



**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 & 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, குட்டியனஞ்சான் தெரு.

சிவகாசி - 626 123.

செவ்விடபேசி : 98435 77110 மின்னஞ்சல் : sivakasi@gmail.com

விடியலுக்காக காத்திருக்க நாம் சூரியகாந்திகள் அவ்வ... நாம்தான் சூரியன்!

நாள் : 5.4.16

புரிந்துணர்வு ஒப்பந்தம் (MOU)

சிவகாசி, கந்தகப்பூக்கள் இலக்கிய அமைப்பும், சிவகாசி எஸ்.எ.பி.ஆர் மகளிர் கல்லூரியின் (தன்னாட்சி) தமிழ் உபயோகப் பையமும் இணைந்து செய்து கொள்ளும் புரிந்துணர்வு ஒப்பந்தம்.

- ✓ கந்தகப்பூக்கள் இலக்கிய அமைப்பு நடத்தும் போட்டிகளில் மாணவிகளைப் பங்கேற்கச்செய்தல்.
- ✓ படைப்பாக்கத்திற்குள் தோட்பாடான பயிலுங்களை திகழ்த்துதல்.
- ✓ கந்தகப்பூக்கள் இலக்கிய அமைப்புடன் இணைந்து மாணவிகள் பயனுறும் சுருந்தரங்குகள் திகழ்த்துதல்.

ஒப்பந்தத்திற்கான கால எல்லை 2016 முதல் 2021 வரை

தலைவர் & செயலாளர்

கந்தகப்பூக்கள் இலக்கிய அமைப்பு,

சிவகாசி

09 01 16
5/4/16

துளசித்தலைவர்

தமிழ் உபயோகப் பையம்,

எஸ்.எ.பி.ஆர் மகளிர் கல்லூரி,

சிவகாசி

09 01 16
5/4/16

எஸ்.எ.பி.ஆர் மகளிர்கல்லூரி,

சிவகாசி.

முதல்வர்

ஸ்டாண்டர்டு பயர் ஒர்க்ஸ்
விவகாசி

ஆசிரியர் குழு :

கந்தகப்பூக்கள் பூப்பதி : +91 98435 77110,
யுவாபரதி கந்தகப்பூக்கள் : +91 98437 53894
கந்தகக்கவி பாண்டு : +91 98436 10020.

WORKSHOP

தில்லாண்டர்டு ஃபயர்ஓர்க்ஸ் இராஜரத்தினம் மகளிர் கல்லூரி, (தன்னாட்சி)
(ஆற்றல்சால் கல்லூரி, தேசியத் தர நிர்ணயக் குழுவின் மறுமதிப்பீட்டில் 'A' தரம் பெற்றது)



சிவகாசி
தமிழ்த்துறை
செய்தி அறிக்கை
ஒரு நாள் பயிவரங்கம்
படைப்புத் படைப்புக் கோட்பாடுகளும்

சிவகாசி எஸ். எஃப். ஆர். மகளிர் கல்லூரியின் தமிழ்த்துறையில் மாணவர்களுடைய படைப்புத் திறனை வெளிக்கொண்டு வரும் நோக்கத்துடன் 06.08.2015 அன்று படைப்புத் படைப்புக் கோட்பாடுகளும் என்னும் தலைப்பிலான ஒரு நாள் பயிவரங்கம் நடத்தப்பட்டது. நிகழ்ச்சியின் தொடக்கமாக எஸ்.எஃப்.ஆர். மகளிர் கல்லூரியின் தமிழ்த்துறை உதவிப்பேராசிரியர் முனைவர். திருமதி இரா. செண்பகவள்ளி அவர்கள் அனைவரையும் வரவேற்றார். முதல்அமர்வின் பயிற்றுரைஞர், வி.இரா.செந்திக்குமார் நாடார் கல்லூரி, தமிழ்த்துறை உதவிப்பேராசிரியர் திரு.பெ.க.பெரியசாமிராஜா அவர்கள் கோட்பாட்டு வெளிச்சத்தில் படைப்புகளை அணுகுதல் என்னும் தலைப்பில் உரையாற்றினார். ஒவ்வொரு படைப்பாளருக்கும் தனித்தனித் தடையாளங்கள் அமைதல் வேண்டும் என்று வேண்டுகோள் விடுத்தார். மாணவர்களுக்கு நடைமுறைச் சூழலுக்கு ஏற்றவாறு திரைப்படச்சான்று காட்டி பெண்ணிய, மார்க்சிய கோட்பாடுகளை விளக்கிப் பயிற்றுரையாற்றினார். இரண்டாவது அமர்வின் பயிற்றுரை தமிழ்த்துறை உதவிப்பேராசிரியர் முனைவர். திருமதிநா.கவிதா அவர்கள் அறிமுகப்படுத்தினார். இரண்டாவது அமர்வில், விருதுநகர் மாவட்ட தமிழ்நாடு கலை இலக்கியப் பெருமன்றத் தலைவர் திரு. சுந்தரப்பூக்கன் பூதி அவர்கள் நானும் என் படைப்புகளும் என்ற தலைப்பில் பயிற்றுரையாற்றினார். தன்னுடைய படைப்பு உருவாக்கம் மற்றும் படைப்பு அனுபவம் குறித்து பயிற்றுரையாற்றினார். படைப்புகளின் பாடுபொருள் காவத்திற்கேற்ப மாறுபடும் பான்மையைச் சான்றுகளுடன் முன்வைத்தார். பயிவரங்க நிறைவில் இளங்கலைத் தமிழ் இரண்டாமாண்டு மாணவி செல்வி நாகேல்வரி நன்றிபுரை வழங்கினார். இப்பயிவரங்கில் 14 தமிழ்த்துறை பேராசிரியர்களும், 261 மாணவியரும் பங்கேற்று பயனடைந்தனர். இப்பயிவரங்கினைத் தமிழ்த்துறைத் தலைவர் முனைவர் பி. பொன்னி அவர்கள் நன்முறையில் ஏற்பாடு செய்திருந்தார்.


ஒருக்கிணைப்பாளர்


துறைத்தலைவர்
Dr. B. PONNI
Head & Asst. Professor in Tamil,
The Standard Fireworks Rajarajam
College for Women, (Autonomous)
Sivakasi - 626 123.



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Name of the Department

: Department of Tamil

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



இந்திய மக்கள் நாடக மன்றம்

சிவகாசி கிளை

தொடர்புக்கு: 9025942516, 9345298048

தலைவர்:
தங்கனிமுத்து 9345258048

துணைத்தலைவர்:
இ.கீழுருகன் 9578852211

பேரவை:
A.R.M முத்து 9751572783

துணைப் பேரவை:
நாதாசன் 9488045040

பொருளாளி:
I. ம.ட.சாமி 9443441007

செயலகம்:
D. சரவணசுந்தர்
C. சண்முகரத்தினம்
மு. மாரிச்செல்வம்
V. கார்த்திக் வரன்
கா. அனோக் பாலராஜன்
R. மாரியப்பன்
K. கருப்பசாமி
S. அருண் பான்டி
R. வேல்முனி
சே. காளிராஜன்
S. மனோகரன்
N. சந்திர

ஆலோசனைக்குழு:
முனைவர் பொ.நா.சுவாமி
சந்தகப்பூக்கள் பூப்பதி
ஒயிட்.டி. பாலசு
யுகபாரதி சந்தகப்பூக்கள்
இலக்கிவராஜன்
ஸ்வரமஞ்சரி
விநோதன்
செவ்வநாசன்



புரிந்துணர்வு ஒப்பந்தம் (MOU)

சிவகாசி, இந்திய மக்கள் நாடக மன்றம், சிவகாசி என்பவர்களுக்கிடையே மகளிர் கல்லூரியின் (தங்கனி) தமிழ் உயரயின் வாய்மொழி இணைந்து செய்து கொள்ளும் புரிந்துணர்வு ஒப்பந்தம்.

- ✓ இந்திய மக்கள் நாடக மன்றம் நடத்தும் திரையிடல்களைக் மாணவிகளைப் பயிற்சி செய்வதில் உதவும்.
- ✓ 'நாடகப் பயிற்சி மற்றும் குறும்படக்கலை' தொடர்பான பயிற்சிகளைத் திறமையாக நடத்துவதில் உதவும்.
- ✓ குறும்படக் குழுவின் மூலம் கல்விப்படுத்தல்களை மேம்படுத்தும் மாணவிகளைக் கல்விப்படுத்தும் செயல்பாடு.

ஒப்பந்தத்திற்கான கால காலம்: 2016 முதல் 2021 வரை



தலைவர்
இ.ம.ட. சிவகாசி கிளை.



செயலாளர்
இ.ம.ட. சிவகாசி கிளை.



துணைத்தலைவர்
தமிழ் உயரயின் வாய்மொழி,
மகளிர் கல்லூரி கல்விக்கல்வி,
சிவகாசி



முதல்வர்
என்பவர்களுக்கிடையே,
சிவகாசி குறும்படக்
கல்விக்கல்வி பயிற்சி
இணைந்துள்ள மகளிர் கல்லூரி,
சிவகாசி.

SEMINAR

தி ஸ்டாண்டர்டு ஃபயர்ஓர்க்ஸ் இராஜரத்தினம் மகளிர் கல்லூரி, (தன்னாட்சி)

(ஆற்றல்சால் கல்லூரி, தேசியத் தர நிர்ணயக் குழுவின் மறுமதிப்பீட்டில் 'A' தரம் பெற்றது)


சிவகாசி

மாநில அளவிலான ஒருநாள் கருத்தரங்கம்

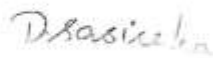
செய்தி அறிக்கை

சிவகாசி, எஸ்.எஃப்.ஆர்.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 திருமதி வி. 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 ஆய்வியல் கோட்பாடுகளுடன் இணைத்து ஆய்வுக்கட்டுரைகளை வழங்கினர். முதுகலை இரண்டாமாண்டு தமிழ் மாணவி செல்வி முபூங்கோதை நன்றி நவில கருத்தரங்கம் நிறைவுற்றது. தமிழ்த்துறைத்தலைவர் முனைவர் பா.பொன்னி அவர்கள் இக்கருத்தரங்கினை நன்முறையில் ஏற்பாடு செய்திருந்தார். இக்கருத்தரங்கில் தமிழ்த்துறை மாணவியர் மட்டுமின்றி பிறகல்லூரி தமிழ் மற்றும் ஆங்கிலத்துறை சார்ந்த 50 ஆய்வு மாணவர்களும் கலந்து கொண்டு பயன் அடைந்தனர்.


ஒருங்கிணைப்பாளர்


தமிழ்த்துறைத் தலைவர்

Dr. B. PONNI
Head & Asst. Professor
The Standard Fireworks R.,
College for Women, (Autonomous)
Sivakasi - 626 123.


முதல்வர்
முதல்வர்
ஸ்டாண்டர்டு ஃபயர் ஓர்க்ஸ்,
இராஜரத்தினம் மகளிர் கல்லூரி,
சிவகாசி.



**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,

The Standard Fireworks Rajaratnam College for Women,

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


CHAIRMAN,

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

Virudhunagar.



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,

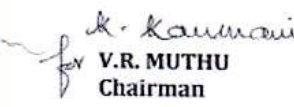
Greetings from Idhayam!

Sub: Confirmation of Industrial Visit.

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

With best wishes,

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


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 : varalotti@idhayam.c

IDHAYAM | SAMBANDHI | DELIT | DOT\$ | SIM SIM | TAHINI | WEALTH | MANTRA | HARDIL | VANG
1986 | 1992 | 1996 | 2001 | 2004 | 2005 | 2005 | 2006 | 2006 | 2009



**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:

1. Conducting jointly the Job Oriented Course on "Pre-School Education".
2. YRTV School teachers will handle the theory classes.
3. 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 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 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 at Sivakasi.

Basinche

PRINCIPAL

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

Yennarkay R. Ravindran Thilagavathy

PRINCIPAL

YENNARKAY R. RAVINDRAN THILAGAVATHY
VIDHYASALA MATRICULATION HIGHER
SECONDARY SCHOOL, SIVAKASI

1. Witness

Dr. K. Rajeswari
28.8.16

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

2. Witness

Dr. M. Jayalakshmi

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

3. Witness

(Mrs. L. Muthu Latha)

(MRS. L. MUTHU LATHA)

K.G. TEACHER

YRTV Mat. Hr. Sec. School,
SIVAKASI.

Sl. No.	Reg. No.	NAME	2013-14				2014-15				2015-16				2016-17				2017-18			
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
D.Sc. (Computer Science)																						
45	1210074	S. Bhavani	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
B.Sc. (Information Technology)																						
46	1210034	R. Karalalokshmi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
47	1212056	R. Ramalakshmi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
48	1212042	V. Jagapriya	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
B.Sc. (Commerce Degree & Fashion)†																						
49	1314001	S. Manjula	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
50	1314007	S. Rajeswari	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
51	1314011	S. Thani	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
B.L.O.																						
52	1212002	G. Bala Akshara	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
53	1212041	B. Prasanna Devi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
54	1212015	S. Smita	✓	✓	→	Transferred		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Cutting Technology →																						
No. of Academic Present			40	42	43	44	52	52	40	45	52	52	47	40	44	44	45	47	52	45	52	40
Course Teacher			40	42	43	44	52	52	40	45	52	52	47	40	44	44	45	47	52	45	52	40
Shift in charge			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HOD			H. Rajalakshmi									H. Rajalakshmi										
Center Co-ordinator			C. Anu									C. Anu										
Principal			H.									H.										



**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 (EHEART)]
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

AND

*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:

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, Chennai.

II. Institute of Complimentary and Traditional Medicine, Chennai.

- 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.

S. Sasi
S. S. SASHI
PRINCIPAL
The Standard Fireworks Rajaratnam
College for Women,
SIVAKASI.

P. J. S. S. S.
MANAGING TRUSTEE
Institute of Complimentary and Traditional Medicine,
Chennai.
(Eswar Health Education And Research Trust)

SELF EMPLOYMENT COURSE - HERBAL ENTREPRENEURSHIP

		2016 - Even										
		14USE68 - Herbal Entrepreneurship										
Roll No.	Name of the Student	28-10-16	5-10-16	19-10-16	2-11-16	9-11-16	23/11/16	6/12/16	20/12/16	27/12/16	12/1/17	19/1/17
		<u>B.A. English (S.E.)</u>										
1.	1302366 K. Kaviya	/	/	/	/	/	/	/	/	/	/	/
2.	1302360 V. Gayathri	/	/	/	/	/	/	/	/	/	/	/
3.	1302331 S. Meerauguna	/	/	/	/	/	/	/	/	/	/	/
4.	1302373 M. Santhanaselvi	/	/	/	/	/	/	/	/	/	/	/
5.	1302335 S. Nandhini	/	/	/	/	/	OP	/	/	/	/	/
6.	1302322 P. Ranga devi	/	/	/	/	/	OP	/	/	/	/	/
7.	1302321 G. Hemalatha	a	/	/	/	/	/	a	/	/	/	/
8.	1302363 F. Iyysin glorilah	/	/	/	/	a	/	/	/	/	/	/
9.	1302379 M. Jayalakshmi	/	/	/	/	/	OP	/	/	/	/	/
		<u>(B.A. English (Reg))</u>										
10.	1302046 S. Kokila	/	/	/	/	/	/	/	/	/	a	/
11.	1302064 H. Pandi Devi	/	/	/	/	/	/	/	/	/	/	/
12.	1302047 S. Vigneshwari	/	/	/	/	a	/	/	/	a	a	/
13.	1302052 K. Dhivya	/	/	/	/	a	/	/	/	a	a	/
		<u>B.A. Tamil</u>										
14.	1301058 R. Manilakshmi	/	/	/	/	/	/	/	/	/	/	/
15.	1301050 S. Ayyammal	/	/	/	/	/	/	/	/	/	/	/
		<u>BCA</u>										
16.	1313020 R. Rathna priya	/	/	/	/	/	/	/	/	/	a	/
17.	1313046 H. Anbuselvi	/	/	/	/	a	/	/	/	a	/	/
18.	1313037 B. Suba Devi	/	/	/	/	/	OP	/	/	/	/	/
19.	1313007 S. Ramya	/	/	/	/	a	/	a	/	/	/	a
20.	1313045 K. Geerthana	/	/	/	/	/	/	/	/	/	/	/
		<u>B.com (Reg)</u>										
21.	1309044 J. Thangamanickan	/	/	/	/	/	/	/	/	/	/	/
		<u>B.com (SE)</u>										
22.	1311076 K. Nuthukoodammal	/	/	/	/	/	/	/	/	/	/	/
23.	1311030 M. Santhanalakshmi	/	/	/	/	/	/	/	/	/	/	/
24.	1311024 K. Harichavanthini	/	/	/	/	/	/	/	/	/	/	/
25.	1311074 K. Gayathiri	a	/	/	/	/	/	/	/	/	/	/
26.	1311014 B. Santhi	/	/	/	/	/	/	/	/	/	/	/
27.	131127 T. Pandiselvi	/	/	/	/	a	/	/	/	/	/	/
28.	1311172 M. Mahalakshmi	/	/	/	/	/	/	/	/	/	/	/
29.	1311112 G. Sundralakshmi	/	/	/	/	/	/	/	/	/	/	/
		<u>B.com SE(CA)</u>										
31.	1311104 M. Manichellam	a	/	/	/	/	/	/	/	/	/	/

			30.12.15	5.12.15	19.12.15	2.1.16	9.1.16	23/1/16	6/2/16	20/2/16	27/2/16	12.3/16	17/3/16	
32	1311175	B. Lakshmi	/	/	/	/	/	/	/	/	/	/	/	
33	1811172	Si. Keerthika	/	/	/	/	/	/	/	/	/	/	/	
34	1311133	M. Rajeswari	/	/	/	/	/	/	/	/	/	/	/	
35	1311174	V. Lavanya	/	/	/	/	/	/	/	/	/	/	/	
36	1311181	C. Muneeswari	/	/	/	/	/	/	/	/	/	/	a	
<u>Botany</u>														
37	1307043	A. Vishnupriya	/	/	/	/	/	/	/	/	/	/	/	
38	1307003	A. Muthupriya	a	a	/	/	/	/	/	/	/	/	/	
39	1307009	V. Sanmugaselvi	/	/	/	/	/	/	/	a	/	/	/	
40	1307001	B. Sudha	/	/	/	/	/	/	/	/	/	/	/	
41	1307042	B. Vijaya Lakshmi	/	/	/	/	/	/	/	/	/	/	/	
42	1307027	M. Sanjeetha	/	/	/	/	/	/	/	/	/	/	/	
43	1307021	S. Annalakshmi	/	/	/	/	/	/	/	/	/	/	/	
44	1307015	A. Pavithra	/	/	/	/	/	/	/	/	/	/	/	
<u>Computer Science</u>														
45	1308042	T. Manisha Devi	a	a	a	/	/	/	/	/	/	/	/	
46	1308047	S. Ramya	/	/	/	/	/	/	/	/	/	/	/	
47	1308050	M. Padmapriya	/	/	a	a	/	/	/	/	/	/	/	
48	1308044	R. Anantha Lakshmi	a	a	/	/	/	/	/	/	/	/	/	
	1308033	A. Anaga Anthony Raja Vinay Mathu	/	/	/	/	/	/	/	/	/	/	/	
49	1304019	A. Silviya Arul Selvi	/	/	/	/	/	/	/	/	/	/	/	
50	1304064	S. Kalleswari	/	/	/	/	/	/	/	/	/	/	/	
51	1304068	S. Karthiga	/	/	/	/	/	/	/	/	/	/	/	
<u>Nutrition & Dietetics</u>														
52	1315006	S. Ponmalay	a	a	/	/	/	/	/	/	/	/	/	
<u>B.Com (Reg)</u>														
53	1309045	Gr. Padmavathi	/	/	/	/	/	/	/	/	/	/	/	
54	1309031	R. Ramalakshmi	/	/	/	/	/	/	/	/	/	/	/	
55	1309046	Gr. Santhi	/	/	/	/	/	/	/	/	/	/	/	
Signature of the course Teacher			[Signatures]					[Signatures]						
Signature of Teacher in charge			[Signatures]					[Signatures]						
Signature of HOD			[Signatures]					[Signatures]						
Signature of JOC coordinator			[Signatures]					[Signatures]						
Signature of PRINCIPAL			[Signature]					[Signature]						

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

Cell : 98423 47842



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

Date : 1.11.15

To,
Dr. Mrs. D. Sasireka,
The Principal,
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 Employed 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

THE STANDARD FIREWORKS RAJARATNAM COLLEGE FOR WOMEN, SIVAKASI					AN AUTONOMOUS INSTITUTION, ACCREDITED WITH FIVE STAR STATUS BY NAAC 24													
CLASS II UG					2015 - 2016													
COURSE CODE & TITLE : TSE69 CELL PHONE SERVICING																		
COURSE TEACHER : Mr. Sabari Gougon, MVA S. Somasundaram																		
SNO	Reg. No.	NAME	ROLL NO	MATOR	18-11	05-12	19-12	02-01	16-01	30-01	13-02	27-02	13-03	27-03	10-04	24-04	08-05	22-05
1	13UT021 1301050	M. Malathi	1301052	Tamil	a	x	X	X	X	X	X	X	a	/	a	X		
2	13UT038	P. Pandiela	1301055	"	X	X	X	X	X	X	X	X	/	X	X			
3	13UE055	K. Sankaragomathi	1302021	English (R)	X	X	X	X	X	X	X	X	/	X	X			
4	13UE060	E. Selvapriya	1302044	"	X	X	X	X	X	X	X	X	/	X	X			
5	13UE150	G. Punitha	1302310	English (SR)	X	X	X	X	X	X	X	X	/	X	X			
6	13UE149	G. Priyanga	1302327	"	X	X	X	X	X	X	X	X	/	X	X			
7	13UE129	R. Karthika	1302343	"	X	X	X	X	X	X	X	X	/	X	X			
8	13UH001	M. Nithya	1303011	History	X	X	X	X	X	X	X	X	/	X	X			
9	13UH009	A. Kalliammani	1303024	"	X	X	X	X	X	X	X	X	/	X	X			
10	13UH021	G. Pandimeena	1303026	"	X	X	X	X	X	X	X	X	/	X	X			
11	13UM071	S. Tamilulu	1304010	Mathe	X	X	X	OD	X	X	X	X	/	X	X			
12	13UM044	P. Muthulakshmi	1304050	"	X	X	X	X	X	X	X	X	/	X	X			
13	13UP048	T. Sheela Priya	1305028	Physics	X	X	X	OD	X	X	X	X	/	X	X			
14	13UP035	T. Pragatheswari	1305051	"	X	X	X	X	X	X	X	X	/	X	X			
15	13UC008	S. Divya	1306004	Chemistry	X	X	X	a	X	X	X	X	/	OD	X	OD		
16	13UC034	V. Rakshi	1306023	"	X	X	X	X	X	X	X	X	/	OD	X	OD		
17	13UC039	M. Saranya	1306049	"	X	X	X	a	X	X	X	X	/	OD	X	OD		
18	13UB005	P. Celestin Sheela	1307032	Botany	X	X	a	X	X	X	X	X	/	X	X			
19	13U5006	A. Ayusha Parveen	1308001	Computer Science	X	X	a	a	X	X	a	X	/	X	X			
20	13U5038	R. Sankarshwari	1308007	"	X	X	X	X	X	X	X	X	/	X	X			
21	13U5046	T. Yashmin Shifa	1308012	"	X	X	a	X	X	X	X	X	/	X	X			
22	13U5054	K. Rajathi	1308022	"	X	X	X	X	X	X	X	X	/	OD	X	X		
23	13U5029	P. Prindiyammal	1308025	"	X	X	X	OD	X	OD	X	X	/	X	X			
24	13U5012	A. Fathima Ravana	1308031	"	X	X	X	X	X	X	X	X	/	OD	X	X		
25	13U5043	P. Suredha	1308034	"	X	X	X	X	X	X	X	X	/	X	X			
26	13U5045	K. Vidhya Pragasanthini	1308049	"	X	X	X	X	X	X	X	X	/	OD	X	X		
27	13UA024	M. Muneeswar	1310037	B.Com (R)(A)	X	X	a	X	X	X	X	X	/	X	X			
28	13UA003	M. Akalya	1310026	BBA	X	X	X	X	X	X	X	X	/	X	X			
29	13UA020	K. Maheswari	1310038	"	X	X	X	X	X	X	X	X	/	X	X			

Sl No	Reg No.	NAME	ROLL NO	MAJOR	28	04	04	12	02	01	02	04	04	02	02	02	02	02	02
30	13UA032	R. Prayaska	1310048	-	Y	Y	X	X	X	X	Y	Y	Y	Y	Y	Y	Y	Y	X
31	13VK103	S. Bharathi	1311018	B.com(SS)(A)	Y	X	X	X	X	Y	A	Y	Y	Y	Y	Y	Y	Y	X
32	12VK101	M. Athilakshmi	1311021	-	Y	X	X	Y	Y	X	X	Y	Y	Y	Y	Y	Y	Y	X
33	13UV120	P. Karthaswari	1311152	B.Law(SS)(B)	X	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X
34	13UV141	M. Muthulakshmi	1311183	-	X	Y	X	X	Y	X	Y	Y	Y	Y	Y	Y	Y	Y	X
35	13UV129	M. Lakha	1311185	-	Y	Y	Y	X	Y	A	A	Y	Y	Y	Y	Y	Y	Y	X
36	13VN019	B. Thamarai	1312014	IT	Y	Y	X	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X
37	13VN050	K. Thangamani	1312017	-	Y	Y	Y	X	X	X	Y	Y	Y	Y	Y	Y	Y	Y	X
38	13VN048	K. Tajjathima	1312022	-	Y	Y	X	X	X	Y	Y	Y	Y	Y	Y	Y	Y	Y	X
39	13VN032	M. Rahima Banu	1312036	-	Y	Y	Y	X	X	Y	Y	Y	Y	Y	Y	Y	Y	Y	X
40	-	S. Syed Ali Fathima	1312041	-	A	X	X	A	A	A	A	A	A	A	A	A	A	A	A
41	13UL020	P. Kantha	1313056	BCA	X	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X
42	13UL041	N. Narimathadevi	1313059	-	A	X	Y	A	X	A	Y	A	Y	Y	Y	Y	Y	Y	X
43	13UL097	K. Madhumitha	1313061	-	A	X	A	A	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X
44	13UF017	K. Sarthiya	1314003	CD&F	X	X	A	A	Y	A	X	Y	Y	Y	Y	Y	Y	Y	X
45	13UF001	K. Abinajothi	1314004	-	Y	Y	Y	Y	Y	A	X	Y	Y	Y	Y	Y	Y	Y	X
46	13UF024	V. Vibha	1314006	-	X	A	X	X	Y	A	Y	A	Y	Y	Y	Y	Y	Y	X
47	13UF023	M. Umsalma	1314025	-	X	X	Y	X	Y	A	Y	Y	Y	Y	Y	Y	Y	Y	X
48	13UD004	G. Koushalya	1315002	Nutrition & Dietetics	A	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X
49	13UD018	P. Suganya	1315018	-	A	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X
50	13UD009	M. Lakshmi Priya	1315021	-	A	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	X

Course Teacher Signature:

(Handwritten signatures of course teachers)

Signature of HOD

(Handwritten signature of HOD)

Signature of Co-ordinator

(Handwritten signature of Co-ordinator)

Signature of Principal

(Handwritten signature of Principal)



**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 1st day of September 2014 at Sivakasi.

S. Selva Sekhavarapandian
DIRECTOR

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

D. Sasineha

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

1. Witness : *N. Ujaya*
Head of the Dept. of Physics
S.F.R. College for Women, Sivakasi.

2. Witness *Dr. G. Kasthuri*
Subramaniam Thangalini
Educational Trust
Member



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
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Abstract Thin films of blend polymer electrolytes comprising poly(vinyl alcohol) (PVA) and poly(vinyl pyrrolidone) (PVP) complexed with ammonium thiocyanate (NH_4SCN) 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 NH_4SCN content has been confirmed by XRD analysis. The addition of ammonium thiocyanate salt to PVA-PVP polymer blend shows a shift in T_g 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 $6.85 \times 10^{-4} \text{ S cm}^{-1}$ at room temperature has been observed for the blend with 50 mol% PVA-50 mol% PVP complexed with 40 mol% NH_4SCN . 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.

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

Introduction

The amorphous polymeric materials especially proton-conducting 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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³ Department of Nano Science and Technology, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu 641003, India

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

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

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View Table of Contents: <http://aip.scitation.org/oc/apc/1731/1>

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

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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 303 K has been found to be $3.25 \times 10^{-3} \text{ S cm}^{-1}$ for 20 mol % NH_4SCN doped 92.5PVA: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 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 of 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 $1.13 \times 10^{-7} \text{ S cm}^{-1}$ at room temperature [6]. In this work, proton conducting polymer blend electrolyte based on PVA-PAN doped with ammonium thiocyanate (NH_4SCN) 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 $\text{CuK}\alpha$ radiation at 40 KV and 30 mA in the 2 θ 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.^{a,b,c}, S. Selvasekarapandian^c, S. Karthikeyan^d, N. Vijaya^b, S. Sivadevi^b & C. Sanjeeviraja^a

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

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Revised Manuscript Received, August 28, 2015

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 $3.0 \times 10^{-4} \text{ S cm}^{-1}$ 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 Arrhenius plot. The dielectric spectra show low frequency dispersion. Ionic transference number (t_i) 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 $\text{Zn} + \text{ZnSO}_4 \cdot 7\text{H}_2\text{O}/92.5 \text{ PVA} : 7.5 \text{ PAN} : 30 \text{ wt \% LiBr/PbO}_2 + \text{V}_2\text{O}_5$ 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 electrochemical 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 composi-

tional 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 semicrystalline, synthetic resin prepared by the polymerization of

¹ The article is published in the original.

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)

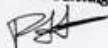
7. Students Strength

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

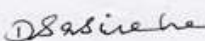
It is the responsibility of Party No.(1) to make available necessary learning resources to the students. Notes will be framed by Party No. (1) and approved by Party No.(2). Any tools of the trade required are the responsibility of the students to purchase.

For Bell Institute of Hotel Management
& Catering Technology



Principal

2


PRINCIPAL
The Standard Fireworks
Bajaratnam College
For Women
SHIVAKASI

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.

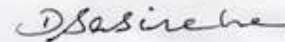
11. Validity of Agreement

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

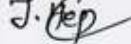


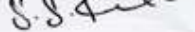
Party No.(1) Principal



Party No.(2)
PRINCIPAL

**The Standard Fireworks
Rajaratnam College
For Women
SIVAKASI**

Witness 1: 

Witness 2: 



**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

 **TCPS I.T. EDUCATION**
TIPS COMPUTER EDUCATION
(ALL OVER TAMILNADU)
BALA TIPS SOFTWARE PRIVATE LTD.,
AN ISO 9001 - 2008 CERTIFIED INSTITUTION
152, Main Road, SATTUR - 626203, Virudhunagar Dist ,Tamilnadu
Cell : 9894188859, 9442424640

 **TIPS**
The Institute of Personal Success
Computer Education

Rtn. PP.S. BALAMURUGAN
B.Sc., CS, BEd, M.C.A, M.B.A PGDCA.
DIRECTOR

Date :
01.06.2013

To
Dr. Mrs. D. Sasireka,
The Principal,
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 from 1st June 2013 to 31st May 2018 with regard to the conduct of a Life oriented course / Self Employment course on Tally Packages and Other Computer Courses. 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.



Best Regards,

Director
BALA TIPS SOFTWARE (P) LTD.,
(ISO 9001 - 2008 CERTIFIED)
152, Main Road,
Opp. S.H.N. Edward Hr. Sec. School,
SATTUR - 626 203.

website : www.tipstamil.com, email : tipstamil2012@gmail.com, tipstamil2014@gmail.com, bala_kaushik@yahoo.com



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 Applications

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



S.No.	Reg. No.	Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
31	1313041	P. S. Thyage	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
32	1313042	P. S. Thyage	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
33	1313043	K. Lakshmi	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
34	1313044	M. Kalavathi	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
35	1313045	A. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
36	1313046	G. Anandha Devi	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
37	1313047	T. S. Anandha Devi	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
38	1313048	M. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
39	1313049	P. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
40	1313050	P. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
41	1313051	V. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
42	1313052	S. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
43	1313053	B. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
44	1313054	A. S. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
45	1313055	T. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
46	1313056	B. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
47	1313057	A. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
48	1313058	M. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
49	1313059	T. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
50	1313060	A. Anandha	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Class Strength			30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
No. of Present			28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Signature of Staff in Charge			[Signature]										[Signature]									
Signature of Class Teacher			[Signature]										[Signature]									
Signature of Candidate			[Signature]										[Signature]									
Signature of Principal			[Signature]										[Signature]									



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

**: Viruthunagar District Cluster of
Colleges Joint Faculty Programme in
Mathematics**

Viruthunagar 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 Viruthunagar District affiliated to Madurai Kamaraj University, Madurai.

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, Virudhunagar.
4. V.V.V. College for Women, Virudhunagar.
5. S.R.N.M.College,Satur.
6. S.B.K.College, Aruppukottai.
7. Devangar Arts College, Aruppukottai.
8. Sri Kaliswari College, Sivakasi.
9. Rajapalayam Rajas' 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, Krishnankoil.

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

The Details are as follows:

- The Standard Fireworks Rajaratnam 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 think 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 also join.
- Teaching faculty from those colleges which do not offer PG course in Mathematics may attend 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 banner of "Viruthunagar District Cluster of Colleges Joint Faculty Programme in Mathematics".
- All the programmes are students oriented – inter collegiate quiz, guest lectures, paper presentation by the students, mathematical rangoli, dumb-C, model display and other innovative 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 Viradhunagar district may be the viewers.
- To create awareness of the great Indian Mathematician Srinivass 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 Viradhunagar 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 date above mentioned.

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

Principal
S.F.R.College for Women
Sivakasi

D. Sasireha
20/6/11
PRINCIPAL
The Standard Fireworks
Rajaratnam College
For Women
SIVAKASI.



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

Principal
A.N.J.A.College
Sivakasi.

S. N. J.
PRINCIPAL
Ayya Nader Jangali Ammal College
SIVAKASI - 626 124.

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

Principal
V.H.N.S.N.College
Viradhunagar.

[Signature]
20/6/11
PRINCIPAL
V.H.N.S.N. COLLEGE
VIRADHUNAGAR
HINDU NADAR
SERTIHKUMARA NADAR COLLEGE
VIRADHUNAGAR.



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

Principal
V.V.V. College for Women
Viradhunagar.

R. Selvamurali
20.6.11
PRINCIPAL
V.V.V. COLLEGE FOR WOMEN
VIRADHUNAGAR



GUEST LECTURE AND PAPER PRESENTATION

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. _____

20.06.2015

To

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-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 4.07.2015. 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:

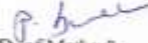
Planning the Programme for the Academic year 2015-2016.

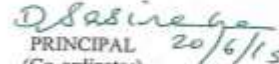
Date : 4.07.2014.

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
(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 Fire Works
Rajaratnam College for Women,
SIVAKASI.

* 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.sfrccollege.org.

28.7.2016

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

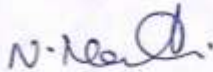
Dear Sir,

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



HOD


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,

R.Malinidevi
STAFF-IN-CHARGE

D.Sasireka
HOD

D.Sasireka
22/7/15
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 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. _____

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


HOD


PRINCIPAL 28/8/15

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

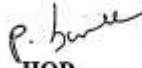
To
The Head,
Department of Mathematics,
SRNM College,
Sattur .

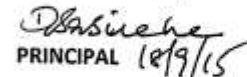
Dear Sir,

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


HOD


PRINCIPAL 18/9/15

* 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.sfrccollege.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

Place: Sivakasi

Date: 16.09.2015

Thanking You,

Yours sincerely,


(staff-in-charge)





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

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
Government of Karnataka

ನೋಂದಣಿ ಮತ್ತು ಮುದ್ರಾಂಕ ಇಲಾಖೆ
Registration and Stamps Department

ಈ ಪಾಳೆಯನ್ನು ಯಾವುದೇ ದಸ್ತಾವೇಜಿಗೆ ಬಳಸಬಹುದಾಗಿದೆ
This sheet can be used for any document

ವಿದ್ಯಾರ್ಥಿ ದಾಖಲೆ
Document Sheet

ಮೊತ್ತ : ರೂ. 2/-

ವಿದ್ಯಾರ್ಥಿ ದಾಖಲೆ
Date of execution

ಮಾಪಕನಿಗೆ ಪಾವತಿಯಾದ ಮುದ್ರಾಂಕ ಮೊತ್ತ ರೂ.
Total stamp duty paid Rs.

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 Bazaar 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 and conditions. (Please refer Annexure-1 for the Scope of ILM training / classes / coaching)

1st Party
(Seal & Signature) 

2nd Party
(Seal & Signature) 

 **OKA2002PTC031097**

Page 1 of 8

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

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.
- f) No books / course materials will be issued to the 2nd party.
- g) 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

(Seal & Signature)
For Institute of Language Management (P) Ltd



[Signature]
Directors

2nd Party
(Seal & Signature)

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

ARTS:

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 1ST AND 2ND YEAR FIRST HEREIN ABOVE WRITTEN.

1st Party

(Seal & Signature)

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



For Institute of Language Management (P) Ltd.

[Handwritten Signature]

Director

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: 520110KA2902PTC031097

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

(Seal & Signature) Management (P) Ltd.
For Institute of Language



Directors

2nd Party

(Seal & Signature)

D. Sasireka
Dr. D. SASIREKA
PRINCIPAL,
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 Day	I	Room	II	Room	III	Room	IV	Room	V	Room
Day I	I Tamil I Nutrition	8 38	II Eng (R + SF) • Reg • SF	35 36	I BCA I IT	T4 46 T7	I Maths + I Fashion • 1 – 30 • 51 – remaining	5 38	I His + I Micro • 1 – 40 • 41 – remaining	C14 38
Day II	I Eng (R + SF) • Reg • SF	33 34	I His + I Micro • 1 – 40 • 41 – remaining	C14 38	II Chem II Bot	1 47	II Hist + II Micro • 1 – 40 • 41 – remaining	C12 Lab/Shed Class	I Physics I Comp Sci	38 C11
Day III	II Phy II Comp.Sci	38 C5	I Maths + I Fashion • 1 – 30 • 51 – remaining	5 38	II Chem II Bot	1 47	II IT	T6	II Eng (R + SF) • Reg • SF	35 36
Day IV	I Maths (SF)	31	II Tamil + II Nutrition • 1 – 40 • 41 – remaining	9 38	II Hist + II Micro • 1 – 40 • 41 – remaining	C12 38	I Eng (R + SF) • Reg • SF	33 34	I Chem I Bot	7 38

Hour Day	I	Room	II	Room	III	Room	IV	Room	V	Room
Day V	II IT	T6	II Physics II Comp Sci	38 C5	II Tamil + II Nutrition • 1 – 40 • 41 – remaining	9 38	II Maths • 1 – 35 • 36 – remaining	29 38	I Tamil + I Nutrition • 1 – 40 • 41 – remaining	8 38
Day VI	II Maths • 1 – 30 • 51 – remaining	29 38	I BCA I IT	T4 46 T7	I Chem I Bot	38 47	I Physics I Comp Sci	38 C11	I Maths (SF)	31

CO-ORDINATOR

PRINCIPAL

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

Room Day	I	Room	II	Room	III	Room	IV	Room	V	Room
Day I	I Eng • Reg [PD] • SF [RA]	33 34	I Tamil [PD]	8	II Tamil + II Nutrition • 1-45 [PD] • 46-remaining [RA]	9 40	I Physics [PD] I CSe [RA]	40 C11	II Physics [PD] II Comp. Sci [RA]	46 C5
Day II	I BCA [PD] I B.Sc IT [RA]	T4 T7	II Eng • Reg [PD] • SF [RA]	35 36	II Chem [PD] II Bot [RA]	1 40	I Eng • Reg [PD] • SF [RA]	33 34	I Maths(CA) + I Nutrition • 1-40 [PD] • 41-remaining [RA]	26 40
Day III	II Maths [PD] II B.Sc IT [RA]	31 T6	I His + I Micro • 1-40 [PD] • 41-remaining [RA]	C13 40	I B.Sc IT [PD]	T7	II His + II Micro • 1-40 [PD] • 41-remaining [RA]	C14 40	II Physics [PD] II Comp. Sci [RA]	46 C5

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Room Day	I	Room	II	Room	III	Room	IV	Room	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 40	II Chem [PD] II Bot [RA]	1 47	--		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] I Bot [RA]	40 47	I Maths(R) + I Fashion • 1-50 [PD] • 51-remaining [RA]	5 40

[Signature]
Coordinator

[Signature]
Principal