CHRISTIAN COLLEGE, CHENGANNUR

(Affiliated to the University of Kerala)

Angadical, Chengannur - 689122, Kerala, India

www.christiancollege.in, E-mail: christiancollege@gmail.com, Phone 0479- 2452275, Fax 0479 – 2450375

Estd 1964

16/08/2019

The following were the students who undertook field projects / internships during the previous five years.

Programme Name	Program Code	Candidate Code	Name of Students Undertaking Field Projects / Internships	During	Institution
M.Sc. Physics	630	63014102006	Jasmine Jose	2015-16	Vikram Sarabhai Space Centre, Thiruvananthapuram
M.Sc. Physics	630	63014102004	Asha Elizabeth Philip	2015-16	Vikram Sarabhai Space Centre, Thiruvananthapuram
M.Sc. Physics	630	63015102005	Jubie Raju	2016-17	Vikram Sarabhai Space Centre, Thiruvananthapuram
M.Sc. Chemistry	636	63615102006	Joyce Thankam Joseph	April - June 2017	National institute for Inter-disciplinary Science and Technology, Thiruvananthapuram
M.Sc. Chemistry	636	63615102001	Anjana Mohan	April-May,2017	Council for Food Research and Development, Konni
M.Sc. Chemistry	636	63615102012	Sreepriya Sreekumar	April-May,2017	Coir Board, Kalavoor
M.Sc. Chemistry	636	63615102003	Anju Raj	April-May,2017	Coir Board, Kalavoor
M.Sc. Chemistry	636	63615102007	Lydia Merina Babu	April-May,2017	Coir Board, Kalavoor
B.Com	159	15914102001	Abin Sam Abraham	Sept 2016-Feb 2017	Janatha Polymers,Mavelikara, Alapuzha Dist.
B.Com	159	15914102002	Akhila K.S.	Sept 2016-Feb 2017	Janatha Polymers,Mavelikara, Alapuzha Dist.
B.Com	159	159141000 7	Bijin K Thomas	Sept 2016-Feb 2017	Janatha Polymers,Mavelikara, Alapuzha Dist.
B.Com	159	15914102022	Chithra G	Sept 2016-Feb 2017	Janatha Polymers,Mavelikara, Alapuzha Dist.
M.Sc. Chemistry	636	63616102010	Sreeja S.	April-May,2018	CEPCI Laboratory & Research Institute, Kollam

CHRISTIAN COLLEGE KERALA CHENGANNUR

16 Aug 2019

Dr. Johnson Baby
PRINCIPAL
Christian College, Chengannur

CHRISTIAN COLLEGE, CHENGANNUR

(Affiliated to the University of Kerala)

Angadical, Chengannur - 689122, Kerala, India

www.christiancollege.in, E-mail: christiancollege@gmail.com, Phone 0479- 2452275, Fax 0479 – 2450375

Estd 1964

M.Sc. Chemistry	636	63616102011	Sinju Abraham	April-May,2018	CEPCI Laboratory & Research Institute, Kollam
M.Sc. Chemistry	636	63616102010	Sari S.	April - May, 2018	CEPCI Laboratory & Research Institute, Kollam
M.Sc. Chemistry	636	63616102005	Mridula M. Nair	April-May 2018	CEPCI Laboratory & Research Institute, Kollam
M.Sc. Chemistry	636	63616102003	Donnamol Sunny	April - May, 2018	Centre for Water Resources Development & Management, Kozhikode
M.Sc. Chemistry	636	63616102001	Akash Anand George	April-MAY 2018	The Kerala Minerals & Metals Limited, Kollam
M.Sc. Chemistry	636	63616102009	Sanjana C.S.	March - June 2018	Bhabha Atomic Research Centre, Kalpakkam
M.Sc. Chemistry	636	63616102004	Jithina M.T.	March - June 2018	Bhabha Atomic Research Centre, Kalpakkam

CHRISTIAN COLLEGE KERALA CHENGANNUR

16 Aug 2019

Dr. Johnson Baby
PRINCIPAL
Christian College, Chengannur

Principal

[illegible]
[illegible]
विक्रम साराभाई अंतरिक्ष केन्द्र
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]SPACE

Government of India
Department of Space
Vikram Sarabhai Space Centre
Thiruvananthapuram-695 022
Kerala, INDIA
Telephone : +91-471-2562730
Fax : +91-471-2706535
ई-मेल/e-mail: sandhya_nair@vssc.gov.in

SPACE PHYSICS LABORATORY

CERTIFICATE

This is to certify that the thesis entitled *"A study of turbulent fluxes in the Atmospheric Boundary Layer over a coastal station using eddy covariance system"* is a bonafide record of research work done by Ms. Jasmine Jose, University of Kerala, during the academic year 2015-2016 who has carried out the study under my supervision and guidance for the award of the degree of Master of Science in Physics. This is her original contribution and has not been submitted for the award of any Degree or Diploma to any other University or Institution.

Sandhya K. Nair
Dr. Sandhya K. Nair
Scientist/Engineer 'SE', SPL

Thiruvananthapuram
August 2016

भारत सरकार
अंतरिक्ष विभाग
विक्रम साराभाई अंतरिक्ष केन्द्र
तिरुवनन्तपुरम-695 022
केरल, भारत
फोन : 91-471-2562786
फैक्स : +91-471-2706535
तार/Gram:SPACE

सत्यमेव जयते

Government of India
Department of Space
Vikram Sarabhai Space Centre
Thiruvananthapuram-695 022
Kerala, INDIA
Telephone : +91-471-2562786
Fax : +91-471-2706535
ई-मेल/e-mail: sandhya_nair@vssc.gov.in

SPACE PHYSICS LABORATORY

CERTIFICATE

This is to certify that the thesis entitled ***"A study of Atmospheric Boundary Layer height and ventilation coefficient and its role on pollution dispersion"*** is a bonafide record of research work done by Ms. Asha Elizabeth Philip, University of Kerala, during the academic year 2015-2016. She has carried out the study under my supervision and guidance for the award of the degree of Master of Science in Physics. This is her original contribution and has not been submitted for the award of any Degree or Diploma to any other University or Institution.

Sandhya K. Nair
Dr. Sandhya K. Nair
Scientist/Engineer 'SE', SPL

Thiruvananthapuram
August 2016

भारत सरकार
अंतरिक्ष विभाग
विक्रम साराभाई अंतरिक्ष केन्द्र
तिरुवनन्तपुरम-695 022
केरल, भारत
फोन : +91-471-2562159
फैक्स : +91-471-2706535
तार/Gram: SPACE

सत्यमेव जयते

Government of India
Department of Space
Vikram Sarabhai Space Centre
Thiruvananthapuram-695 022
Kerala, INDIA
Telephone : +91-471-2562159
Fax : +91-471-2706535
ई-मेल/e-mail: siddarth_das@vssc.gov.in
dassiddhu@vahoo.com

डॉ. सिध्दार्थ शंकर दास /Dr. SIDDARTH SHANKAR DAS
वैज्ञानिक-एसई /Scientist-SE
अंतरिक्ष भौतिकी प्रयोगशाला / SPACE PHYSICS LABORATORY

जून/June 8, 2017

CERTIFICATE

This is to certify that the thesis entitled, '***Study on diurnal variability of temperature over India using INSAT-3DR satellite measurements***' is a bonafide record of project work done by Ms. Jubie Raju, Department of Physics, Christian College, Chengannur, Alapuzha, during the academic year 2016-2017. She has carried out the study under my supervision and guidance for the award of the degree of Master of Science in Physics. This is her original contribution and has not been submitted for the award of any Degree of Diploma to any other University or Institution.

8/6/17

सिध्दार्थ शंकर दास /Siddarth Shankar Das

वीएसएससी-अन्तरिक्ष भौतिकी प्रयोगशाला * भारत सरकार, अन्तरिक्ष विभाग * तिरुवनन्तपुरम * VSSC-SPACE PHYSICS LABORATORY * GOVT. OF INDIA, DEPT. OF SPACE * THIRUVANANTHAPURAM - 695 022

डॉ.सिद्धार्थ शंकर दास / Dr.Siddarth Shankar Das
वैज्ञानिक - एसई / Scientist-SE
अंतरिक्ष भौतिकी प्रयोगशाला / Space Physics Laboratory
विक्रम साराभाई अंतरिक्ष केन्द्र / Vikram Sarabhai Space Centre
इसरो - अंतरिक्ष विभाग / ISRO - Dept. of Space
भारत सरकार / Government of India
तिरुवनन्तपुरम / Thiruvananthapuram-695 022

honor 8 Pro

राष्ट्रीय अंतर्विषयी विज्ञान तथा प्रौद्योगिकी संस्थान
NATIONAL INSTITUTE FOR INTERDISCIPLINARY SCIENCE AND TECHNOLOGY
वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
इंडस्ट्रियल इस्टेट पी. ओ, पाप्पनंकोड, तिरुवनंतपुरम, भारत - 695 019
Council of Scientific and Industrial Research
Industrial Estate P.O., Pappanamcode, Thiruvananthapuram, India-695 019

Dr. Raj Sankar Cheriyedath
Scientist Fellow
Materials Science and Technology Division
CSIR-NIIST, Thiruvananthapuram

CERTIFICATE

This is to certify that the work incorporated in the dissertation **"Effect of In and Ti doping in thermoelectric properties of SnSe"** submitted to Kerala University by **Ms. JOYCE THANKAM JOSEPH (Candidate code: 15102006),** Department of Chemistry, Christian College, Chengannoor, Kerala, was carried out by the candidate under my supervision at the Material Science and Technology Division, National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Trivandrum, during the period of April-June 2017. The dissertation is submitted for the partial fulfilment of the award of Degree of Master of Science in Analytical Chemistry. The present work or any part thereof has not been submitted elsewhere for award of any other degree.

Thiruvananthapuram
Date: 03/08/2017

Dr. Raj Sankar Cheriyedath
Scientist Fellow, MSTD, CSIR-NIIST

Tel: 91 471 2515239 Fax: 91 471 2491895, 2490389, (D) 2515239/510/511/256/384 E-mail: spo@niist.res.in. Website: http//www.niist.res.in

COUNCIL FOR FOOD RESEARCH AND DEVELOPMENT, KERALA
(Department of Food, Civil Supplies and Consumer Affairs, Government of Kerala)
Anakuthi, Perinjottakkal P.O, Konni, Pathanamthitta. Dist, Kerala. Pin–689692.
Tel: 0468-2241144/2241188, Email:cfrd2008@gmail.com

CERTIFICATE

This is to certify that the dissertation entitled **"Studies on Extraction, Purification, Quantification and Control of Aflatoxins in Different Food Grains"** is a record of the bonafide work carried out by the candidate **Ms. ANJANA MOHAN**, in Chemical Division, Food Quality Monitoring Laboratory, CFRD, Konni, under my guidance and supervision and is submitted to the University of Kerala, Thiruvananthapuam, in partial fulfillment of the requirement for the award of the degree of Master of Science in Analytical Chemistry. It is further certified that the work done is original and no part of the dissertation has formed the basis for the award of any degree or other similar titles of any other universities.

Dr. Renjith R. S.
Senior Analyst,
Chemical Division,
Food Quality Monitoring Laboratory.

Konni,
13-07-2017.

कयर बोर्ड
COIR BOARD
Ministry of Micro,Small and Medium Enterprises, (Government of India)

केन्द्रीय कयर अनुसंधान संस्थान
CENTRAL COIR RESEARCH INSTITUTE

कलवूर पी.ओ.
पिन-688522
आलप्पुषा ज़िल्ला
टेलिफोण -258094
258480

Kalavoor P.O.
Pin - 688 522
Alleppey Dist.
Tel: 258094
258480

CERTIFICATE

This is to certify the dissertation entitled " **A STUDY ON THE SUPERABSORBENT PROPERTIES OF COIR PITH ON TREATMENT WITH POLYACRYLIC ACID** " submitted to Kerala University, Thiruvananthapuram for partial fulfillment of the requirement for the award of Master of Science in Analytical Chemistry, is a record of original project work carried out by Ms. Sreepriya Sreekumar student of Christian college, Chengannur. The research work has been carried out under my guidance in the Department of Chemistry at the Central Coir Research Institute, Kalavoor, Alappuzha. To the best of my knowledge it has not formed the basis for the award of any degree, diploma or fellowship.

Place: Kalavoor, Alappuzha

Date: 08.08.17

Sumy Sebastian

Senior Scientific Officer (Polymer) i/c

कयर बोर्ड
COIR BOARD
Ministry of Micro,Small and Medium Enterprises, (Government of India)

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कलवूर पी.ओ.
पिन-688522
आलप्पुझ जिल्ला
टेलिफोन -258094
258480

Kalavoor P.O.
Pin - 688 522
Alleppey Dist.
Tel: 258094
258480

CERTIFICATE

This is to certify the dissertation entitled **"GREEN SYNTHESIS OF SILVER NANOPARTICLES, IMPREGNATION ON TO THE CELLULOSE COIRPITH AND THEIR ANTIBACTERIAL EVALUATION"** submitted to Kerala University, Thiruvananthapuram for partial fulfillment of the requirement for the award of Master of Science in Analytical Chemistry, is a record of original project work carried out by Anju Raj student of Christian college, Chengannur. The research work has been carried out under my guidance in the Department of Chemistry at the Central Coir Research Institute, Kalavoor, Alappuzha. To the best of my knowledge it has not formed the basis for the award of any degree, diploma or fellowship.

Sunny Sebastian

Senior Scientific Officer Polymer i/c

Place: Kalavoor, Alappuzha

Date: 07.09.17

कयर बोर्ड
COIR BOARD
Ministry of Micro,Small and Medium Enterprises, (Government of India)

केन्द्रीय कयर अनुसंधान संस्थान
CENTRAL COIR RESEARCH INSTITUTE

कलवूर पी.ओ.
पिन-688522
आलप्पुषा ज़िल्ला
टेलिफोण -258094
258480

Kalavoor P.O.
Pin - 688 522
Alleppey Dist.
Tel: 258094
258480

CERTIFICATE

This is to certify that the dissertation entitled **"GREEN SYNTHESIS OF TiO_2/ZnO NANOPARTICLES FROM COIR EXTRACT AND THEIR ANTIBACTERIAL EVALUATION"** submitted to Kerala University, Thiruvananthapuram for partial fulfillment of the requirement for the award of Master of Science in Analytical Chemistry, is a record of original project work carried out by Ms. Lydia Merina Babu student of Christian college, Chengannur. The research work has been carried out under my guidance in the Department of Chemistry at the Central Coir Research Institute, Kalavoor, Alappuzha. To the best of my knowledge it has not formed the basis for the award of any degree, diploma or fellowship.

Place: Kalavoor, Alappuzha

Date: 08.08.17

Mrs. Sumy Sebastian

SSO (Poly) i/c

JANATHA
QUALITY & SERVICE

JANATHA POLYMERS
Shed No. C 12 A&B, Kollakadavu Industrial Estate
Kallimel P.O. Mavelikara Alappuzha District 690509 Kerala India
Tel : 91 479 2357555 Email : janathapolymers@gmail.com
GSTIN : 32ALTPS3977J1Z9

Date : 25/02/2017

PROJECT CERTIFICATE

This is to certify that the below mention B.Com students of **Christian College, Chengannur** had satisfactorily completed **Analytical Study about Employees Welfare Measures** at **Janatha Polymers, KIE, Mavelikara.** They were carrying the study during the period from 12/09/2016 to 24/02/2017. Their conduct and character were found satisfactorly. We take this opportunity to wish them a bright future.

Name of Students

1.Abin Sam Abraham (15914102001)

2.Akhila K S (15914102002)

3.Bijin K Thomas (15914102007)

4.Chithra G (15914102022)

JANATHA POLYMERS * KOLLAKADAVU INDUSTRIAL ESTATE * KALLIMEL MAVELIKARA

FOR JANATHA POLYMERS
For JANATHA POLYMERS
Sreedevi
MANAGER
SREEDEVI.R

सी इ पी सी आई प्रयोगशाला
एवं अनुसंधान संस्थान

CEPCI LABORATORY &
RESEARCH INSTITUTE

Cashew Bhavan, Mundakkal, Kollam-691 001, Kerala, India, Tel:+91 474 2761003, 2742704
Fax: +91 474 2742704, E-mail:cepcilab@cashewindia.org Web: www.cepclab.org.in

(19)

No.QUL/M.Sc.PROJ/1/2018 / 103

9th February, 2018

The HOD,
Post Graduate Department of Chemistry,
Christian College,
Chengannur,
Alappuzha,
Kerala – 689122.

Dear Sir,

Sub: M.Sc. Project Work – reg.
Ref: Your letter dated 12-01-2018.

As desired in the letter cited, facilities and guidance shall be provided to **Ms. Sreeja. S,** M.Sc. Analytical Chemistry student of your college for carrying out her M.Sc. project work at our organization during the period from April to May 2018.

The student may be advised to register her name by remitting the fees (first installment / full) upon receipt of this letter.The admissions are based on first come-first-serve basis.

Copy of the guidelines of the PG Program is enclosed herewith.

Thanking you,

Yours faithfully,

Haseena

(Haseena.M)
Senior Scientist

Encl. : As above.

सी इ पी सी आई प्रयोगशाला
एवं अनुसंधान संस्थान

CEPCI LABORATORY &
RESEARCH INSTITUTE

Cashew Bhavan, Mundakkal, Kollam-691 001, Kerala, India, Tel:+91 474 2761003, 2742704
Fax: +91 474 2742704, E-mail:cepcilab@cashewindia.org Web: www.cepclab.org.in

(11)

No.QUL/M.Sc.PROJ/1/2018/163

9th February, 2018

The HOD,
Post Graduate Department of Chemistry,
Christian College,
Chengannur,
Alappuzha,
Kerala – 689122.

Dear Sir,

Sub: M.Sc. Project Work – reg.
Ref: Your letter dated 12-01-2018.

As desired in the letter cited, facilities and guidance shall be provided to **Ms. Sinju Abraham,** M.Sc. Analytical Chemistry student of your college for carrying out her M.Sc. project work at our organization during the period from April to May 2018.

The student may be advised to register her name by remitting the fees (first installment / full) upon receipt of this letter.The admissions are based on first come-first-serve basis.

Copy of the guidelines of the PG Program is enclosed herewith.

Thanking you,

Yours faithfully,

Haseena

(Haseena.M)
Senior Scientist

Encl. : As above.

सी इ पी सी आई प्रयोगशाला
एवं अनुसंधान संस्थान

CEPCI LABORATORY &
RESEARCH INSTITUTE

Cashew Bhavan, Mundakkal, Kollam-691 001, Kerala, India, Tel:+91 474 2761003, 2742704
Fax: +91 474 2742704, E-mail:cepcilab@cashewindia.org Web: www.cepclab.org.in

(12)

CERTIFICATE

This is to certify that this dissertation entitled **"Study of Phytochemical and antioxidant activity of Vinca Rosea and comparison of its antimicrobial activity with turmeric "** is a bonafide record of independent work carried out by **Ms. Sari.S,** M.Sc. Analytical Chemistry student, Christian College, Chengannur, under the guidance and supervision of Mrs. Haseena.M of this institute. It is further certified that she has independently reviewed the literature, performed all the tests, analyzed the results and critically discussed the findings in presenting data.

This is in partial fulfillment of the requirements for the ***Master's Degree in Analytical Chemistry in of University of Kerala.***

Kollam
31-05-2018

Haseena
(M. Haseena)
Senior Scientist

सी इ पी सी आई प्रयोगशाला
एवं अनुसंधान संस्थान

CEPCI LABORATORY &
RESEARCH INSTITUTE

Cashew Bhavan, Mundakkal, Kollam-691 001, Kerala, India, Tel:+91 474 2761003, 2742704
Fax: +91 474 2742704, E-mail:cepcilab@cashewindia.org Web: www.cepclab.org.in

(13)

No.QUL/M.Sc.PROJ/1/2018 /103

9th February, 2018

The HOD,
Post Graduate Department of Chemistry,
Christian College,
Chengannur,
Alappuzha,
Kerala – 689122.

Dear Sir,

Sub: M.Sc. Project Work – reg.
Ref: Your letter dated 12-01-2018.

As desired in the letter cited, facilities and guidance shall be provided to **Ms. Mrudula. M. Nair,** M.Sc. Analytical Chemistry student of your college for carrying out her M.Sc. project work at our organization during the period from April to May 2018.

The student may be advised to register her name by remitting the fees (first installment / full) upon receipt of this letter.The admissions are based on first come-first-serve basis.

Copy of the guidelines of the PG Program is enclosed herewith.

Thanking you,

Yours faithfully,

Haseena

(Haseena.M)
Senior Scientist

Encl. : As above.

(14)

CENTRE FOR WATER RESOURCES DEVELOPMENT AND MANAGEMENT
KUNNAMANGALAM, KOZHIKODE - 673 571

PROCEEDINGS

Sub: - CWRDM - Dissertation Work of M.Sc Analytical Chemistry student - Permission Granted – Orders issued.

No.E2-160/2012 Kunnamangalam, Kozhikode, Dated: 11-04-2018

ORDER

Ms.Donamol Sunny, M.Sc Analytical Chemistry student, Department of Chemistry, Christian College, Chengannur, Alapuzha.689122 is permitted to do Dissertation Work in this Centre under the guidance of Dr.P.S.Harikumar, Senior Principal Scientist, WQD subject to the condition that CWRDM has no financial commitment in this regard.

She will be governed by the rules and regulations of the Centre as under:-

a) She is bound to abide by the Security and other general Rules of Conduct of the Centre.
b) She is liable to make good, any loss or damage caused to any of the instruments/ equipments of the Centre during her work.
c) She should remit an amount of Rs.12,000/- in lumpsum as fee for the Dissertation Work in for 3 months irrespective of duration of the project , in advance, and Rs.2500/- for additional month in the Accounts Section of this Centre and inform the Assistant Registrar (HR) before starting the Dissertation Work.
d) The topic for Dissertation Work will be selected by the concerned Scientists of CWRDM.
e) It has to be ensured that the Principal /Head of the Department of the College shall not interfere in the selection of the topics or guidance of the Dissertation Work.
f) The work performed in CWRDM shall invariably form a part of the Thesis /Project Report and the Scientist guiding him will issue the Certificate to the effect.
g) The Period of the Dissertation Work will be two months from 09-04-2018 to 31-05-2018.

Registrar

To: Ms.Donamol Sunny
M.Sc Analytical Chemistry student
Department of Chemistry
Christian College, Chengannur, Alapuzha, 689122

Copy to:

Dr.Sophia K Philip
HOD & Associate Professor
Department of Chemistry
Christian College
Chengannur
Alapuzha.689122

Dr. P.S.Harikumar Head, WQD
Deputy Registrar
Assistant Registrar (HR)
Assistant Registrar (P&A)
Head i/c, LD&I
Executive Director's Secretariat
PA to Registrar
SF, OC

सी इ पी सी आई प्रयोगशाला
एवं अनुसंधान संस्थान

CEPCI LABORATORY &
RESEARCH INSTITUTE

Cashew Bhavan, Mundakkal, Kollam-691 001, Kerala, India, Tel:+91 474 2761003, 2742704
Fax: +91 474 2742704, E-mail:cepcilab@cashewindia.org Web: www.cepclab.org.in

CERTIFICATE

This is to certify that this dissertation entitled **"Comparative study of Nutritional Analysis and Antioxidant activity of Three Types of Edible Mushrooms "** is a bonafide record of independent work carried out by **Ms. Mrudula.M.Nair,** M.Sc. Analytical Chemistry student, Christian College, Chengannur, under the guidance and supervision of Mrs. Haseena.M of this institute. It is further certified that she has independently reviewed the literature, performed all the tests, analyzed the results and critically discussed the findings in presenting data.

This is in partial fulfillment of the requirements for the ***Master's Degree in Analytical Chemistry in of University of Kerala.***

Kollam
31-05-2018

KOLLAM KERALA INDIA

Haseena
(M. Haseena)
Senior Scientist

KSCSTE - CENTRE FOR WATER RESOURCES DEVELOPMENT AND MANAGEMENT
ജലവിഭവ വികസന വിനിയോഗ കേന്ദ്രം
KSCSTE-CWRDM An Institution of Kerala State Council for Science, Technology & Environment, Govt. of Kerala
കേരള ശാസ്ത്ര സാങ്കേതിക പരിസ്ഥിതി കൗൺസിൽ സ്ഥാപനം, കേരള സർക്കാർ

14

CWRDM/ED/305-02-CCC 27 March 2018

From,
The Executive Director

To,
Dr. Sophia K Philip
HOD & Associate Professor
Department of Chemistry
Christian College Chengannur
Alappuzha, Kerala - 689122

Madam,

Sub: M.Sc. Project - reg
Ref: Your email dated 22-January-2018

With reference to the above email, we are pleased to inform you that CWRDM can provide facilities and guidance to **Ms. Donamol Sunny & Ms. Blessy Thomas, M.Sc. Analytical Chemistry** students, to do their project work at our Institute, for two months during April - May 2018 under the guidance of Dr. P S Harikumar, Head & Senior Principal Scientist, Water Quality Division. Please communicate their date of arrival to the concerned guide at the earliest.

Please note that the student has to pay an amount of Rs. 12000/- irrespective of duration of the project. This will cover for three months and for every additional month, student has to pay Rs. 2500/- month. The fee has to be paid before the start of the programme.

The Project work of Ms. Donamol Sunny & Ms. Blessy Thomas will under the sole guidance of Dr. P S Harikumar.

Yours Faithfully,

Anitha 27/3/18
(Dr. A B Anitha)
Executive Director i/c

Copy to:
Dr. P S Harikumar, Head & Senior Principal Scientist, Water Quality Division
Registrar, for issuing necessary proceedings

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Dr. P.S. Harikumar
Senior Principal Scientist & Head
Water Quality Division

CERTIFICATE

Certified that the work carried out as part of the dissertation work on **"Decontamination of soil polluted with endosulphan by using zero valent nano iron particles"** is based on the bonafide work done by Ms. Donamol Sunny, Christian College, Chengannur, Kerala University under my guidance in Water Quality Division, Centre for Water Resources Development and Management, Kozhikode and also no part thereof has been included in any other M.Sc project work submitted previously for the award of any degree.

(P.S. Harikumar)

11th September 2018

Kunnamangalam, Kozhikode-673571, Kerala, India | കുന്ദമംഗലം, കോഴിക്കോട്-673571, കേരളം, ഇന്ത്യ
E-mail: ed@cwrdm.org, registrar@cwrdm.org | Website: www.cwrdm.org
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TP/PD/T-14/18
09.10.2018

CERTIFICATE

This is to certify that **Mr. Akash Anand George, M.Sc Analytical Chemistry** student of Christian College, Chengannur, Alappuzha has successfully completed the Project Work entitled **"A COMPREHENSIVE STUDY OF THE REDUCTION EFFICIENCY OF RAW ILMENITE WITH WOOD CHARCOAL AS REDUCTANT"** in QC Lab of the Titanium Dioxide Pigment Unit of the Company at Chavara during the period from **02.05.2018 to 31.05.2018.**

He was found to be an industrious and motivated person with good conduct and character during the entire training period.

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Personnel Officer

AMPADY. S
Personnel Officer
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Sankaramangalam, Chavara, Kollam, Kerala

BONAFIDE CERTIFICATE

This is to certify that the dissertation entitled "**COMPARATIVESTUDYOF VARIOUS ANION EXCHANGE RESINS FORTHE EFFECTIVE REMOVALOF GADOLINIUM NITRATE FROMTHE MODERATOR SYSTEM OFADVANCEDHEAVYWATER REACTOR (AHWR)**",is carried outby Ms.SANJANA C S (Reg.No:-63616102009) submitted in partial fulfillment for the award of Degree of Master of Science in Chemistry, Christian College,Chengannur. This is a bonafide record of work done at the Water and Steam Chemistry Division, BhabhaAtomic Research Centre Facilities, Kalpakkam from March - June 2018.

This work reported herein does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on earlier occasion. The work reported herein is the professional work of Water and Steam Chemistry Division and this should not be published without prior permission from the competent authority.

Date : 08/06/18
Place: Kalpakkam

Dr. S. Velmurugan
Head
Water and Steam Chemistry Division
Bhabha Atomic Research Centre Facilities
Kalpakkam-603 102 (TN), INDIA

BONAFIDE CERTIFICATE

This is to certify that the dissertation entitled **"Evaluation of Corrosion Inhibition Efficiency of Octadecylamine on Carbon Steel Surfaces"**, is carried out by Ms.JITHINA M T(Reg.No:- . **63616102004**) submitted in partial fulfillment for the award of Degree of Master of Science in Chemistry, Christian College,Chengannur. This is a bonafide record of work done at the Surface Characterisation and Mass Transport Study Section, Water and Steam Chemistry Division, BhabhaAtomic Research Centre Facilities, Kalpakkam from March - June 2018.

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Date 28.06.18
Place: Kalpakkam

Dr. S. RANGARAJAN
Head
Surface Characterization and Mass transport
Study Section
Water and Steam Chemistry Division
Bhabha Atomic Research Centre Facilities
Kalpakkam-603 102 (TN), INDIA