

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

2015-2016



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 Tamil

Name of the institution/industry/corporate house: Kandhagapookal Elakkiya Amaippu,

(Kandhaga Pookal Literacy Organisation)

Sivakasi

கந்தகப்பூக்கள் இலக்கிய அமைப்பு

120, குட்டியணைஞ்சான் தெரு. சிவகாசி - 626 123.

செல்லிடபேசி : 98435 77110 மின்னஞ்சல் : sivakasi@gmail.com லிடியலுக்காக காத்திருக்க நாம் குரியகாந்திகள் அல்ல... நாம்தான் சூரியன்!

25/16 | 5.4.16

புரிந்துணர்வு ஒப்பந்தம் (MOU)

சிவாசி, கந்தகப்பூக்கள் இலக்கிய அமைப்பும், சிவகாசி எஸ்.எ.'.ப்.ஆர் மகளிர் கல்லூரியின் (தன்னாட்சி) தமிழ் உயராய்வு மையமும் இணைந்து செய்து கொள்ளும் புரித்துணர்வு ஒப்பந்தம்.

- 🗸 கந்தகப்பூக்கள் இலக்கிய அமைப்பு நடத்தும் போட்டிகளில் பங்கேற்கச் செய்தல்.
- படைப்பாக்கத்திறன் தொடர்பான பயிரைங்குகளை நிகழ்க்குமன்.
- 🗸 கந்தகப்பூக்கள் இலக்கிய அமைப்புடன் இணைந்து மாண்லிகள் பயறுறும் கருத்தரங்குகள் திரைக்குகல்.

ஒப்பந்தத்திற்கான காம எல்லை 2016 முதல் 2021 வுரை

general & Chuaran

கந்தகப்பூக்கள் இலக்கிய அமைப்பு,

சியகாசி

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வஎல்.எ. ப. ஆர் மகவிர் கல்லூரி,

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எஸ்.எ.'.ப்.ஆர் மகளிர்கல்லூரி,

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முதல்வர் ஸ்டாண்டர்டு பயர் ஒர்க்க் இ-ுறைத்தினம் மகளிர் கல்லூரி,

ஆசிரியர் குழு

கந்தகப்பூக்கள் ஸ்ரீபதி : +91 98435 77110, யுவாபரதி கந்தகப்பூக்கள் : +91 98437 53894 கந்தகக்கமி பாண்டு : +91 98436 10020.

WORKSHOP

தி ஸ்டாண்டர்டு ஃபயர்ஒர்க்ஸ் இராஜரத்தினம் மகளிர் கல்லூரி, (தன்னாட்சி) (ஆற்றவ்சால் கல்லூரி, தேசியத் தர நிர்ணயக் குழுவின் மறுமதிப்பீட்டில் 'A' தரம் பெற்றது)



சங்காசி தமிழ்த்துறை செய்தி அறிக்கை ஒரு நாள் பயிவரங்கம் படைப்பும் படைப்புக் கோட்பாடுகளும்

சிவகாசி எஸ். எஃப். ஆர். மகளிர் கல்லூரியின் தமிழ்த்துறையில் மாணவர்களுடைய படைப்புத் திறனை வெளிக்கொண்டு வரும் நோக்கத்துடன் 06.08.2015 அன்று படைப்பும் படைப்புக் கோட்பாடுகளும் என்னும் தலைப்பிலான ஒரு நாள் பயிலரங்கம் நடத்தப்பட்டது. நிகழ்ச்சியின் தொடக்கமாக எஸ்.எஃப்.ஆர். மகளிர் கல்லூரியின் தமிழ்த்துறை உதலிப்பேராசிரியர் அவர்கள் அனைவரையும் வரவேற்றார். முளைவர். திருமதி இரா. சென்பகலள்ளி முதல்அமர்வின் பயிற்றுரைஞர், விஇநா.செந்திக்குமார நாடார் கல்லூரி, தமிழ்த்துறை திருபெகபெரியசாமிராஜா அவர்கள் கோட்பாட்டு வெளிச்சத்தில் உகவிப்பேராசிரியர் படைப்புகளை அணுகுதல் என்னும் தலைப்பில் உரையாற்றினர். ஒவ்வொரு படைப்பாளருக்கும் தனித்தனித் அடையாளங்கள் அமைதல் வேண்டும் என்று வேண்டுகோள் விடுத்தார். மானவர்களுக்கு நடைமுறைச் குழலுக்கு ஏற்றவாறு திரைப்படச்சான்று காட்டி பெண்ணிய, மார்க்கிய கோட்பாடுகளை விளக்கிப் பயிற்றுரையாற்றினார். இரண்டாவது அமர்வின் பயிற்றுநரை தமிழ்த்துறை உதலிப்பேராசிரியர் முனைவர். திருமதிநாகவிதா அவர்கள் அநிமுகப்படுத்தினார். இரண்டாவது அமர்வில், விருதுநகர் மாலட்ட தமிழ்நாடு ஈலை இலக்கிபப் பெருமன்றத் தலைவர் திரு. கந்தகப்பூக்கள் ஸ்ரீபதி அவர்கள் நானும் என் படைப்புகளும் என்ற தலைப்பில் பயிற்றுரையாற்றினார். தன்னுடைய படைப்பு உருவாக்கம் மற்றும் படைப்பு அனுபவம் குறித்து பயிற்றுரையாற்றினார். படைப்புகளின் பாடுபொருள் காலத்திற்கேற்ப மாறுபடும் பான்மையைச் சான்றுகளுடன் முன்வைத்தார். பயிவரங்க நிறைவில் இனங்கலைத் தமிழ் இரண்டாமாண்டு மாணவி செல்வி நாகேஸ்வரி நன்றியுரை வழங்கினார். இப்பயிரைங்கில் 14 தமிழ்த்துறை பேராசிரியர்களும். 261 மாணவியரும் பங்கேற்று பயனடைந்தனர். இப்பயியரங்கினைத் தமிழ்த்துறைத் தலைவர் முனைவர் பா. பொள்ளி அவர்கள் நன்முறையில் ஏற்பாடு செய்திருந்தார்.

_துகி ஒருங்கிளைப்பாளர் gjenpägenamit Dr.B.PONNI Head & Asst. Proffessor in Tamil, The Standard Fireworks Rajarstoum College for Women, (Autonomous) Sivakasi - 626 123.



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 Tamil

Name of the institution/industry/corporate house: Inthiya Makkal Nadaga Mandram, Sivakasi.



SEMINAR

தி ஸ்டாண்டர்டு ஃபயர்ஒர்க்ஸ் இராஜரத்தினம் மகளிர் கல்லூரி, (தன்னாட்சி) ஆற்றல்சால் கல்லூரி, தேசியத் தர நிர்ணயக் குழுவின் மறுமதிப்பீட்டில் 'A' தரம் பெற்றது) சிவகாசி

மாநில அளவிலான ஒருநாள் கருத்தரங்கம்

செய்தி அறிக்கை

சிவகாசி, எஸ்.எஃப்ஆர்.மகளிர் கல்லூரியின் தமிழ்த்துறையினர் 28.01.2016 அன்று "தமிழ்-ஆங்கில இலக்கியங்களில் இருபதாம் நூற்றாண்டுப்பதிவுகள்" என்ற தலைப்பில் மாநில அளவிலான ஒருநாள் கருத்தரங்கம் நடத்தினர். கல்லூரி முதல்வர் முனைவர் த.சசிரேகா அவர்கள் நிகழ்வுக்குத் தலைமை தாங்கினார். கருத்தரங்க ஒருங்கிணைப்பாளரும் தமிழ்த்துறை உதவிப்பேராசிரியருமான அன்னபாக்கியம் அவர்கள் ஆய்வாளர்களை வரவேற்று உரையாற்றினார். பல்வேறு கல்லூரிகளில் இருந்து வந்திருந்த ஆங்கிலம் மற்றும் தமிழ்த்துறை சார்ந்த ஆய்வு மாணவர்களுடன் கருத்தரங்கம் இனிதே நடைபெற்றது. விருதுநகர், வி.இ.நா.செந்திக்குமார நாடார் கல்லூரியின் தமிழ்த்துறை உதவிப்பேராசிரியர் திரு.பெ.க. பெரியசாமிராஜா அவர்கள் கருத்தரங்க அமர்வுத்தலைவராகப் பொறுப்பேற்று ஆய்வுக்கட்டுரைகளுக்கு மதிப்புரை வழங்கிச் சிறப்பித்தார். பல்வேறு கல்லூரிகளைச் சார்ந்த தமிழ் மற்றும் ஆங்கிலத்துறை ஆய்வாளர்கள் இருபதாம் நூற்றாண்டின் நிகழ்வுகளை இலக்கியப் படைப்புக்கள் எங்ஙனம் பிரதிபலிக்கின்றன என்பதனை கோட்பாடுகளுடன் இணைத்து ஆய்வுக்கட்டுரைகளை வழங்கினர். ஆய்வியல் முதுகலை இரண்டாமாண்டு தமிழ் மாணவி செல்வி மு.பூங்கோதை நன்றி நவில கருத்தரங்கம் நிறைவுற்றது. தமிழ்த்துறைத்தலைவர் முனைவர் பா.பொன்னி அவர்கள் இக்கருத்தரங்கினை நன்முறையில் செய்திருந்தார். ஏற்பாடு இக்கருத்தரங்கில் தமிழ்த்துறை மாணவியர் மட்டுமின்றி பிறகல்லூரி தமிழ் மற்றும் ஆங்கிலத்துறை சார்ந்த 50 ஆய்வு மாணவர்களும் கலந்து கொண்டு பயன் அடைந்தனர்.

திர்க்க திரும் இரும் இர an Ord

தமிழ்த்துறைத் தலைவர்

Dr.B.PONN!
Head & Asst. Proffessor
The Standard Fireworks Ri.
College for Women, (Autonomous)
Sivakasi - 626 123.

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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 Business Administration

Name of the institution/industry/corporate house: V.V.V.&.Sons Edible Oils Limited,

Virudhunagar.

MEMORANDUM OF UNDERSTANDING BETWEEN

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI

AND

V.V.V. & SONS EDIBLE OILS LIMITED, VIRUDHUNAGAR

The Memorandum of Understanding is executed in the field of Education

(Industrial Visit, Projects and Training) and covers the following areas

- Strengthen the Industry-Institute relationship.
- Ensure knowledge of the work environment among the students through Industrial Visit.
- Provide assistance for the project work carried out by the students
- Lay emphasis on hands-on learning that enables the students to develop HR skills.
- Exchange information pertaining to Human Resource Management
- Enhance employability of students

The MOU shall be in force on the date of signing by both the parties and shall remain in force for a period of five years from January 2016 to December 2020

Executed on the Sixth day of January 2016 at Sivakasi

THE SIGNATORIES OF THE PRESENT MEMORANDUM

PRINCIPAL,

Dr.(Mrs.) D.Sasireka,

V.V.V. & Sons Edible Oils Limited, Virudhunagar.

The Standard Fireworks Rajaratnam College for Women,

D. SASIREKA PRINCIPAL.

The Standard Fireworks Rajaratnam

College for Women,

FIELD VISIT

V.V.V. & Sons Edible Oils Limited

Manufacturers of IDHAYAM®

Regd. Office : Post Box No. 19 443, Bazaar, Virudhunagar - 626 001 Tamilnadu. India

TIN No. 33175721640 CST. No. 504273 dt. 26-3-2008 I & E Code No. 3508005950 Fax : 04562 - 242766 Mobile : +91 97509 - 55457 E-mail : threevee@idhayam.com



July 6, 2015

Dr.T.Palaneeswari, Co-ordinator Dept of Business Administration, SFR College for Women Sivakasi – 626 123 Mob. 95977 49881

Dear Madam,

Greetings from Idhayam!

Sub: Confirmation of Industrial Visit.

Your 50 (III BBA) Students and a staff members are most welcome to visit our factory at Villipathiri on 28^{th} Aug 2015, Monday. Time :09.30 to 12.00noon.

With best wishes.

Yours truly, For V.V.V & Sons Edible Oils Limited.,

k Kaumani k V.R. MUTHU Chairman

Contact for further details - Mob.no.97509 55454

nt I: No. 57/2, T.C.K.P. Street, Virudhunagar-1 • Ph: 04562-244222 • Mob: +91 94437 55789 / +91 94422-44789 • E-mail: virudhunagar@idhayam.c
nt II: 1/238-A, Villipathiri Post, (via) Virudhunagar-1 • Ph: 04562 - 242526 • Mob: +91 94437 - 25789 • E-mail: villipathiri@idhayam.c
nt III: 3/241, Nagampatti Road, Varalotti, (via) Virudhunagar-1 • Mob: +91 94431 - 66789 / +91 94421 64789 • E-mail: virudhunagar-1 varalotti@idhayam.c

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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 Commerce SF

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

Vidhyasala Matriculation Higher Secondary

School, Sivakasi.

MEMORANDUM OF UNDERSTANDING BETWEEN THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (Autonomous), SIVAKASI AND 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

Osssirehe

PRINCIPAL

PRINCIPAL
The Standard Fire Works
Rejarations College for Women,
SIVAKASI.

PRINCIPAL

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

1. Witness

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

2. Witness

Dr. M. JAVALAKSHMI
M. M., M.Phil., Ph.D.,
Department of Commerce
S.F.R. COLLEGE FOR WOMEN
SIVAKASI - 626 123

3. Witness

CHCAQ (Mrs. L. MUTHU LATHA) K.G. TEACHER YRTV Mat. Hr. Sec. School, SIVAKASI

JOB ORIENTED COURSE - PRE-SCHOOL EDUCATION

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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 (HEART)] 6/15, Ohri Salai, Mugappair East, Chennai- 600 037.

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

MEMORANDUM OF UNDERSTANDING

Management of the Standard Fireworks Rojarutnam College For wamen, Sivakasi

Monogement of ENEART's (Eswar Health Education And Research Trust) Institute of Compilmentary and Traditional Medicine, Chennal.

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 concurrency 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:

I 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,

II. institute of Complimentary and Traditional Medicine, Chenn

- 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.

Isasinche D. SASIRERA
PRINCIPAL
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College for Women.

SIVARASI.

MANAGING TRUSTEE Institute of Complimentary and Traditional Medicine. Chennal

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SELF EMPLOYMENT COURSE - HERBAL ENTREPRENEURSHIP

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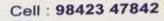
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THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.



(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 : Touch & Touch, Cell Phone Servicing and
Training Institute, Sivakasi





Touch & Touch

The Joy of Learning
Institute of Communication Technology
Cell Phone Servicing & Training Institute
62A, North Car Street, Sivakasi -626 123.

To,

Dr. Mrs. D. Sasireka, The Principal, The Standard Fireworks Rajaratnam C

The Standard Fireworks Rajaratnam College for Women, Sivakasi.

MEMORANDUM OF UNDERSTANDING

We are pleased to sign a MOU with the Department of Computer Science of your esteemed institution with regard to the conduct of a Life oriented course / Self Employmented course on Cell phone servicing. We give assurance for quality education and First Class Hands on Experience in the Field. We would also be pleased to provide internship to all the Candidates undergoing the Course and Placement for the Top 2 hand in our Concern.

Director

Touch & Touch

Institute of Communication Technology

SELF EMPLOYMENT COURSE - CELL 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:

- 1. Conducting jointly the course and training in specific fields.
- 2. Offering technical consultancy.
- 3. Utilizing resource persons periodically.
- 4. 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 20.14 at Sivakasi.

S. Selva sehavapanda.

DIRECTOR

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

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PRINCIPAL

PRINCIPAL
The Standard Fire Works
Rajaratnam College for Women,
SIVAKASI.

1. Witness : N. Uyay

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

2. Witness

Dr. G. Kashin Bangathini Edutational Trust Member

RESEARCH PUBLICATIONS

lonics DOI 10.1007/s11581-016-1672-7



ORIGINAL PAPER

Characterization of blend polymer PVA-PVP complexed with ammonium thiocyanate

M. Premalatha^{1,2} · N. Vijaya¹ · S. Selvasekarapandian^{2,3} · S. Selvalakshmi¹

Received: 21 November 2015/Revised: 27 January 2016/Accepted: 13 February 2016 © Springer-Verlag Berlin Heidelberg 2016

Abstract Thin films of blend polymer electrolytes comprising poly(vinyl alcohol) (PVA) and poly(vinyl pyrrolidone) (PVP) complexed with ammonium thiocyanate (NH₄SCN) salt in different compositions have been prepared by solution casting technique using distilled water as solvent. The prepared films have been investigated by different experimental techniques. The complexation of these films has been studied by FTIR spectroscopy. The increase in amorphousness of the films with increase in NH₄SCN content has been confirmed by XRD analysis. The addition of ammonium thiocyanate salt to PVA-PVP polymer blend shows a shift in To of the blend. The effect of salt concentration and temperature on the ionic conductivity of the polymer blend films has been analyzed using AC impedance spectroscopy. The maximum conductivity of 6.85 × 10⁻⁴ S cm⁻¹ at room temperature has been observed for the blend with 50 mol% PVA-50 mol% PVP complexed with 40 mol% NH₄SCN. The activation energy has been found to be minimum (0.24 eV) for this sample. Wagner's polarization technique shows that the charge transport in these blend films is predominantly due to ions. Using the highest conductivity blend polymer electrolyte, a proton battery has been fabricated and its discharge characteristics have been studied.

S. Selvasekarapandian sekarapandian@rediffmail.com

- Department of Physics, The S.F.R. College for Women, Sivakasi, Tamil Nada 626 123, India
- Materials Research Centre, Coimbature, Turnil Nadu 641 045, India
- Department of Nano Science and Technology, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu 641003, India

Keywords Blend polymer - XRD - FTIR - AC impedance spectroscopy - Ionic conductivity - Transference number

Introduction

The amorphous polymeric materials especially protonconducting polymer electrolytes play a vital role in the ionic devices such as fuel cells, supercapacitors, batteries, and electrochemical devices because of their high conductivity, thermal stability, life time, and mechanical strength properties [1-3]. Nafion is a standard proton conducting membrane used in fuel cells [4]. The researchers are now developing a new polymer membrane to replace Nafion because of its high cost. For developing a new proton-conducting polymer electrolytes, high ambient temperature conductivity, flexibility, durability, and mechanical strength are considered as important factors. Various efforts such as adding plasticizers and inorganic inert fillers to polymer electrolytes, use of copolymers, and blending two polymers [5-10] have been made to enhance the electrical, mechanical, and electrochemical properties of polymer electrolytes. Among the various approaches that have been employed for the preparation of polymer electrolytes with high ionic conductivity and appreciable thermal stability at ambient temperature, blending of polymers is an important method. Polymer blends are polymer systems originated from the physical mixture of two or more polymers and/or copolymers, without a high degree of chemical reactions between them. The advantages of polymer blends lie in the ability to combine existing polymers into new compositions obtaining in this way, materials with specific properties for desired applications. This strategy allows for savings in research and development of new materials with equivalent properties, as well as versatility, simplicity, relatively low cost and faster development time of new materials [11]. The most

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Characterization of proton conducting blend polymer electrolyte using PVA-PAN doped with NH_4SCN

M. Premalatha, T. Mathavan¹, S. Selvasekarapandian, F. Kingslin Mary Genova¹, and R. Umamaheswari

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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

¹PG &Research Department of Physics, N.M.S.S. Vellaichamy Nadar College, Madurai-625 019, India ²Materials Research Center, Coimbatore-641 045, India. ³Department of physics, S.F.R. College for Women, Sivakast-626 128, India *Email:njmuthavama:gmuul.com. kingslin.genova20/aigmuil.com

Abstract. Polymer electrolytes with proton conductivity based on blend polymer using polyvinyl alcohol (PVA) and polynerylo mitrile (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 303 K has been found to be 3.25 x 10⁻³ S cm⁻¹ for 20 mol % NILSCN doped 92.5PVA:7.5PAN system. The increase in conductivity of the doped blend polymer electrolytes with increasing temperature suggests the Arribenius type thermally activated process. The activation energy is found to be low (0.066 eV) for the highest conductivity sample.

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 furnishings. It is already reported that the molecular weight of 92.5%PVA: 7.5% PAN exhibits the conductivity of 1.13 × 107 S cm1 at room temperature [6]. In this work, proton conducting polymer blend electrolyte based on PVA-PAN doped with ammonium thiocyanate (NH₄SCN) 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 Cuka radiation at 40 KV and 30 mA in the 20 range of 10 -80°. The electrical properties of the films were

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Lithium Ion-Conducting Blend Polymer Electrolyte Based on PVA-PAN Doped with Lithium Nitrate

Kingslin Mary Genova F. B. Selvasekarapandian F. S. Karthikeyan M. Vijaya K. Sivadevi G. C. Sanjeeviraja

- ^o Research and Development Centre, Bharathiar University, Coimbatore, Tamilnadu, India
- Department of Physics, The S.F.R. College for Women, Sivakasi, Tamilnadu, India
- Materials Research Centre, Coimbatore, Tamilnadu, India
- Department of Physics, Madras Christian College, Chennai, Tamilnadu, India
- Department of Physics, Alagappa Chettiar College of Engineering & Technology, Karaikudi, Tamilnadu, India

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Study on Blend Polymer (PVA-PAN) Doped with Lithium Bromide1

F. Kingslin Mary Genova^{a,b,c}, S. Selvasekarapandian^c, S. Karthikeyan^d, N. Vijaya^b, R. Pradeepa^b, and S. Sivadevi^b

** Research and Development Centre, Bharathiar University, Coimbatore, Tamilnadu, India

b Department of Physics, the S.F.R. College for Women, Sivakasi, Tamilnadu, India

"Materials Research Centre, Coimbatore, Tamilnadu, India

d Department of Physics, Madras Christian College, Chennai, Tamilnadu, India

e-mail: sekarapandian@rediffmail.com

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Abstract — Blend polymer electrolyte membranes that consist of poly(vinyl alcohol) (PVA), poly (acrylonitrile) (PAN) and different concentrations of lithium bromide (LiBr) have been prepared by solution casting technique using dimethylformamide (DMF) as solvent. The amorphous nature of the blend polymer (92.5 PVA: 7.5 PAN)—salt complexes has been confirmed by X-ray diffraction analysis. The formation of blend polymer (92.5 PVA: 7.5 PAN)—salt complexes has been confirmed by Fourier transform infrared spectral studies. The decrease in glass transition temperature (T_g) with the salt reveals the increase in segmental motion. Conductivity studies have been carried out using ac impedance spectroscopy and it has been found that, the maximum ionic conductivity is 3.0 × 10⁻⁴ S cm⁻¹ for 30 wt % LiBr doped—92.5 PVA: 7.5 PAN electrolyte. The temperature dependence of conductivity of the blend polymer electrolyte has been discussed. The activation energy is calculated for all compositions of blend polymer doped with LiBr using Arrehenius plot. The dielectric spectra show low frequency dispersion. Ionic transference number (t_s) has been found to be 0.98 for the blend polymer (92.5 PVA: 7.5 PAN) with 30 wt % LiBr. This result reveals that the conducting species are predominantly ions. Primary battery has been constructed with the configuration Zn + ZnSO₄ - 7H₂O/92.5 PVA: 7.5 PAN: 30 wt % LiBr/PbO₂ + V₂O₃ using the maximum conducting blend polymer, and its discharge characteristics has been discussed.

DOI: 10.1134/S0965545X15070032

INTRODUCTION

Polymer electrolytes are of technological interest due to their possible applications in rechargeable batteries, chemical sensors, fuel cells and electrochromic display devices [1, 2]. High ionic conductivity at ambient temperature, good mechanical strength, appreciable transference number, good thermal and electro chemical stabilities and better compatibility with electrodes are the pre-requisites for a polymer electrolyte for solid state battery applications. Various approaches have been made to modify the structure of polymer electrolytes in order to improve their electrical, electrochemical and mechanical properties. These approaches include: synthesizing new polymers [3]; cross linking two polymers [4]; blending of two polymers [5]; adding plasticizers to polymer electrolytes [6]; adding inorganic inert fillers [7] to make composite polymer electrolytes. Out of these methods blending of two polymers is easy for preparation, as well as polymer blends are physical mixtures of structurally different polymers that interact through secondary forces and that are miscible to the molecular level and control the physical properties within the compositional regime. The significant advantages of polymer blends are that the properties of the final product can be tailored to the requirement of applications, which cannot be achieved alone by one polymer. However, the film properties depend on the miscibility of blend. The polymer-polymer miscibility may arise from any one of the interactions such as hydrogen bonding, dipole-dipole forces and charge transfer complexes for homopolymer mixtures [8–13]. A lot of blend polymer electrolytes based on PEO-PAN [14], P(VdF-HFP)-PVAc [15], PVC-PMMA [16], etc. have been reported.

Poly (vinyl alcohol) (PVA) is a semicrystalline polymer, having high dielectric strength, good charge storage capacity and dopant dependent electrical properties. It has carbon chain back bone with hydroxyl groups attached to methane carbons. These O—H groups can be a source of hydrogen bonding and therefore, assist the formation of polymer complexes [17]. It has excellent mechanical properties and shows both ionic and electronic conduction [18]. Polyacrylonitrile (PAN) polymer has been extensively studied due to its good chemical and flame resistance and electrochemical stability [19]. PAN is a semicrystal-line, synthetic resin prepared by the polymerization of

¹ The article is published in the original.



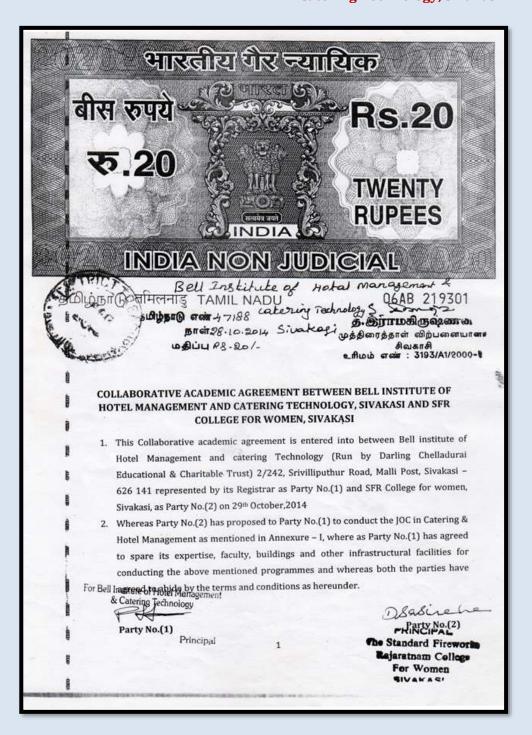
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Name of the Department : Department of Microbiology

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 20 days and in the weekend. 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 20 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 40 and maximum decided by Party No.(2).

8. Learning Resources

It is the responsibility of Party No.(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.

For Bell Institute of Hotel Management & Catering Technology

Principal

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Rajaratnam Celles
For Women

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 student(Rs.3500/-) excluding transportation and outdoor duties. The fee shall be paid as soon as the completion of the 20 - 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., 2014 – 15 & 2015 – 16 and expires on May 2016. Further the agreement can be renewed on both parties concern.

For Bell Institute of Hotel Management & Catering Technology

Party No.(1)

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Party No.(2)

PRINCIPAL

The Standard Fireworks

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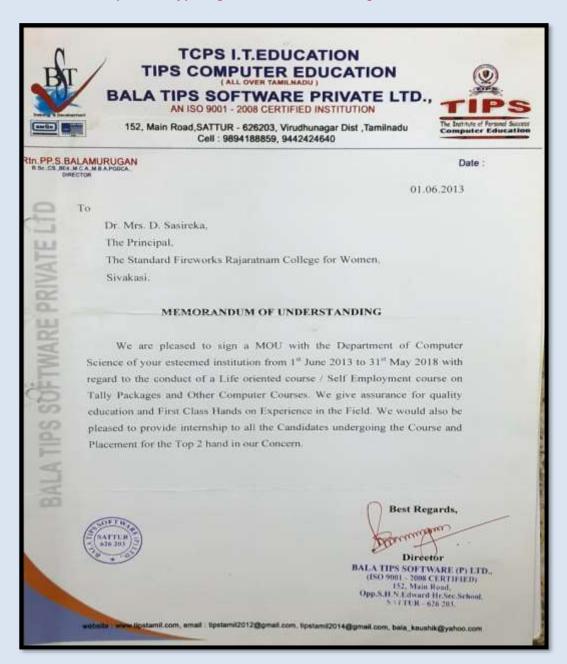
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THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN (AUTONOMOUS), SIVAKASI – 626 123.

(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),

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Name of the Department : Department of Computer Applications
Name of the institution/ industry/ corporate house : Apollo Computer Education, Sivakasi



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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 Mathematics

Name of the institution/industry/corporate house: Viruthungar District Cluster of

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 Arm and Science Colleges in Virushunagar District affiliated to Madural Kamaraj University, Madural. List of Colleges:
1. S.F.R.College for Women, Sivakasi (Co-ordinator)

- 2. A.N.J.A.College, Sivakasi.
- 3. V.H.N.S.N.College, Viruilhanagar.
- 4. V.V.V. College for Women, Virudhanagar.
- 5. S.R.N.M.College,Sattur.
- 6. S.B.K.College, Aruppukottai.
- 7. Devangar Arts College, Aruppukettai.
- 8. Sri Kaliswari College, Sivalumi,
- 9. Rajapaiayam 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, Krishnurkoil.

Where as the colleges herein they are mutually agreed to enter into the organisation of a programme named as "The Virudhurugar District Cluster of Colleges Joint Faculty Programme in Mathematics" and further decided to make into writing of this document for better understanding and parsaing prograe

The Bylaws are as follows:

- The Standard Fireworks Rajarstimum College for Women, Sivakasi, will be the co-ordinator for this programme
- . In the beginning of every academic year HODs of Department of Mathematics in all the member colleges will meet at S.F.R.College for Women, Sivakasi during the month of June to chalk out the programmes for that academic year.
- Each College will take care of one programme in that academic year.
- In the absence of HODs, any 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 accompanied by faculty members from the colleges will attend the programmes without fail, M.Phil students can atso join.
- . Tracking faculty from those colleges which do not offer PG course in Mathematics may arrend all the programmes.
- One day programme can be arranged 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 fee for any other programme conducted under the hanner of "Virudhunager District Cluster of Colleges Joint Faculty Programme in Mathematics'.
- Ali the programmes are students 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 Virudhunagar 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 academic 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 faculty members from other member colleges must attend the meeting.
- New colleges in Virudhunagar 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.college, 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 memorandum of understanding is agreed upon by the Principals of all the member colleges. In witness there of the Principals of all the colleges have signed on the

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

Principal

S.F.R.College for Women Siyakasi

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

Principal

A.N.J.A.College Sivakasi.

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

Principal

PRINCIPAL

PRINCIPAL

Ayya fimler Jonetti Ammai College SIVAKASI - 626 124.

FR'NCIPAL

The Standard Fireworks

Rajarataam College

For Women SIVAKASI.

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20.6

V.H.N.S.N.Collegermunithagan HINDU MADARS SENTHIKUMADA MADAR ODILEGE

Virudhunzgar.

VIRISTITUTE OF B.

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

V. Vendominel City for Wome Principal magar tomor it of orthogona resince parameter

V.V.V. College for Women Visco House Alle

Virudhunagar.

GUEST LECTURE AND PAPER PRESENTATION

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

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



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

Principal

Ref. No.....

20.06.2015

To

The Principals of the clastic 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-2015-2016 – Reg.

We would like to inform you that the Virudhunagar District Cluster of Colleges H.O.D meet will be held in our college on 4.07.201

✓ 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 & month.

Agenda:

Planning the Programme for the Academic year 2015-2016.

Date : 4.07.2014. Time : 3.00 p.m Venue : Room no 23

Thanking You,

H.O.D. of Maths & Convenor of Cluster of Colleges.

PRINCIPAL 20/6/15

VirudhunagarDistrict cluster of colleges Joint Faculty programme in Mathematics

Copy to:

The Principals of the Cluster Colleges.

The Heads of the Department of Mathematics of the Cluster Colleges. The Standard Fire Works Rajaratnam College for Women, SIVAKASI.

★ Enlightenment of self

★ Enrichment with knowledge

★ Empowerment of women

★ Excellence through diligence

★

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

28-7.2016

To

The Head, Department of Mathematics, S.B.K. College, Aruppukottai.

Dear Sir,

Sub: Intimation of the number of students attending the Cluster Programme at your College on 30.7.16.

We are glad to inform you that 27 II M.Sc. Maths students accompanied by our staff Miss.N. Manjuladevi, Assistant Professor of Mathematics will attend the "Paper presentation for PG Students" arranged under the auspices of VNR district Cluster of Colleges Joint Faculty Programme in Mathematics at your college on 30.7.16.

Thanking You,

Yours truly,

Staff in-charge

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PRINCIPAL

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._____

22.7.2015

To

Head, Department of Mathematics, S.B.K College, Aruppukottai.

Dear Sir,

Sub: Intimation of the number of students attending the cluster Programme at your college on 25.07.15

We are glad to inform that 25 students of II M.sc.Maths and one staff member Mrs R.Malinidevi Assistant professor Department of Mathematics of our college will attend the Guest lecture on the topic Vedic Mathematics arranged under the VNR district cluster of colleges Joint Faculty Programme in Mathematics at your college on 25.07.15.

Thanking You,

Yours faithfully,

Blalmder STAFF-IN-CHARGE

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DSASILE LE 22/2/15 PRINCIPAL

★ Enlightenment of self ★ Enrichment with knowledge ★ Empowerment of women ★ Excellence through diligence ★

Phone: 04562 - 220389 Fax: 04562 - 226695

E-Mail: sfrc@sfrcollege.org. Website: www.sfrcollege.org.

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

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



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

Principal

Ref. No.....

28.8.15

To

Head, Department of Mathematics, V.V.V College, Virudhunagar

Dear Madam,

Sub: Intimation of the number of students attending the paper presentation Competition - cluster Programme at your College on 29.8.15.

We are glad to inform you that 3 II M.sc.Maths students and Mrs D.Roselind Gnanakumari, Assistant Professor in Mathematics of our college will attend the paper presentation competition organized under the auspices of VNR District Cluster Colleges Joint Faculty Programme by the Department of Mathematics at your college on 29.8.15.

Thanking You,

Staff-in-charge

narge H

HOD

DS & Sicena PRINCIPAL 20/15

Phone: 04562 - 220389 Fax: 04562 - 226695

E-Mail : sfrc@sfrcollege.org. Website : www.sfrcollege.org.

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.....

18.09.2015

To

The Head,

Department of Mathematics,

SRNM College,

Sattur.

Dear Sir,

Sub:

Intimation of the number of students attending the Guest Lecture in your College on 19.09. 15

We are glad to inform you that 10 II M.sc., Maths students and one staff Member of our college will attend the Guest Lecture arranged under the auspices of VNR district Cluster of Colleges Joint Faculty Programme in Mathematics at your college on 19.09. '15.

Staff-in-charge

P. June

PRINCIPAL (8/9/15

* Enlightenment of self * Enrichment with knowledge * Empowerment of women * Excellence through diligence *

Phone: 04562 - 220389

Fax: 04562 - 226695

E-Mail: sfrc@sfrcollege.org.

Website: www.sfrcollege.org.

From

Mrs. SP.Nandhini,
Assistant Professor of Mathematics,
S.F.R College for Women,
Sivakasi

To

The Principal,

S.F.R.College for Women, Sivakasi.

Respected Madam,

I wish to bring to your kind notice that myself and 10 II M.Sc Maths students are going to attend the Guest Lecture arranged under the auspices of VNR district Cluster of Colleges Joint Faculty Programme in Mathematics at S.R.N.M. College, Sattur on 19.09.2015 at 2.30pm. Kindly permit the following students to take part in the Programme.

II MSc Maths:

- 1.B.Muthupriya-1404118
- 2.S.Sivasakthi-1404117
- 3.M.Revathi-1404116
- 4.M.Gayathri-1404128
- 5.T.Kaniselvi-1404145
- 6.V.Rani-1404106
- 7.M.Kayalvizhi-1404132
- 8.R.Nageshwari-1404123
- 9.M.Ponmani-1404137
- 10.A.Sri Elangeshwari-1404109

Accompanying Staff: Mrs. SP.Nandhini

Thanking You,

Place: Sivakasi

Date: 16.09,2015

Yours sincerely,

(staff-in-charge)

B



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



MEMORANDUM OF UNDERSTANDING

This Agreement (hereinafter referred to as MOU) is made and executed on 09-04-2015. BY AND BETWEEN

INSTITUTE OF LANGUAGE MANAGEMENT Pvt. Ltd., having its office at # 48/49/50, "Ashok Plaza", 3rd Floor, Gandhi Baznar Main Road, Basavanagudi, Bangalore-560004, represented by its Directors Ms. Ronila Kalro and Mr. Sanjay Subramanya.T, (hereinafter referred to as 1st Party, 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 conducting training / recreational training in English / art of Communicative skills and also assessments/examinations/tests in English/art of communicative skills etc., to the school/college students.

The 1st Party having necessary experience and knowledge in this field, conducts the classes by deputing its professionals/faculties to conduct the training / recreational training in English / in the art of Communicative skills in English.

WHERE as the 2nd party is an Educational Institution running a government recognized school/college, is in need of an Educational organization / Institution to train their students in English as part of the curriculum/recreational classes in the art of language skills and assessments examination for its students in English has entrusted the task to the 1st party on the following terms examination for its students in English has entitiated in the students in Classes / coaching) and conditions. (Please refer Annexure-1 for the Scope of ILM training / classes / coaching)

1st Party
(Seal & Signature)

(Seal & Signature)

(Seal & Signature)

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

0KX2002PTC0310

Page 1 of 8

W THIS MOU WITNESSTH:

hat both 1st and 2nd party have hereby agreed for following terms and conditions:

Training:

- a) The classes will be conducted at The Standard Fireworks Rajaratnam College for Women, Thiruthangal Road, Sivakasi - 626 123, Virudhunagar District, Tamil Nadu, shall be exclusively for the college students on an academic year basis (2015-2016) and shall not extend for more than 9 months in a particular academic year (i.e. from 2nd week of June 2015 to Last week of March 2016).
- 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 on 2nd week of June 2015 or otherwise as decided by both the parties in writing.
- d) The number of classes for the Academic year shall be at the rate of 2 (Two) periods per week per section.
- 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 classes with in the college working hours (max 8 hours per day) with the consent of the 1st party.
- No books / course materials will be issued to the 2nd party.
- No books / course materials will be issued to the 2nd party.
 The 2nd party will provide the standard from 1st year UG to 2nd year UG for the training. The total number of divisions/sections are 28 (Twenty Eight).
- h) The 1st party will be deploying 2 (Two) faculties.

PAYMENTS AND CONSIDERATION:

- a) It is agreed by both the Parties that 1st Party shall conduct the classes and total number of students are determined as 1262 (One Thousand Two Hundred Sixty Two) subject to enhancement as actual. The 2nd party has agreed to pay of Rs.500/- (Five Hundred) per student for the academic year 2015-2016, the fee for the next academic year will be determined later on.
- b) It is understood that the amount herein agreed to be payable is Rs.6,31,000/- (Rupees Six Lakh Thirty One Thousand Only) and the 2nd Party shall pay the consolidated amount in two installments the first installment 50% of the total amount in the month of June 2015 i.e. Rs.3,15,500/-, and the second installment 50% of the total amount in the month of March 2016 i.e. Rs.3,15,500/-.

1st Party

2nd Party

(Seal & Signature)

For Institute of Language Management (P) Ltd

The Standard Fireworks Rajaratnam College for Women,

SIVAKASI.

ILM / F / 16 / 1.1

CIN: U22110KA2002PTC031097

Page 3 of 8

Conlaik

RTS:

iLM encourages its clients for reporting the performance of the faculties and the course 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.

b) 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 are going on smoothly. ILM will not be responsible for the consequences of any underlying issue that remain unreported

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 faculties 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, laboratories, 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 WOOD YEAR FIRST HEREIN ABOVE WRITTEN.

1st Party

(Seal & Signature)

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

BANGALORE 2

2nd 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 CIN: 920110KA2002PTC031097

ILM / F / 16 / 1.1

Annexure - 1

Scope of the Teaching / Training / Coaching

The 1st party and the 2nd party agree on the scope of the training for the students as below: -

Learning a language and effective communicative skills is an art and also comprises the learning of the culture involved within that language, where the students learn through regular learning and practice methods.

ILM's English training / Communicative English course being a recreational learning and also a part of the curriculum for the students the 2nd party agrees to give two periods per division / section per week during the school / college working hours to the 1st party. The teaching would focus on improving the English knowledge / communication skills in English.

Special emphasis would be on simple conversation, situational language, vocabulary building, grammar, pronunciation, etiquette, manners and other aspects of communication which go a long way developing the overall personality of students. The students would also be trained in public speaking, body language, Presentation skills, personality development, drama, theatre etc as per their standards.

ILM's classes are interactive, recreational and fun filled learning where the students are motivated to interact with their counterpart, participate in many skills exhibiting activities, drama performances, presentations etc. In addition to the class room teaching a minimum of ten fun-filled, recreational and effective learning activities would be introduced in every term where the students get an opportunity to improve and exhibit their interaction and confidence level by participating in those activities.

ILM will be conducting the assessment / examination in English / art of communicative skills of the students on a term basis or half yearly or full year basis as decided by the parties from case to case.

1st Party

H Ronda/ For Stall the Stranguage Management (P) Ltd.

2nd Party (Seal & Signature)

The Standard Fireworks Rajaramam 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 2015 - 2016]

Hour	1	Room	n	Room	ш	Room	IV	Room	Y	Room
Day t	I Tentil I Nutrition	8 38	H Eng (R + SF) Reg SP	35 36	1 IICA	1.7 48 14	I Maths + I Pashion • 1 - 20 • 51 - semaining	5 38	I His + I Miero • 1 - 40 • 41- remaining	C14 38
Dig II	I Eng (R + SF) • Reg • SF	33 34	I His + I Micro • 1 - 40 • 41 - remaining	C14 38	II Chom II But	1 47	II Hist + 11 Micro • 1 -40 • 41 - remaining	C12 LabShed Class	l Physics I Comp Sci	38 CH
Duy III	II Phy II Comp.Sci	38 C5	I Maths + I Fashion • 1 - 50 • 51 - remaining	5 38	II Chem II But	1 47	n.m.	Т6	II Eng (R+SF) • Reg • SF	35 36
Day IV	I Maths (SF)	31	II Tamil + II Nutrition • 1 - 40 • 41 - termining	9 38	II Hist + II Micro • 1 – 40 • 41 – mmaining	C12	I Eng (R + SF) • Reg • SF	33 34	I Chem I But	7 38

Des	(# c)	Room	11	Ream	:111	Room	.P	Ross	V	Reom
Day V	шт	76	II Physics II Comp Sci	38 CS	II Tamil + II Nutrition • -40 • 41 - remaining	9 38	If Maths •1-25 •36 - remaining	29 38	1 Tamil + 1 Nutrition • 1 - 40 • 41 - nemaining	8 38
Bay VI	11 Maths •1 - 50 •51 - remaining	29 38	I BCA L II	T4 -T*7	I Chem I Bet	100	I Physics I Comp Sei	38 CH	I Maths (SF)	31

CO-ORDINATION

PRINCIPAL

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI ILM Communicative English – Time Table [Even Semester 2015–2016]

Day	1	Room	и	Room	m	Room	IV	Raum	v	Room
Day i	I Eng PDI SF [RA]	33 34	l Tamil [PD]	8	II Tamil + II Nutrition • 1 - 45 [PD] • 46 - remaining [RA]	9	I Physics [PD] I CSc [RA]	40 CU	II Physics [PD] II Comp. Sci [RA]	46 CS
Day 18	I BCA [PD] I B.Se IT [RA]	T4 17	D Eng Pog [PD] SF [RA]	35 36	II Chem [PD] II Bot [RA]	1 40	• Reg (PD) • SP (RA)	33 34	I Maths(CA) + I Nutrition • 1-40 [PD] • 41- • remaining [RA]	26 40
Day III	II Maths [PD] II B.Se IT [RA]	31 T6	I His + I Micro • 1 - 40 [PD] • 41 - remaining [RA]	C13	I B.Sc IT [FD]	77	II His + HMicro 1 - 40 [PD] 41 - remaining [RA]	C14 40	II Physics [PD] II Comp. Sci [RA]	46 C5

Bour	1	Room	п	Room	ш	Room	IV	Room	2. V	Room
Day IV	II Hist + II Micro • 1 – 45 [PD] • 46 – remaining [RA]	C14 40	II Maths [PD]	31	I Chem [PD] I Bot [RA]	40 47	I Maths(R) + I Fashion • 1 - 50 [PD] • 51 - remaining [RA]	5 40	I Tamil [PD]	8
Day V	II Eng • Reg [PD] • SF [RA]	35 36	I His + I Micro • 1 - 40 [PD] • 41 - remaining [RA]	C13	II Chem[PD]	1 47	17 <u>1</u> 2.		I Physics [PD] I Comp. Sci [RA]	40 C11
Day VI	I Maths(CA) + I Nutrition • 1-40 [PD] • 41- remaining [RA]	26 40	II Tamil + II Nutrition • 1 – 45 [PD] • 46 – remaining [RA]	9 40	I BCA [PD] II B.Sc IT [RA]	T4 T6	I Chem [PD]	40 47	I Maths(R) + I Fashion • 1 - 50 [PD] • 51 - remaining [RA]	5 40

Coordinator

Déasitela Principal