

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), Sivakasi

(Affiliated to Madural Kamaraj University, Reaccredited with "A" Grade by NAAC, College with Potential for Excellence by UGC & Mentor Institution under UGC PARAMARSH)

NAAC SSR Cycle IV (2015-2020)

3.7. COLLABORATION

3.7.2. FUNCTIONAL MoUs WITH ONGOING ACTIVITIES

MoUs WITH OTHER INSTITUTIONS

2016-2017

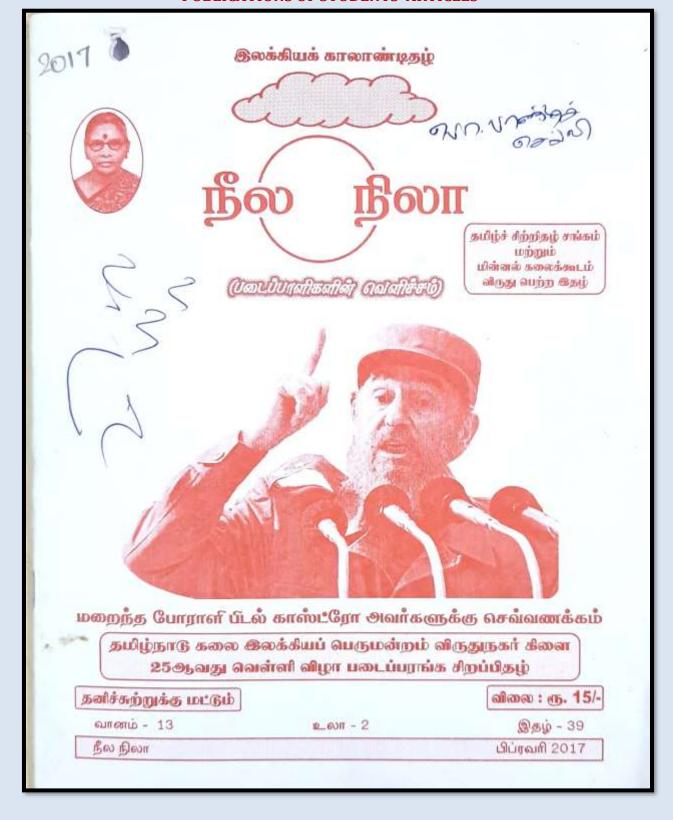


(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

Name of the Department : Department of Tamil
Name of the institution/ industry/ corporate house : Neelanila Publishers, Virudhunagar



PUBLICATIONS OF STUDENTS' ARTICLES



1976 முதல் 2008 வரை கியூபாவின் அதிபராக பதவி வகித்தார் காஸ்ட்ரோ.

சிவகாசி தி ஸ்டாண்டர்ட் ஃபயர் ஒர்க்ஸ் இராஜரத்தினம் மகளிர் கல்லூரி மாணவியர்களின் கவிதைகள்

முரண்

வானம் இருண்டது எங்கும் இருள்பரவியது... அழத் தொடங்கியது அழகான வானம் பெரிய பெரிய கண்ணீர்த்துளி அவை தாயின் மடியில் விழுந்தது... என்ன ஒரு அதிசியம்! பிள்ளை கண்ணீர் வடிக்க தாய் மனம் குளிர்ந்து வளம் பெறுகிறாள்..!

> - க. கிருஷ்ணவேணி, முதுகலை இரண்டாமாண்டு கணிதம்.

തുന്നുർപ്പം തമിനുതന്

எவ்வளவு தைத்தாலும் சேர்க்க முடியாத உடை பழைய நினைவுகள்.

വെന. பாண்டிச்செல்வி.

சந்தனம் பூசவில்லை இருந்தாலும் மணக்கிறது அப்பாவின் வியர்வை!

> பொ. பாண்டிச்செல்வி, முதுகலை இரண்டாமாண்டு கணிதம்.

என் தொட்டத்துக் கெணி

கேணி நிறைய மாரி நனைத்த நீர்... கேணி சுவற்றில் சின்னதொரு கிளை! தண்ணீரைத் தொட முயற்சி செய்து தோற்றுக் கொண்டிருந்தது அந்த எருக்கஞ்செடியின் கிளைகள்! கிளை ஒன்றும் விடாமல் தங்கள் கூட்டை கட்டி ஆடவிட்டிருக்குது அந்த தூக்கணாங் குருவி! உச்சியில் சூரியன் – அந்த நேரம் கேணி கேக்கும் சங்கீ தம்! தூக்கணாங்குருவி கூச்சலும் நீர் மேல் வந்து சலசலவென்று உள்ளே செல்லும் மீனின் சத்தமும்... கேணியைச் சுற்றி வளைத்த மரங்கள் – அதன் கிளைகள் ஆடும் சத்தம்... அந்த சத்தத்தை கேணி சத்தமில்லாமல் சங்கீ தமாய் கேட்டுக் கொண்டிருந்தது!

> - க. கீருஷ்ணவேணி, முதுகலை இரண்டாமாண்டு கணிதம்.

நீல நிலா

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பிப்ரவரி 2017

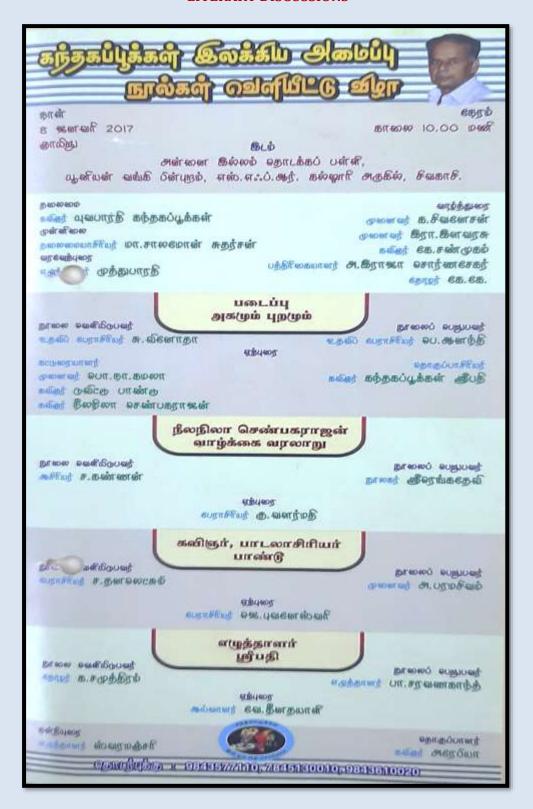


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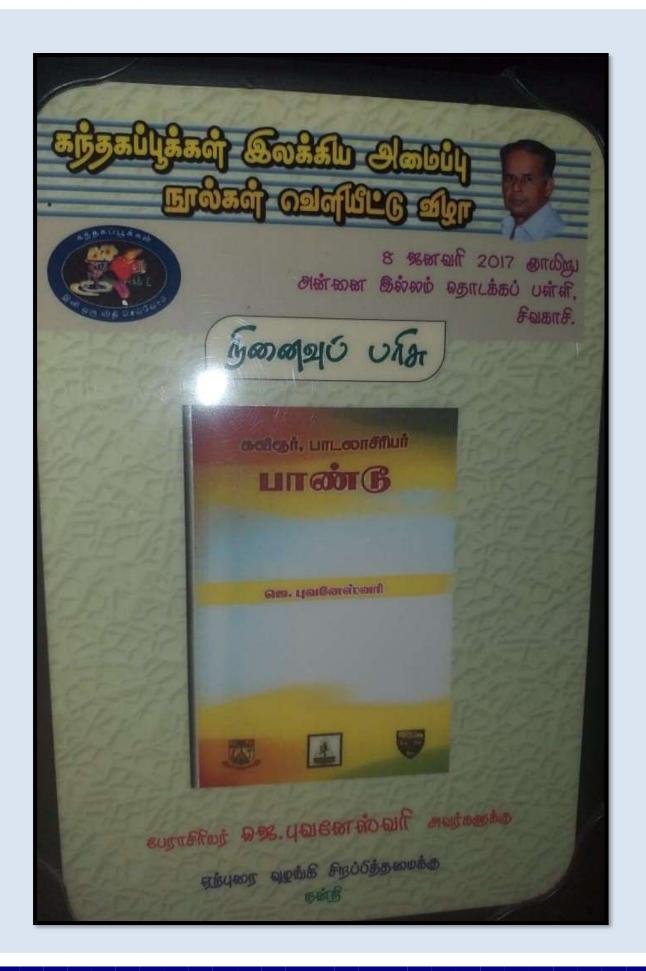
Name of the Department : Department of Tamil
Name of the institution/ industry/ corporate house : Kandhaga pookkal Ilakkiya amaipu,
(Kandhaga Pookal Literacy Organisation)
Sivakasi.



LITERARY DISCUSSIONS







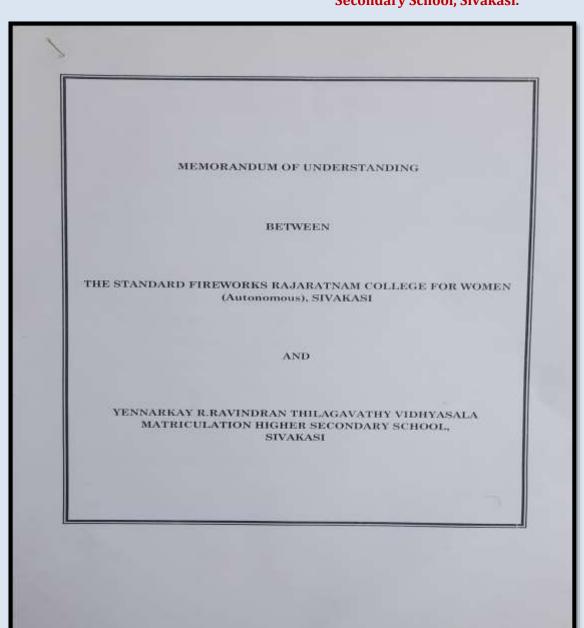


(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

Name of the Department : Department of Commerce SF

Name of the institution/industry/corporate house: Yennarkay R.Ravindran Thilagavathy

Vidhyasala Matriculation Higher Secondary School, Sivakasi.



DRAFT OF MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is executed

between

Management of The Standard Fireworks Rajaratnam College for Women (Autonomous), Sivakasi

and

Management of Yennarkay R.Ravindran Thilagavathy Vidhyasala Matriculation Higher Secondary School, Sivakasi

The Memorandum of Understanding covers collaboration in the following areas:

- Conducting jointly the Job Oriented Course on "Pre-School Education".
- 2. YRTV School teachers will handle the theory classes.
- Permit the students undergoing the course to have practical classes using Montessori equipments and teaching aids in YRTV School Campus.

The specific activities and cost of same would be worked out in detail keeping in mind the interest of both institutions.

The terms of Memorandum of Understanding can be modified with manual concurrence to suit the changing needs of the future as when such changes are warranted. The Memorandum of Understanding initially covers a three years period from August 2016. In case either of the parties decides to terminate the agreement before the said period, one month advance notice is to be given.

Executed on the Second day of August 2016 t Sivakasi.

Isasineha

PRINCIPAL

PRINCIPAL
The Sanator of Fire Works
Rejarations Coulege for Women,
STANATOR.

PRINCIPAL

YENNARKAY R. RAVINDRAM THULAGAVATHY VIDHYASALA MATRICULATION HIGHER SECONDARY SCHOOL, SIVAKASL

1. Witness

Dr. K. RAJESWARI
Associate Professor & Hoad
Department of Commerce
S.F.R. College For Women.
SIVAKASI - 626 123

2. Witness

Dr. M. JAVALAKSHMI M. D. M. Phil. Ph.D. Department of Commerce S.F.R. COLLEGE FOR WOMEN SIVAKASI - 826 123

3. Witness

(Mrs. L. MUTHU LATHA)

K.G. TEACHER

YRTV Mat. HA. See. School, STVAKASI.

JOB ORIENTED COURSE - PRE - SCHOOL EDUCATION

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(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

Name of the Department : Department of Chemistry Name of the institution/ industry/ corporate house : Pharmafabrikon, Madurai



pharma fabrikon

E-mail: window.fahrikon@gmail.com

26.08.2016

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is executed Between

Management of The Standard Fireworks Rajaratnam College for Women, Sivakasi

AND

PHARMAFABRIKON, Madurai

The Memorandum of Understanding covers collaboration in the following areas:

- Conducting inplant training in specific fields.
- Offering technical and academic consultancy.
- Utilizing resource persons periodically.
- 4. Any other activities that are deemed fit.

The specific activities and cost of same would be worked out in detail keeping in mind the interest of both the College and the company.

The terms of Memorandum of Understanding can be modified with mutual concurrence to suit the changing needs of the future as and when such changes are warranted.

The memorandum of understanding initially covers a period of FIVE years from the date of signature.

For PHARMAFABRIKON

(P.Ponrajan) Managing Partner For Standard Fireworks Rajaratnam College for Woman

Principal PRINCIPAL.
The Standard Fireworks Rajaratnam
College for Women,
SIVAKASI.

UNIT - I, 1/332, Otthappatti, Karuppayurani (PO), Madurai - 625 020. INDIA. Ph: 0452 - 653 5001, 97509 72052 Fax: 0452 - 242 9290



FIELD VISIT

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI.

Affiliated to Madurai Kamaraj University Reaccredited with 'A' Grade by NAAC & College with Potential for Excellence by UGC

Mrs. A.Aruna, B.Sc., Secretary



Dr.(Mrs.)D.Sasireka, M.Sc.,M.Phil.,Ph.D. Principal

Ref. No

01.08.2016

To

The Managing Director, Pharmafabrikon, Madurai.

Sir,

Sub: Field Visit to Pharmafabrikon-reg:

A batch of 48 students comprising I M.Sc and II M.Sc and two faculty members, Mrs. N. Uma Sangari and Dr. S. Shailaja, Assistant Professors of department of Chemistry are willing to visit your pharma industry to have an insight to the real working environment and various techniques adopted for the manufacture of pharmaceutical formulations on 03.08.2016. Kindly permit them to visit your industry.

Head of the Department

PRINCIPAL 1/8/16 PRINCIPAL

The Standard Fire Works Rajaratnam College for Women, SIVAKASI.

★ Enrichment with knowledge ★ Empowerment of women ★

Phone: 04562 - 220389 Fax : 04562 - 226695 E-Mail: sfrc@sfrcollege.org. Website: www.sfrcollege.org.



(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

Name of the Department : Department of Commerce SF
Name of the institution/ industry/ corporate house : Kumar Commercial Institute, Sivakasi.

DRAFT OF MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is executed

Between

Management of The Standard Fireworks Rajaratnam College for Women, Sivakasi

AND

Management of Kumar Commercial Institute, Sivakasi

The Memorandum of Understanding covers collaboration in the following areas:

- 1. Conducting the course jointly
- 2. Offering the training in long hand to short hand
- 3. Offering the training in short hand to long hand
- 4. Organizing the practicals and record preparation.
- 5. Any other activities that are deemed fit.

The specific activities and cost of same would be worked out in detail keeping in mind the interest of both the institutions.

The terms of Memorandum of Understanding can be modified with mutual concurrence to suit the changing needs of the future as when such changes are warranted. The memorandum of understanding initially covers a three years period from December 2016. In case either of the parties decides to terminate the agreement before the said period, one month advance notice to given

Executed on the Fifth day of <u>Decomber 2016</u> at Sivakasi.

PRINCIPAL

Dr. D. SASIREKA
PRINCIPAL,
The Standard Fireworks Rajaratnam
College for Women,
SIVAKASI.

PROPRIETOR/PRINCIPAL (Institute

1. Witness

Rajerwan

Dr.K.RAJESWARI
Associate Professor & Heed,
Department of Commerce,
S.F.R.Cellege For Months
SIVAKAS!

2. Witness

DERARTMENT OF CUMMERCE S.F.R. College for Women, SIVAKASI-626 123

3. Witness

K. TLENDREZ

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25. Sommanulusour Street VIRUNHUNDRUBE -

JOB ORIENTED COURSE - STENOGRAPHY

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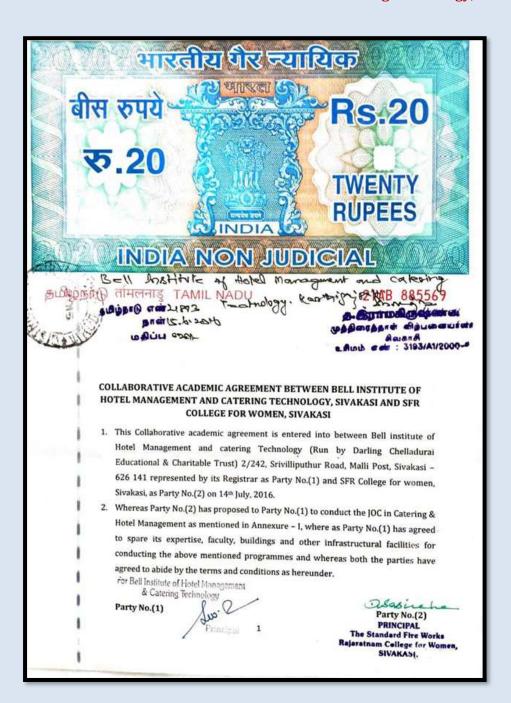


(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

Name of the Department : Department of Microbiology

 $Name\ of\ the\ institution/\ industry/\ corporate\ house:\ BELL\ Institute\ of\ Hotel\ Management$

and Catering Technology, Sivakasi



3. Promotion of Programmes

The Party No.(2) shall take up the responsibility of promoting the program among its students.

4. Programmes, Regulations, Syllabus and Scheme of Examinations

The length of the program is for 15 days (14 Classes + 1 Practical Examination). The schedule of dates will be proposed by Party No.(2) and mutually agreed upon by both the parties. The Party No.(1) shall conduct classes and examinations not excluding the above 13 days. Any absence by students will be communicated to Party No.(2). Any default of communicated dates by Party No.(2) shall be compensated at the discretion of Party No.(1)

The Party No.(1) shall conduct 3monthly test and a model practical examinations on specific agreed dates. The Party No.(1) shall forward the mark list to Party No.(2).

Attendances register of students to be maintained by both Parties. Party No.(2) will designate a responsible staff for communication with Party No.(1) on day to-day activities.

Party No.(1) will co-operate with Party No.(2) for setting up question papers for examinations.

5. Admission Procedure

The Party No.(2) shall admit students in the program and after scrutiny shall confirm admissions of candidates list to Party No.(1). Once the classes starts no amendment of student list is permitted by Party No.(2).

6. Issue of certificates

Any certificates regarding the completion of the course will be issued by Party No.(2).

7. Students Strength

It is agreed upon by both the parties to keep the student strength to a minimum of 50 and maximum decided by Party No.(2).

8. Learning Resources

It is the responsibility of Party N.(1) to make available necessary learning resources to the students. Notes will be framed by Party No.(1) and approved by Party No.(2). Any tools of the trade required are the responsibility of the students to purchase.

9. Conduct of classes

It is the responsibility of Party No.(2) to conduct classes and the practical's. The students should have secured minimum of 80% attendance.

10. Financial sharing Between Party No.(1) and Party No.(2)

The Party No.(2) shall collect the fees for the course and pay Party No.(1) Rupees Three Thousand Five Hundred Per students(Rs.3500/-) excluding transportation and outdoor duties. The fee shall be paid as soon as the completion of the 15- day course.

11. Validity of Agreement

This agreement shall come into effect from the date of signing and shall be in force for two academic years. i.e., 2016 - 17 & 2017 - 18 and expires on May 2018. Further the agreement can be renewed on both parties concern.

For Bell Institute Of Hotel Management & Catering Technology

fro. Principal

Party No.(1)

Party No.(2)
PRINCIPAL The Standard Fire Works Rajaratnam College for Women, SIVAKASI.

SELF EMPLOYMENT COURSE - CATERING TECHNOLOGY & HOTEL MANAGEMENT

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(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

Name of the Department : Department of English

 $Name\ of\ the\ institution/\ industry/\ corporate\ house: EBEK\ Language\ Laboratories\ Private$

Limited, Trichy





Memorandum of Understanding

By and Between

EBEK Language Laboratories Private Limited, Trichy

And

The Standard Fireworks Rajaratnam College for Women, Sivakasi







This Memorandum of Understanding (MOU) is made at Sivakasi on the First day of June, 2015.

By and between

M/s. Ebek Language Laboratories Private Limited, a company incorporated under the Companies Act, 1956, having its registered office at 68, Parvathi Ammal Nagar, Veereswaram, Srirangam, Trichy – 620 006, Tamil Nadu, represented by its Vice President, Mr. Neslyn Johnson as its authorised signatory, hereafter referred to as "Ebek".

and

The Standard Fireworks Rajaratnam College for Women, Thiruthangal Road, Sivakasi, Virudhunagar District, hereafter referred to as "The Institution", represented by its Principal, Dr. (Mrs.) D.Sasireka as its authorized signatory. hereafter referred to as "SFRCW".

Ebek and The Institution shall hereinafter be collectively referred to as "Parties" and individually as a "Party".

WHEREAS:

Ebek is the authorized Examination Center for Cambridge English Language Assessment (Cambridge English) for the conduct of the BEC Exams and is in the business of conducting English language training programmes under its trade mark "EBEK" and has acquired a reputation for providing spoken and written English Language communication classes of global competence.

The Standard Fireworks Rajaratnam College for Women, Sivakasi, was established in 1968. It is affiliated to the Madurai Kamaraj University. The Institution's unshakable mission is to empower rural women with communicative competence and employability potentials to compete in the global scenario and confront the challenges. SFRC's commitment to the cause of academic excellence through diligence has led to a number of academic innovations.

The Institution wishes to conduct BEC - Cambridge English Language Assessment (Cambridge English) to benchmark the language skills of their students to international standards. Hence, the Institution will partner with Ebek for the conduct of the BEC examination which is part of the Cambridge English Language Assessments and Ebek has agreed to the same subject to certain terms and conditions mutually agreed between the Parties. The Parties are desirous of recording the terms of the collaboration agreed to between them.

NOW, THEREFORE, in consideration of the mutual understanding and agreements set forth herein, the Parties hereto hereby agree as follows:







I. TERM

This MoU shall come into effect on this date and shall be valid for a period of three years ("Initial Term") unless otherwise extended in writing by the Parties or terminated in accordance with the terms hereof.

II. GRANT OF RIGHTS

The Institution hereby grants to Ebek the exclusive right to train and conduct the BEC Exams within the premises of the Institution and Ebek hereby accepts the same.

III. OBLIGATIONS OF EBEK

- 1. Ebek shall train and prepare students for the BEC Exams as required by the Institution.
- Ebek shall conduct the BEC Preliminary, Vantage and Higher Exams, Computer Based as well as Pen and Paper Based as applied for by the Institution.
- Ebek shall be responsible for the question papers and the complete organization and conduct of the BEC Exams on the test dates as per stringent rules laid by Cambridge English Language Assessment.
- 4. Ebek shall be responsible for the question papers after the conduct of the BEC Exams.

IV. OBLIGATIONS OF THE INSTITUTION

- The Institution agrees to register a minimum of 50 students for the Cambridge English: BEC Exams for each session applied for by the Institution.
- The Institution works towards making BEC as part of the curriculum for the students.
- The Institution shall collect all filled-in application forms and payments and hand over the same to Ebek before the deadline for applications, along with copies of College ID proof of students.
- The Institution shall provide the necessary venue arrangements for the conduct of the BEC Exams as required by Ebek.
- For the conduct of the Computer Based BEC Exams, the Institution shall provide Ebek with the necessary computer systems with LAN and internet connections (with system specifications as required by Cambridge English) and technical assistance throughout the conduct of the exams.
- The Institution shall provide sound proof classrooms for the conduct of the BEC Speaking Exam. This shall be made available for days requested by EBEK.







V. SUPPORT FROM EBEK

- Will organise a one day teacher training workshop which will help teachers in preparing themselves and students for the Cambridge English BEC Exams.
- Provide the Institution with quality assurance as required on the testing process.
- Work with the Institution as reasonably required on any other issues relating to teaching and testing English for its students.
- 4. Provide BEC preparation material free of cost to students who register for the BEC Exams.
- 5. Conduct BEC mock tests for students who register for the BEC Exams.
- 6. Provide the Institution with approval to use the Cambridge English Preparation Centre Logo in all publicity material, including the institution's website, subject to the Institution registering a minimum of 500 candidates a year for the BEC Exams. However, the Institution must seek Ebek's & Cambridge English's approval to ensure that the use of Cambridge English Preparation Centre logo is within the specified guidelines. The Institution can also be made an approved Cambridge Preparation Centre, subject to the institution registering a minimum of 100 students in a year for the BEC Exams.

VI. COMMERCIAL TERMS

 The commercials given below are the BEC Exam Fees. This fee shall be applicable till June this year and will change accordingly if Cambridge English changes the exam fee for BEC.

BEC Preliminary - Rs 2600

BEC Vantage - Rs 3300

BEC Higher - Rs 4300







VII. PAYMENT TERMS

- a. 100% payment shall be made at the time of submitting the BEC Exam Application forms.
- b. The fee decided for 2015 is applicable till June this year. There may be changes in the current or subsequent years depending upon the BEC exam fees set by the Cambridge English.

VIII. CONFIDENTIALITY

- Each Party shall keep confidential and shall not without the prior consent in writing of the
 disclosing Party copy or disclose to any third party the content of any documents or
 information (whether of a commercial, financial or technical nature or which is identified as
 being confidential) acquired or received in writing, orally or in any other tangible or
 intangible form from the other Party in connection with thisMoU, and such information will
 be referred to as "Confidential Information".
- 2. Confidential Information shall not include any information which (i) is known to the public; (ii) is lawfully acquired by the receiving Party; (iii) was known to the receiving Party without breach hereof; (iv) was or is independently developed by the receiving Party; or (v) is required to be disclosed by governmental or judicial order, in which case the Party so required shall give the other Party prompt written notice, where possible, and use reasonable efforts to ensure that such disclosure is accorded confidential treatment and also to enable the other Party seek a protective order or other appropriate remedy.

IX. TERMINATION

This MOU may be terminated:

- 1. By unanimous consent.
- 2. In the event of any lawful authority ordering the Parties to terminate this MoU.
- The Parties agree that this clause is exhaustive and the Parties shall terminate this MOU only in accordance with the terms hereof.







X. APPLICABLE LAW AND ARBITRATION

- 1. This Agreement shall be governed by Indian law.
- 2. Any dispute arising out of or in connection with this MoU, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration at Chennai, India, in accordance with the Indian Arbitration and Conciliation Act, 1996. The arbitration shall be conducted by three (3) arbitrators with each Party appointing an arbitrator and the two arbitrators so appointed appointing the third and presiding arbitrator. The language of the arbitration shall be English.
- No Party shall disclose to any third party the existence, nature, content, or outcome of any arbitration, or purported arbitration, brought in respect of this MOU.

The Vice-President of EBEK and the Principal of SFRC have signed this MoU on the First day of June, 2015, at Sivakasi.

The Principal, Dr. (Mrs.) D.Sasireka For The Standard Fireworks Rajaratnam College for Women, Sivakasi

Authorised The Mandard Fire Works
Rajaratnam College for Women.
Date: 1/6/15 SIVAKASI.

Dr. (Ms.) S.GEETHA HOD of Foolish

SFR College for Women
(Autonomous)
SIVAKASI - 626 123.

Vice President
Mr. Neslyn Johnson
For Ebek Language Laboratories Private
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BEC PRELIMINARY AND VANTAGE -CLASSES

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THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

Name of the Department

: Department of Botany

Name of the institution/industry/corporate house: EHEART (Eswar Health Education and

Research Trust) Eswar Institute of Complimentary and Traditional Medicine, Chennai

Institute of Complimentary and Traditional Medicine

[Eswar Health Education And Research Trust (MURANT)] 6/15, Ohri Salai, Mugappair East, Chennai- 600 037.

Mobile: 9940127201, E-mail: eheart2015@gmail.com Regd.No.:177/2015

MEMORANDUM OF UNDERSTANDING

BETWEEN

Management of the Standard Fireworks Rajaratnam College For women, Sivakasi

Management of EHEART's (Eswar Health Education And Research Trust)
Institute of Complimentary and Traditional Medicine, Chennai.

The Memorandum of understanding covers collaboration in the following areas:

- 1. Conducting and training the course in specific fields jointly.
- 2. Offering technical consultancy.
- 3. Utilizing resource persons periodically.

The terms of Memorandum of understanding can be modified with mutual concurrence to suit the changing needs of the future.

The Memorandum of Understanding initially covers a three years period from November 2015 to April 2017. In case either of the parties decides to terminate the agreement before the said period, one month advance notice is to be given.

Executed on this 25th day of November 2015 (25.11.2015) at Sivakasi.

Terms & conditions:

1. Standard Fireworks Rajaratnam college

- · Allotted students strength :55
- Teaching hours: 60 hrs/semester.
- Executing all academic facilities for the course.

Payment of tuition fees Rs.500/ for each student to Institute of Complimentary and Traditional Medicine, Chennal.

II. Institute of Complimentary and Traditional Medicine, Chennal.

- Deputing faculty on all Saturdays from 9.30 am -3.15 pm except on second Saturdays during Semester period.
- Setting three sets of question papers for Internal, one set of theory and one set of practical question paper for the End Semester Examination.
- Valuing answer scripts for theory & practical both for internal and End semester Examinations.

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The Standard Freworks Rajirationin
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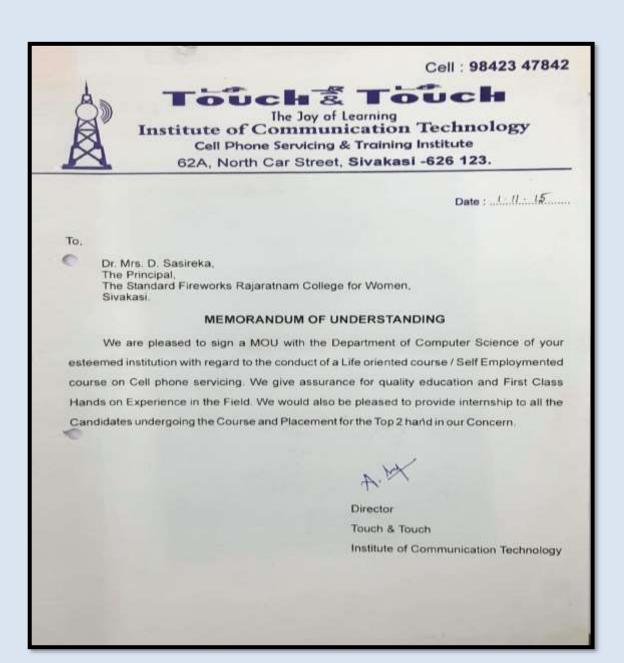
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Name of the Department : Department of Computer Science
Name of the institution/ industry/ corporate house : Touch & Touch, Cell Phone Servicing
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SELF EMPLOYMENT COURSE - MOBILE PHONE SERVICING

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THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

Name of the Department : Department of Physics

Name of the institution/industry/corporate house: Materials Research Centre, Coimbatore

MEMORANDUM OF UNDERSTANDING

BETWEEN



THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI

AND

MATERIALS RESEARCH CENTER, COIMBATORE

DRAFT OF MEMORANUM OF UNDERSTADING

This Memorandum of Understanding is executed

Between

Management of The Standard Fireworks Rajaratnam College for Women, Sivakasi

AND

Director, Materials Research Center, Coimbatore

The Memorandum of Understanding covers collaboration in the following areas:

- Conducting jointly the course and training in specific fields.
- 2. Offering technical consultancy.
- 3. Utilizing resource persons periodically.
- Organizing short term training programmes.
- 5. Any other activities that are deemed fit.

The specific activities and cost of same would be worked out in detail keeping in mind the interest of both the parties.

The terms of Memorandum of Understanding can be modified with mutual concurrence to suit the changing needs of the future as when such changes are warranted.

The Memorandum of Understanding initially covers a five years period from September 2014 to August 2019. In case either of the parties decides to terminate the agreement before the said period, one month advance notice to be given.

Executed on the ______ day of _September 2014 at Sivakasi.

S. Selvo scharapanton.

DIRECTOR

DR. S. SELVASEKARAPANDIAN
DIRECTOR
MATERIALS RESEARCH CENTER
200 - A, THIRUVALLUVAR NAGAR,
RAMANATHAPURAM,
COIMBATORE - 641 045, INDIA

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PRINCIPAL

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The Standard Fire Works
Rajaratnam College for Women,
SIVARASI.

1. Witness : N. Oyay Head of the Dept. of Physics

Head of the Dept. of Physics S.F.R. College for Women, Sivakush

Witness

Dr. G. Kallhu Ba Suhram enian Thangathan Reductational Trust Member

RESEARCH PUBLICATIONS

Impedance studies of a green blend polymer electrolyte based on PVA and Aloe-vera

S. Selvalakshmi, T. Mathavan', N. Vijaya', Selvasekarapandian, M. Premalatha, and S. Monisha

Citation; AIP Conference Proceedings 1731, 140044 (2016); doi: 10.1063/1.4948210

View online: http://dx.doi.org/10.1063/1,4948210

View Table of Contents: http://aip.scitation.org/toc/apc/1731/1

Published by the American Institute of Physics

Impedance Studies Of A Green Blend Polymer Electrolyte Based On PVA And Aloe-Vera

S.Selvalakshmi¹, T.Mathavan^{*1}, N.Vijaya^{*2}, Selvasekarapandian^{3,4}, M.Premalatha^{1,4}, S.Monisha^{1,4}

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*Materials Research Centre, Colmbatore, Tamilnadu.

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Abstract. The development of polymer electrolyte materials for energy generating and energy storage devices is a challenge

today. A new type of hieraled green electrolyte based on Poly-viryl alcohol (PVA) and Aloe-vers has been prepared by solution casting technique. The blending of polymers may lead to the increase in stability due to one polymer portraying itself as a mechanical stiffener and the other as a gelled matrix supported by the other. The prepared blend electrolytes were subjected to Ac impedance studies. It has been found out that the polymer film in which 1 gm of PVA was dissolved in 40 ml of Aloe-vera extract exhibits highest conductivity and its value is 3.08 × 10.4 S cm⁻¹.

Keywords: PVA, Aloe-vera, Ac impedance

INTRODUCTION

Ionic conductors are key compensats for many electrochemical applications, mainly in the field of energy conversion, for example, in photoelectrochemical (PEC) solar cells and fuel cells, in energy storage devices like batteries and in other technological applications like electro-chromic devices, super-capacitors, electrochemical sensors [1]. Several synthetic polymer hosts for solid polymer electrolyte application have been developed in the past, such as poly(ethylene oxide) [2], poly(propylene oxide) [3], poly (acrylomitrile) [4], poly(methyl methacrylate) [5], poly (vinyl chloride) [6], poly(vinylidene fluoride) [7], and poly (vinyl alcohol) [8]. The use of synthetic polymers has drawn much criticism lately due to their complicated synthesis, high costs, and safety issues [9]. To avoid these problems, the interests have been shifted over to biodegradable, abundantly available, non-toxic biopolymers or natural polymers. One such natural polymer is alsovera. Pharmaceutical studies like anti-fungal and anti-bacterial studies have been done for aloe-vera. The impedance study of the Aloe-vers leaves has been reported to evaluate the health status of the plant [10]. In the present study, solid blend polymer electrolyte based on PVA and Alce-vera has been synthetised and imperilled to impedance studies for device application. Blending of polymers is the most viable approach for the preparation of polymer electrolytes which has been adopted in this research work. Polymind alcohol (PVA) has excellentfilmforming enmisifying and adhesive properties. PVA is non-toxic and has high tensile strength and flexibility. The gol present in the leaf of Aloe-vera has electrical properties and it can generate electricity [11]. PVA having high tensile strength can act as a mechanical stiffener and Aloe-vera extract serves as the golled matrix in the electrolyte. The prepared green polymer electrolytes were characterized by an impedance spectroscopy.

Experimental Details:

One gram of Poly vinyl alcohol (PVA) was dissolved in different quantity of Aloe-vers extract to formulate the green blend polymer films. The amount of PVA was kept fixed as 1 gm and the volume of Aloe-vers extract was taken as 10 ml, 20 ml, 30 ml, 40 ml, 30 ml and 60 ml.

The gel present in the leaf of Aloe-vers was detached and was crushed finely in the mixter. The gelatinous solution was double filtered and I gm of PVA was added to the extract. The mixture was magnetically stirred continuously for 36 hours

DAT Solid State Physics Symposium 2015 AIP Conf. Proc. 1731, 140044-1-140044-3; doi: 10.1063/1.4948238 Published by AIP Publishing, 978-0-7254-1378-0-\$3000

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International Research Journal of Engineering and Technology (IRJET)

Volume: 03 Issue: 07 | July-2016

www.lrjet.net

e-ISSN: 2395 -0056

Vibrational, Electrical and Optical Studies on Pectin- based Polymer Electrolyte

S.Kavitha¹, N.Vijaya¹, R.Pandeeswari¹, M.Premalatha²

Department of Physics, S.F.R. College for Women, Sivakast-626123, Tamil Nadu, India

Materials Research Center, Colmbatore-641045, Tamil Nadu, India

Abstract - This work presents the synthesis and characterization of biopolymer pectin - based polymer electrolyte. Proton conducting polymer electrolytes consisting of pectin as host polymer and ammonium nitrate (NH4NOs) as complexing sait in different compositions have been prepared by solution casting technique using distilled water as solvent and characterized by FTIR, AC Impedance spectroscopy and IIV-Visible spectral analyses. The FTIR analysis reveals complexation behaviour of the electrolytes. The ionic conductivity of pure pectin is found to be 5.15×10° S cm1 at ambient temperature, The highest conductivity of 6.64×105S cm² has been obtained for the polymer electrolyte with 70 mol% pectin and 30 mol% NH4NO; at ambient temperature. The conductivity of the electrolyte increases with increasing temperature for all compositions, UV- Visible analysis indicates that the bandgap energy decreases with the addition

Key Words: biopolymer, FTIR, ionic conductivity, activation energy, modulus spectra, band gap energy.

1. INTRODUCTION

Solid polymer electrolytes (SPEs) are an important class of materials due to its application for the development of fuel cells, solid state batteries, sensors and electrochemical devices [1]. SPEs have the dimensional stability. processability, flexibility, electrochemical stability, safety and long life. So it is anticipated to replace the established organic sol-gel electrolyte [2]. Most of the SPEs have been developed using synthetic polymers, such as PVA [2], PVP [3], PAN [4], etc. The proton-conducting polymer electrolytes. have received a great deal of interest because of their unique application as solid electrolytes in the electrochemical devices.

Recently, research on new materials from renewable sources as the possible electrolyte host has grown vigorously, since synthetic polymers are obtained from finite sources and are harmful to the environment. Natural polymers are well known for their biodegradation properties, richness in nature and low cost. The use of natural polymers in electrolytes could overcome the main shortcoming of synthetic ones, which are mostly insoluble in the solvents [5]. Generally, the addition of inorganic salts into a polymer matrix can improve its conductivity. The

biopolymer pectin is a polymer of natural origin. Because of its excellent biodegradable and biocompatible nature, it is used for eco-friendly biodegradable applications in the pharmaceutical and biotechnology industry. It has been used successfully for many years in the food and beverage industry as a thickening agent, a gelling agent and a colloidal stabilizer. Pectin is commercially extracted from different citrus products like apple, pomace, and oranges under mildly acidic conditions [6]. It consists chiefly of partially methoxylated polysaccharide. It is water soluble with fairly good bio-degradable nature which can be exploited for designing polymer films. Ammonium salts are very good proton donors as per the literature survey [7]. Ammonium nitrate (NH₆NO₃) is a white crystalline solid at room temperature and pressure. Commonly, it is used in agriculture as fertilizer [8]. The present study is focused on the preparation and characterization of pectin doped with NH4NOs polymer electrolyte films.

2. EXPERIMENTAL

Polymer electrolytes have been prepared with pectin (Tokyo Chemical Industry Co Limited, Japan) and NH4NO3 (Spectrum, India) of various compositions such as (100:0). (90:10), (80:20), (70:30), and (60:40) in molar ratios using distilled water as solvent by solution casting technique. Appropriate quantities of pectin and NH4NO are dissolved in distilled water and the mixtures are stirred continuously in a magnetic stirrer for two days to get homogeneous solution. Finally, these solutions are casted in polypropylene petri dishes and evaporated at 50 °C in hot air oven. Free standing films of thickness of 0.003833-0.0098 cm have been obtained after 24 hours.

The FTIR spectra for polymer electrolytes have been recorded in transmission mode using a SHIMADZU-IR AFFINITY-1 spectrophotometer in the frequency range (400 4000 cm⁻¹). The electrical measurements have been performed on the electrolyte films in the frequency range of 42 Hz -1 MHz by applying 1 V sinusoidal signal over the temperature range from 303 K to 333 K by sandwiching them between aluminum blocking electrodes using HIOKI 3532 -50 LCR HI-Tester Interfaced with a computer. The UV-Vis spectra are obtained from the UV-2400 PC series spectrometer for the samples within 200-900 nm range of UV- spectrum.

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(B) CHANA

ORIGINAL PAPER

Proton-conducting biopolymer electrolytes based on pectin doped with NH₄X (X=Cl, Br)

N. Vijaya¹ - S. Selvasekarapandian² - M. Sornalatha² - K.S. Su jithra² - S. Monisha²

Ratiowed: 30 August 2016 (Roward: 25 September 2016 / Acceptal: 29 September 2016 © Springer-Verlag Berlin Hadelberg 2016

Abstract Research has been undertaken to develop polymer electrolytes based on biodegradable natural polymers such as cellulate acetate, stands, gelatin, and chitosan, which are being used as polymer hosts for obtaining new polymer electrolytes for their applications in various electrochemical devices such as hateries, sensors, and electrochromic windows. Pectin is a naturally available material which is extracted from the skin of citrus fruits. Pectins, also known as pectic polysaccharides, are rich in galactumoic acid. The present study focuses on the proton-conducting polymer electrolytes based on the hispolymer pectin doped with animonium chloride (NH₂Cl) and animonium brounide (NH4Br) prepared by solution casting techrique. The prepared membranes are characterized using XRD, FITR, and AC impedance techniques to study their complexation behavior, amorphous nature, and electrical properties. The conductivity of pure pestin membrane has been found. to be 9.41 × 10⁻⁷ S cm⁻¹. The polymer systems with 30 mol% NH₆Cl-doped pects and 40 mol% NH₆Br-doped pectin have been found to have maximum ionic conductivity of 4.52 × 10⁻⁶ and 1.07 × 10⁻¹ S cm⁻¹, respectively. The conductivity value has increased by three orders of magnitude compared to pure pectin membrane. The die lectric behavior of both the systems has been explained using dielectric permittivity and electric modulus spectra.

Keywords Biopolymer - Polymer electrolyte - Amorphous lonic conductivity - Di electric permittivity

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Introduction

Polymer electrolytes play an important role as solid electrolyte in solid state devices. Polymer electrolytes have several advantages over their liquid counterparts such as reduced weight, no internal shorting, no leakage of electrolyte and non-combustible reaction products at the electrode surface, mechanically stable, and very flexible for packaging. An extensive research has been carried out to develop polymer electrolyes with appreciable ionic conductivity at room temperature, good mechanical and thermal stability in order to utilize them for solid state applications. Most of the polymer electrolytes have been developed using synthetic polymers such as poly(ethyleneoxide) (PEO), poly(vinylationol) (PVA), poly(vinyl pyrnolidane) (PVP), and poly(ethylene glycol) (PBG) for their applications in various electrochemical devices. Proton-conducting polymer electrolytes have their possible applications in various electrochemical devices such as batteries, fuel cells, supercapacitors, and electrochronic windows [1-4]. Recently, research is being undertaken to produce produc & from naturally available materials to avoid the environmental issues is the field of polymer electrolytes. Biodegradable natural polymers that have already been used among others. are polysacchandes like cellulose acetate [5, 6], starch [7-9], gehtin [10, 11], and chitonan [12-14] for obtaining new polymer electrolytes for their applications in various electrochemical devices. Biopolymer agar-based electrolytes [15-17] have also been reported.

Pertin, a naturally available material, is a polysaccharide that is largely present in the cell wall of plants [18]. Pectins, also known as pectic polysaccharides, are rich in galactionnic acid. Homogalactionnan is a linear chain of 1,4-linked acidgalactopyranoxylumnic acid residues, in which some of the carboxyl groups are methyl esterified [19]. At present, apple pomace and cittus peels are the main sources of commercially

Published orline: 12 October 2016



Journal of Non-Crystaline Solids 453 (2015) 131-140



Contents lists available at ScienceDirect

Journal of Non-Crystalline Solids

journal homepage: www.elsavier.com/locate/j noncrysol



Review

Investigations on proton conducting biopolymer membranes based on tamarind seed polysaccharide incorporated with ammonium thiocyanate



M. Premalatha Ab, T. Mathavan Ax, S. Selvasekarapandian bx, S. Monisha Ab, D. Vinoth Pandi C, S. Selvalakshmi bd

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ARTICLE INFO

Article bilency. Received 5 July 2016 Beceived in revised form 21 Aurust 2016 Acopted 6 October 2016 Available online soos

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ABSTRACT

Naturally available materials such as biopolyment and polymersher doshave general much attention in the development of polymer elect onlytes due to its brodge aliability, film forming nature and non-tracicity. The proton graduating hispolymen membranes have been propered by polysaccharides, tamarind seed polysaccharide (TSP) with different conceptrations of ammorison this questo (NH₄SCN) as doport. Distilled water has been used as a solvent and solution quoting technique has been employed to propose the biopolymer membranes. The propered biopolymer membranes have been characterized by different techniques such as X-ray diffraction. (KID), Fourier transform informed (FTIR) spectroscopy, differential squeeing color instry (DSC), AC-impedance spectroscopy and transference number measurement (TNM). From XIO coulds, the crystalline or amorphous nahave of the biogodymer membranes with increasing self-concentration (NH,SCN) has been studied. The complex firmation between the biopolymer-TSP and NH, SCN has been investigated by IT IX analysis. The glass insention temperature of the proper of happay more mediannes has been found using DSC technique. The highest conducted by $2.28 \times 10^{-4} \, \mathrm{S}\,\mathrm{cm}^{-1}$ for the composition of 1 g TSP; $0.4 \,\mathrm{g}\,\mathrm{NH}_{\rm L}\mathrm{S}\mathrm{N}$ at ambient temperature, which has become taked by K -imposed or spectroscopic studies. The ϕ relation of ions within the bis polymer membrane has been professed by TNM. The primary proton hattery has been combuded with the highest conducting membrane 1 g TSP: 0,4 g NFLSCN, its open densit voltage is 1.51 V. The discharge characteristics of the factory for a lead 1 MC) has been explained. The present investigation confirm what the NH₂SCN dependTSP inopolyment membrane has get the exampled proper tim required for the elect rechemical device applications

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Corresponding authors Fradiodrene: tjm:rhavn@gm&lom (T. Mahavo), wkaspardar@vdffred.om (S. Salatekaspardar).

Applied Polymer

Biopolymer agar-agar doped with NH₄SCN as solid polymer electrolyte for electrochemical cell application

S. Selvalakshmi, N. Vijaya, S. Selvasekarapandan, M. Premalatha?

Department of Physics, S.F.R. College for Women, Svekasi, Tend Nadu 626123, India.

Metertals Research Center, Coimbetoni, Tamil Nedu 641 045, India.

Correspondence to: S. Seherwissrapendian (E-mail: selaregenden@redffmail.com)

ABSTRACT: A new polymer electrolyte hased on the hispolymer Agus Agus doped with ammonium thiocyanate (NH4SCN) has been prepared and characterized by FTIR analysis, X-ray diffraction measurements, AC impedence spectroscopy, transference number measurements, and DSC analysis. The founier transform infrared analysis confirms the complex formation between agar and NH,3CN. The amorphous nature of the polymer electrolyte has been revealed from X-ray diffraction analysis. The highest ionic conductivity has been observed for the sample of composition 1:1 between Agar and NH₂SCN. As a function of temperature, the ionic conductivity of this sample exhibits. Arthenius behavior increasing from 1.03 × 10⁻² S cm⁻¹ at antisent temperature to 3.16 × 10⁻² 5 cm⁻¹ at 343 K. The teansference number has been estimated by the dc polarization method, and it has been proven that the oneducting species are predominantly cations. Using the highest conductivity polymer electrolyte, solid state electrochemical cell has been fabricated and cell pummeten are reported © 2017 Why Periodicals, Inc. J. Appl. Polym. Sci. 2017, 194, 44702.

KEYWORDS: amorphous biodecradable delectric properties differential scentino calcrimetry class transition

Received 8 January 2016; accepted 7 November 2016. DOI: 10.1002/app.44702

INTRODUCTION

A significant change is occurring in the global polymer industries. Development of a new generation of biological polymers, polymers derived from renewable resources, is progressing rapidly. In this polymers-based world, there are many applications for energy generation and storage where plastics are used with fibrication and are not eco-friendy. The widespread usage of such products has produced toxic pollution. The commercial batteries and electronic devices that we use today employ electrolytes which are high in conductivity, but are hazardous and nonbindeg adulte, resulting in a great menace to the environment and living species. Since two decades, different polymeric electrolyte systems have been extensively studied and most of them are based on poly(ethylene oxide),2 poly(vinyl pyrrolidore),2 poly(vinyl akohol) (PVA),4 poly(acrylonitrile),3 poly(methyl methacrylate),4 poly(vinyl chloride)," and other synthetic polymers.

Recently, regardners all over the world have started focusing on proton conducting polymer electrolyte for energy storage deviues.*11 Additionally, they have started to prepare co-friendly biodegradable biobased polymer electrolytes.**2 The biobased polymers are the polymers derived from the naturally occurring renewable assumes. Those bio-based polymer electrolytes are

electrically efficient, asst-effective, and eco-friendly. These advantages have made the biobased polymer electrolytes a promising substitute for synthetic polymers in fuel cells. These electrolytes are also used in solid state drylors, electrochromic devices and dye semilized solar or Is.16

Among satural polymers, polysaccharides are the best cardidates due to their film forming capability and abundance in nature.17 Starch, celulose, chitosan, and agar-agar are some of the natural polymers. Noor and Isa18 have reported proton conductivity valare of 6.48 × 10⁻⁶ 5 cm⁻¹ for carboxy methylic chalore doped with ammonium this cyanate. Whier and Arof** have reported conductivity value of 3.89 ± 0.79 × 10 " 5 cm 1 for Santh/Chitomat-NH₄NO₂ polymer electrolyte. Ng and Mohamad²⁰ have presented. proton conductivity value of 9.93 ± 1.90 × 10⁻³ S cm⁻¹ for planticised Chitoan doped with NH NO,. Proton conductivity value of 1.02 × 10⁻³ S cm⁻¹ for Cellalose acetate/NH₂NO₂ has been reported by Monisha e al. 21 Riopolymer electrolyte based on Cellubuse acetate in combination with NH4SCN exhibiting proton conductivity of 3.31 × 10⁻⁶ 5 cm⁻¹ has been reported by Monisha et al. The loosely bound proton of the ammonium ion is responsible for conductivity in these polymer complexes. It is observed that the ionic radii of NO, and SCN are 1.96 A and 193 Å, expectively, with meager difference and hence doping

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J APPL POLYM SCI 2017, DOI:10:10:03/APP+4702

Characterization of proton conducting blend polymer electrolyte using PVA-PAN doped with NH₄SCN

M. Premalatha, T. Mathavan', S. Selvasekarapandian, F. Kingslin Mary Genova', and R. Umamaheswari

Citation: AIP Conference Proceedings 1731, 070032 (2016); doi: 10.1063/1.4947864

View online: http://dx.doi.org/10.1063/1.4947864

View Table of Contents: http://aip.scitation.org/toc/apc/1731/1

Published by the American Institute of Physics

Characterization of proton conducting blend polymer electrolyte using PVA-PAN doped with NH₄SCN

M.Premalatha^{1,2}, T. Mathavan^{1,*}, S.Selvasekarapandian², F.Kingslin Mary Genova^{3,*}, R.Umamaheswari³

¹ PG &Research Department of Physics, N.M.S.S. Vellaschamy Nadar College, Madurat-625 019, India ² Materials Research Center, Coimbatore-641 045, India. ³ Department of physics, S.F.R. College for Women, Sivakast-626 128, India *Email: pmathgram@smail.com/kineslin.senova20@smail.com/

Abstract. Polymer electrolytes with proton conductivity based on blend polymer using polyvinyl alcohol (PVA) and poly acrylo nitrile (PAN) doped with ammonium thiocyanate have been prepared by solution casting method using DMF as solvent. The complex formation between the blend polymer and the salt has been confirmed by FTIR Spectroscopy. The amorphous nature of the blend polymer electrolytes have been confirmed by XRD analysis. The highest conductivity at 363 K has been found to be 3.25 x 10⁻⁸ S cm⁻¹ for 20 mol % NH_eSCN doped 92 SPVA.7.5PAN system. The increase in conductivity of the doped blend polymer electrolytes with increasing temperature suggests the Arrhenius type thermally activated process. The activation energy is found to be low (0.066 eV) for the highest conductivity annule.

Keywords: FTIR, XRD, AC impedance, activation energy

INTRODUCTION

In the field of electrochromic energy devices such as batteries, fuel cells etc., proton conducting polymer electrolytes play a essential role because of its mechanical and electrical properties [1]. Various methods have been adopted to improve the electrical, mechanical and electrochemical properties polymer electrolytes. Among the various methods, Polymer blending is the most promising way to improve these properties which is a mixture of structurally different polymers. There are many reports available based on PVA-PVP [2], P[VdF-HEP]- PVAc[3], PVAc-PMMA[4], PVdF-PMMA[5] and so on PVA is a semi crystalline polymer containing hydroxyl group attached to methane carbons which can be a source of hydrogen bonding. PAN is a synthetic, semi crystalline organic polymer resin which is a common substitute for wool in clothing and home famishings. It is already reported that the molecular weight of 92.5%PVA: 7.5% PAN exhibits the conductivity of 1.13 × 10" S cm1 at room temperature [6]. In this work, proton conducting polymer blend electrolyte based on PVA-PAN doped with ammonium thiocyanate (NH, SCN) is synthesized and characterized Ammonium salts have already been reported as a good proton donors to the polymer matrix [7].

EXPERIMENTAL TECHNIQUE

Blend polymer electrolytes are prepared with optimized compositions of 92.5% PVA(MW 1,25,000): 7.5 % PAN (MW 1,40,000) and various compositions of ammonium thiocyanate using dimethyl formamide (DMF) as solvent by solution casting technique. 92.5% weight of PVA is stirred in DMF at 60°C for 3 hours and after its complete dissolution, 7.5 % weight of PAN is added and stirred for 2 hours after which the ammonium salt is added. The mixture is stirred till it becomes homogeneous. Then it is poured in the petri dish and evaporated at 60°C in vacuum oven. Free standing film is obtained after 48 hours. Films obtained with 5 mol%, 10mol %, 15 mol%, 20mol% and 25mol % by weight of ammonium thiocyanate. Then the film is carefully removed from the petridish and sealed in an airtight cover. Then the prepared films were subjected to Fourier transform infrared spectroscopy (FTIR) using SHIMADZU-IR Affinity-1 spectrophotometer. The XRD patterns were recorded at room temperature using a XPERT-PRO Diffractometer with Cuku radiation at 40 KV and 30 mA in the 28 range of 10 -80'. The electrical properties of the films were

TART Solid State Physics Symposium 2015
AIP Conf. Proc. 1711, 070032-1-070032-5; doi: 10.1062/1.4047854
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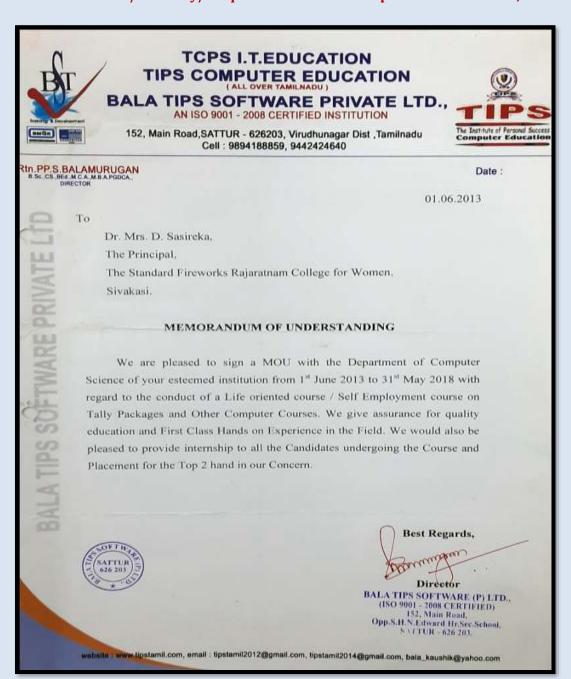
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THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

Name of the Department : Department of Computer Science Name of the institution/ industry/ corporate house : Bala Tips Software Pvt. Ltd., Sattur



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THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

SIVAKASI - 626 123.

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

Name of the Department Name of the institution/industry/corporate house: Viruthunagar District Cluster of

: Department of Mathematics **Colleges Joint Faculty Programme in Mathematics**

Virudhunagar District Cluster of Colleges Joint Faculty Programme in Mathematics Memorandum of Understanding

This Memorandum of understanding entered into 20th June 2011 between the Principals of all Arts and Science Colleges in Virushungur District affiliated to Madural Kamaraj University, Madural List of Colleges:
3. S.F.R.College for Women, Sivakesi (Co-ordinator)

- 2. A.N.J.A.Colluge, Sivakusi.
- 3. V.H.N.S.N.College, Virudhuneger.
- 4. V.V.V. College for Women, Viruchunager.
- 5. S.R.N.M.College,Satter
- 6. S.B.K.College, Arappakottai.
- 7. Devanger Arts College, Aruppukettai.
- 8. Sri Kaliswari College, Sivakani.
- 9. Rajapatayan Rajus' College, Rajapalayam.
- 10. A.K.D.R.College for Women, Rajapalayam.
- 11. V.P.M.M.College for Women, Krishnankoil.
- 12. Kalasalingam Arts and Science College, Krishnankoll.

Where as the colleges harele they are mutually agreed to enter into the organisation of a programme named as "The Virudhungar District Cluster of Colleges Joint Faculty Programme in Mathematics' and further decided to make into writing of this document for better understanding and gursuing programme in their colleges.

The Brians are as follows:

- . The Standard Fireworks Rajarathman College for Women, Sivakani, will be the co-ordinator for this programme
- In the beginning of every neademic year HODs of Department of Machematics in all the member colleges will meet at S.F.R.College for Women, Sivakusi during the month of June to chalk out the programmes for that academic year.
- Each College will take care of one programme in that scademic year.
- In the absence of HODs, way senior faculty member from the Department should attend the meeting.
- · The Programmes will be conducted only on afternoon of Saturdays.
- All or atleast a minimum of five II PG students scoompanied by faculty members from the colleges will attend the programmes without fail, M.Phil students can atso join
- . Traching faculty from those colleges which do not offer PG course in Mathematics may attend all the programmes
- . One day programme can be armaged only once in every year and the member colleges can use this opportunity in rotation. Only for this programme, the registration fee of Rs.50/- can be collected from the students. No registration foe for any other programme conducted under the barner of "Virudhanagar District Cluster of Colleges Joint Faculty Programme in Mathematics'
- All the programmes are atadents oriented inter collegiate quiz, guest lectures, paper presentation by the students, mathematical rangelli, dumb-C, model display and other innevative useful programmes.

- · Occasionally exhibitions or model display may be conducted in any one of the colleges and students from other colleges (UG & PG) and schools and public in Virudhanagar district may be the viewers,
- To create awareness of the great Indian Mathematician Srinivasa Ramanujan, every year one inter collegiate programme may be conducted in any one of the member colleges during the Birth Anniversary of Ramanujan (during December).
- · At the end of the academic year, valedictory function will be conducted in any one of the member college. In that programme feed back regarding the programmes conducted in the concerned scademic year will be collected from the students and faculty and it will be scrutinized in the next HODs meeting.
- · In case of retirement of any HOD, the college concerned will conduct a cluster college programme on its premises to felicitate the retired HOD. HODs or atleast few figulty members from other member colleges must attend the meeting.
- · New colleges in Virsidhunagar district can register as members in this organisation as and when they launch UG / PG course in Mathematics.
- · Exit Policy: If any college feels like withdrawing their membership from this organisation they must inform the matter to the Principal of S.F.R.coflege, Sivakasi in the end of the academic year and the same will be discussed in the HODs meeting at S.F.R. College, Sivakasi during June of the next academic year to pass a resolution on it.

This incontractum of understanding is agreed upon by the Principals of all the member coffeges. In witness there of the Principals of all the coffeges have signed on the

Ne mentioneu.

1. For S.F.R.College for Women, Sivaisasi (Co-ordinator).

Priocipal

S.F.R.College for Women Siyakasi

FRINCIPAL. The Standard Fireworks Rajaratoam College For Women SIVAKASL

2. For A.N.J.A.College, Sivakasi.

Principal

Ayya Mader Janobi Armod College SIVAKASI - 826 124. A.N.J.A.College

Sivakasi.

3. For V.H.N.S.N.College, Virudhunagar.

Principal

PRINCIPAL

PRINCIPAL

V.H.N.S.N.Collegermonthyragan Hands Nadard Virudhunggar, SCHTURKHEADA WADAR COLLEGE

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4. For V.V.V. College for Women, Virudhunagar.

V. Verslage and Callery For Wome Principal erushanagar romma removed

V.V.V. College for Women Visited States of the

Virudhunagar,

SEMINAR AND GUEST LECTURE

From

The Principal, S.F.R.C. Sivakasi.

The Principals of the Cluster Colleges

Dear Sir / Madam,

Sub: The S.F.R College for Women, Sivakasi. - Cluster of Colleges Joint Faculty Programme in Mathematics - Heads of the Department Meeting - 2016-17-Reg.

We would like to inform you that the Virudhunagar District Cluster of Colleges meet will be held in our college on 2.07.2016. We kindly invite the Heads of the Department of Mathematics to attend the Programme. Any other staff attending the meeting should come with the information about the activity

Agenda:

Planning the Programme schedule for the Academic year 2016-2017.

Date : 2.07.2016. Time : 2.30 p.m Venue: Room no 23

Thanking You,

S. Heenakeh

H.O.D. of Maths & Convenor of Cluster of Colleges (Co-ordinator)

Virudhunagar District Cluster of Colleges Joint Faculty Programme in Mathematics PRINCIPAL

The Standard Fire Works Rajaratnam College for Women, SIVAKASI.

Copy to: 1. The Principals of the Cluster Colleges.

The Heads of the Department of Mathematics of the Cluster Colleges.

To
The Head,
Department of Mathematics,
A.K.D.R. College,
Rajapalayam.

Dear Madam,

Sub: Intimation of the number of students attending the Cluster Programme at your College on 6.8.16.

We are glad to inform you that II M.Sc. Maths students accompanied by our staff Mrs.P.Kaliswari, Assistant Professor of Mathematics will attend the "Guest Lecture Programme" arranged under the auspices of VNR district Cluster of Colleges Joint Faculty Programme in Mathematics at your college on 6.8.16.

Thanking You,

Yours truly,

P. Kelling

Staff in-charge

S. Hemabili

HOD

PRINCIPAL

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKAS (...

Affiliated to Madurai Kamaraj University

Reaccredited with 'A' Grade by NAAC & College with Potential for Excellence by UGC

Mrs. A.Aruna, B.Sc., Secretary



Dr.(Mrs.)D.Sasireka, M.Sc.,M.Phil.,Ph.D.

Principal

Ref. No.

01.09.2016

To

The Head, Department of Mathematics,, Sri Ramasamy Naidu Memorial College, Sivakasi.

Dear Sir,

Sub: Intimation of the number of students attending the Cluster Programme at your College on 3.09.2016.

. . . .

We are glad to inform you that 22 II M.Sc. Maths students accompanied by our staff Mrs.U.Muthumari, Assistant Professor of Mathematics will attend the 'Guest Lecture' arranged under the auspices of VNR district Cluster of Colleges Joint Faculty Programme in Mathematics at your college on 3.09.2016.

Staff in-charge

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* Enrichment with knowledge * Empowerment of women *

Phone: 04562 - 220389 E-Mail: sfrc@sfrcollege.org.
Fax: 04562 - 226695 Website: www.sfrcollege.org.

To

The Head,

Department of Mathematics,

Sri Kaliswari College,

Sivakasi...

Dear Sir,

Sub: Intimation of the number of students attending the Cluster of colleges Joint Faculty Programme.

We are glad to inform you that 22 II MSc students accompanied by our staff

Mrs.A.Mydeen Bibi, Assistant Professor of Mathematics will attend the Guest Lecture at your college on 07.01.2017 at 2 pm.

Thanking you

Yours truly,

Staff-in-charge

S. Heenekh_

Principal

To

The Head, Department of Mathematics, AJ College, Sivakasi.

Dear Sir,

Sub: Intimation of the number of students attending the Cluster Programme at your College on 4.2.17.

We are glad to inform you that 24 II M.Sc. Maths students and 1 I M.Sc Maths accompanied by our staff Mrs.SP.Nandhini, Assistant Professor of Mathematics will attend the "Quiz Competition" arranged under the auspices of VNR district Cluster of Colleges Joint Faculty Programme in Mathematics at your college on 4.2.17.

Thanking You,

Encl: List of Participants

Yours truly,

Staff in-charge 5 Har h.

PRINCIPAL

From

The Principal, S.F.R C, Sivakasi,

To

The Principals of the Cluster Colleges

Dear Sir/Madam,

Sub: The Standard Fireworks Rajaratnam college for women, Sivakasi. Cluster of colleges programme- Invitation-Reg.

We are very glad to inform you that the Department of Mathematics of our college has proposed to organize 'Students Seminar' Programme under the auspices of VNR District Cluster of colleges joint Faculty Programme on 18.2.17.

Kindly depute one student of PG Mathematics of your institution to present a paper in any branch of Mathematics. The paper presenters should bring with them a hard copy duly typed in A4 paper & the soft copy. The participants are supposed to be in our campus before 1.45 p.m. Atleast one staff should accompany the students.

We cordially invite all the Faculty and all the students of II PG Mathematics of your college to attend the programme. Kindly forward the number of participants through phone (220389) or e mail (sfrcmaths@gmail.com) on or before 15.2.17.

VENUE: Techno Lab(Administrative Block)

TIME ; 2:00 P.M

S - March HOD of Maths & Convenor of

Cluster Colleges

PRINCIPAL (co-ordinator) Virudhunagar District cluster of colleges joint faculty Programme in Mathematics.

Copy to:

1. The Principals of the Cluster Colleges.

2. The Heads of the Department of Mathematics of the Cluster Colleges.



THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS),

SIVAKASI – 626 123.

(Affiliated to Madurai Kamaraj University, Re-accredited with A Grade by NAAC, College with Potential for Excellence by UGC and Mentor Institution under UGC PARAMARSH)

Name of the institution/ industry/ corporate house

: Institute of Language Management Pvt. Ltd., Bangalore



Which term shall mean and include the successors, executors, representatives and assignees on the one Part) and The Standard Fireworks Rajaratnam College for Women, Thiruthangal Road, Sivakasi – 626 123, Virudhunagar District, Tamil Nadu, represented by its Principal Dr. D Sasireka (hereinafter referred to as 2nd Party, which term shall mean and include the successors, executors, representatives and assignees on the other part).

WHEREAS the 1st party herein is engaged in the educational services of teaching / training in colleges according to the syllabus and curriculum of the relevant Board exams which is broadly categorized as under:

- a) ILM'S English Today English education speaking, reading and writing skills necessary for the curriculum of the college.
- b) English education art of communicative skills / language skills using recreational activities like drama skills, storytelling skills, role plays, debating skills, drawing, art and crafts, creative writing skills, elocution, language games, puzzles etc taking care to ensure that the Board curriculum is followed broadly by demonstrative, fun, relaxing, enjoyable and practical methods:
- c) ILM will be supporting the college in conducting the assessment / examination in English language proficiency / art of communicative skill / and other test and examinations.

WHERE as the 2nd party is an Educational Institution running a government recognized college, is in need of an Educational organization / Institution to train / teach the students in the above mentioned English language education / art of communicative skills / language skills and conducting the examination hence has approached and entrusted the 1nd party on the following terms and conditions.

NOW THIS MOU WITNESSTH:

That both 1st and 2nd party has hereby agreed for following terms and conditions:

Education

- a) The classes / training will be on an academic year basis (2016-2017) and shall not extend for more than 9 months in a particular academic year (i.e. from 2nd week of June 2016 to Last week of March 2017).
- b) The MOU initially is for a period of one academic year and can be extended for further academic years on a renewal basis.
- c) The classes are proposed to be started in the month of 2nd week of June 2016 or otherwise as decided by both the parties in writing.

d) The number of educational classes for the academic year shall be at the rate of 2 (Two) periods per week per section/division/batch.

1st Party

(Seal & Signature)
For Institute of Language Mayay

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2nd Party (Seal & Signature)

PRINCIPAL, PRINCIPAL, be Standy Fire of the 2020 to 10 College for Women,

SIVAKASI.

- e) That the 2nd Party shall extend all the support, co-operation to maintain and observe discipline along with maintaining the regular attendance of the students. The 2nd party shall also fix the timing of the educational classes with in the college working hours (max 8 hours per day) with the consent of the 1st party.
- f) The 2nd party will provide / enroll the standard from 1nd year UG to 2nd year UG for the ILM'S training / classes. The total numbers of divisions / sections are 28 (Twenty Eight).
- g) The 1st party will be deploying its 2 (Two) trainers / teachers.

PAYMENTS:

- a) It is agreed by both the Parties that 1st Party shall conduct the above teaching and the total number of students enrolled are determined as 1300 (One Thousand Three Hundred) subject to enhancement at actual. The 2nd party has agreed to pay consolidated fee of Rs.575/- (Five Hundred Seventy Five) per student for the academic year 2016-2017 for the educational services being rendered. If for any reason the agreed strength of the students in the MOU gets reduced at any given point of time, the fees will be reworked and increased on a prorate-basis.
- b) It is understood that the total amount herein agreed to be payable is Rs.7,47,500/-(Rupees Seven Lakh Forty Seven Thousand Five Hundred Only) and the 2nd Party shall pay the same in two installments. The first installment 50% of the total amount in the month of June 2016 i.e. Rs.3,73,750/-, and the second installment 50% of the total amount in the month of March 2017 i.e. Rs.3,73,750/-.

REPORTS:

- a) ILM'S MTM (supervisors) will regularly visit the training premises / college to monitor, evaluate, and assess etc, the performance of its trainers / teachers.
- b) ILM encourages its colleges / learners for reporting the performance of the trainers and the course / training delivery carried out in the 2nd party's premises. The reporting can be done through the Hardcopy or Online based web-application-ILM will provide the 2nd party with a user ID for ILM'S School Management System, where the 2nd party can make use of the same for sending reports, viewing the performance, marking of attendance etc.
- c) If issues are not properly reported to 1st party or if the monthly report for a particular month is not sent to the 1st party, ILM (1st party) will presume that the classes (training) are going on smoothly. ILM will not be responsible for the consequences of any underlying issue that remain unreported.

1st Party

(Seal & Signature)

2002PTC031097

2nd Party (Scal & Signature)

Dr. D. SASIREKA
PRINCIPAL.
The Standard Fireworks Rajaratnar
Folial 18/42/2016

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General:

- a) Further to this the first party will not be liable for any payments (if) made by the second party or its representatives to the trainers / teachers / staff of the first party.
- b) It is further understood that the termination / expiration of this MOU will not disentitle the 1st Party to claim the arrears.
- c) Any dispute shall be subjected to the courts of Bangalore Jurisdiction.
- d) The 2nd party shall provide conditions to facilitate learning environment for both indoor and outdoor activities. The learning environment shall include safe classrooms, offices, workshops, common spaces and other facilities. As a prelude to learning environment, the 2nd party shall monitor and address issues relating to environmental conditions including: adequate illumination and ventilation, housekeeping and cleanliness, safeguard against excessive weather conditions like dust, cold, heat and rain, controlling noise and distractions.
- e) Any changes in the said MOU can be done by mutual consent of both the parties, the second party has agreed to the first party to give its fullest co-operation during this project on the campus.

IN WITNESS WHEREOF THE PARTIES HERE TO HAVE SET AND SUBSCRIBED THEIR RESPECTIVE HANDS ON THE DAY AND YEAR FIRST HEREIN ABOVE WRITTEN.

For Institute of Language Management (P) Ltd.

1st Party

(Seal & Signature)

Signed and delivered by the within named ILM (P) Ltd. through its Directors.

BANGALORE

Party

(Seal & Signature)

Signed & delivered by The Standard Fireworks Rajaratnam College for Women, Thiruthangal. Road, Sivakasi - 626 123, Virudhunagar District, Tamil Nadu, represented by its Principal Dr. D Sasireka.

Dr. D. SASIREKA PRINCIPAL. The Standard Fireworks Rajaratnam College for Women, SIVAKASI

CLASSES TO ENHANCE COMMUNICATIVE SKILLS

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI

Communicative English by Institute of Language Management - Time Table [ODD Semester 2016 - 2017]

Day	1	Room	п	Room	ш	Room	iv	Room	Y	Room
Day I	I Tamii	8	II Eng (R + SF) • Reg • SF	35 36	I BCA II Maths (CA) + II Nutrition	C15	I Maths + I Fashion • 1 - 50 • 51 - cumuining	5 48	I His + I Micro • 1 - 40 • 41- remaining	C13 M1
Day 11	I Eng (R+SF) • Reg • SF	33 34	I His + I Micro • 1 - 40 • 41 - remaining	C13 48	II Chem II Bot	1 48	II Hist + II Micro • 1 =40 • 41 - remaining	C14 48	I Physics I Comp Sci	46 C1
Day III	II Phy II Comp.Sci	46 C5	I Maths + I Fashion 1 - 50 51 - remaining	5 42	II Chem II Bet	1 48	11 17 + 117	cu	H Eng (R +SF) Reg SF	35 36

Day	- 1	Reom	11	Room	ш	Room	IV	Room	v	Room
Day IV	I Maths (CA)+ I Nutrition	26	II Tamil	9	II Hist + II Micro • 1-40 • 41 - remaining	C14 40	I Eng (R + SF) • Reg • SF	33 34	I Chem I Bot	1 29
Day V	II Maths (CA) + II Nutrition II IT+LIT	42 C11	II Physics II Comp Sci	46 C5	II Tamii	9	II Maths(R) • 1 – 35 • 36 – remaining	31 48	I Tamil	8
Day VI	II Maths(R) •1-50 •51-remaining	31 C6	I BCA	CIS	I Chem I Bot	C13	I Physics I Comp Sci	48 C1	I Maths (CA)+ I Nutrition	26

CO-ORDINATOR

Describela

PRINCIPAL

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI ILM Communicative English – Time Table [Even Semester 2016–2017]

Day	50 - E	Room	п	Room	ш	Room	IV	Reom	v	Room
Day I	I Eng • Reg • SF	33 34	I Tamil II Maths(CA) + II Nutrition	s a	II Tamil	9	1 Physics 1 CSc	es CI	II Physics II Comp. Sci	48 C5
Day II	I BCA + I BSc IT	CII	II Eng • Reg • SF	35 36	II Chem II Bol	t 48	1 Eng • Reg • Sf	33 34	I Maths(CA) + I Nutrition	26
Day III	II Maths II Il-Sc IT	31 A5	1 80s + 1 Micro • 1 - 40 • 41 - remaining	C13	IBScIT+ IBCA	CH	II His + II Micro • 1 - 40 • 41 - remaining	C14	II Physics II Comp. Sci	46 CS

Haar Day	200	Room	ш	Room	ш	Room	iv	Reom	v	Rosa
Day IV	II Hist + II Mizro • 1 - 45 • 46 - requiring	C14 48	II Maths	31	I Chen I Bot	48 47	1 Maths(R) ÷ 1 Fashion • 1 – 50 • 51 – remaining	5 48	1 Tamil	8
Day V	II Eng • Reg • SF	35 36	I His + I Micro • 1 - 40 • 41 - remaining	C13 48	II Chem	1 48	II Maths(CA) + II Nutrition	42	I Physics I Comp. Sci	4S CI
Mondo 7	I Maths(CA) + I Nutrition	26	Il Tamit	9	H B.Sc IT	A5	1 Chen	40	f Maths(R) + I Fashion • 1 - 50 • St - retraining	5 48

Coordinator

Deskela.
Principal