysis" from May 06, 2019 to June 06, 2019.

During this period, she was found to be very inquisitive in learning, sincere and dedicated.

We wish her all the best for his future Endeavour.

For Thirumalai Chemicals Ltd.,

Anish D. Jasper

Anish D Jasper
Senior Officer (HR)



S. S. Sandhiya

PRINCIPAL
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Gandhi Nagar, Vellore - 632 006.
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E-Mail : thirumalai@thirumalaichemicals.com
Website : www.thirumalaichemicals.com



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06-June-2019

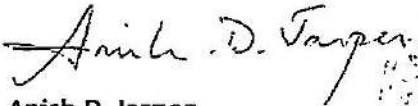
TO WHOMSOEVER IT MAY CONCERN

This is to inform you that Ms. G. Sangeetha (Reg. No: 30518P14021), doing first year M.Sc Chemistry) from Auxilium College, Vellore has completed her Project work at Thirumalai Chemicals Ltd., Ranipet on the topic titled "Water Analysis" from May 06, 2019 to June 06, 2019.

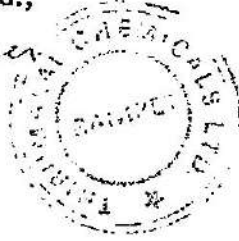
During this period, she was found to be very inquisitive in learning, sincere and dedicated.


We wish her all the best for his future Endeavour.

For Thirumalai Chemicals Ltd.,



Anish D Jasper
Senior Officer (HR)




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UNIVERSITY OF MADRAS
DEPARTMENT OF POLYMER SCIENCE
GUINDY CAMPUS, CHENNAI-600 025



UNIVERSITY
OF MADRAS

Dr.N. RAJENDIRAN
Associate Professor

E-mail : nrajendiar@yahoo.com
Phone :+91-44-22202822

31-05-2019

CERTIFICATE

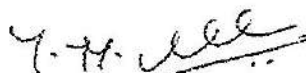
I do hereby certify that the Summer Internship Training report entitled "SYNTHESIS AND CHARACTERIZATION OF DIMALIC CHOLIC ACID AND STABILIZATION OF NOBLE METAL NANOPARTICLES" has been carried out by the candidate Ms. M. SARANYA, II M.Sc, Chemistry, PG and Research, Department of Chemistry, Auxilium college (Autonomous) in the Department of Polymer Science, University of Madras, Guindy Campus, Chennai-25, under my supervision during the period of May-2019.

(N. RAJENDIRAN)
Dr. N. RAJENDIRAN, M.Sc., Ph.D.,
Associate Professor
Department of Polymer Science
University of Madras, Guindy Campus
Chennai - 600 025.

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CERTIFICATE

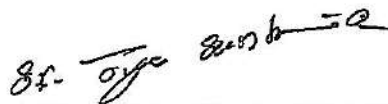
I do hereby certify that Summer Project Report entitled "*Graphene Oxide And Hydroxyapatite Coatings On 316L Stainless Steel*" has been carried out by the candidate Ms.SUGANYA.S, II M.Sc., Chemistry, PG and Research Department of Chemistry, Auxilium College (Autonomous) in the Analytical Department, University of Madras during the period 29.04.19 to 31.5.19.



Signature of the Guide with seal

Dr. T.M. SRIDHAR

Assistant Professor & Head *in* charge,
Department of Analytical Chemistry
University of Madras
MSB, 4th Floor, Opp. Birla Planetarium
Guindy Campus, Chennai - 600 025.



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