PSMO College Tirurangadi

Institutional Best Practice – I

1. TITLE OF THE PRACTICE: PSMOC SAVE 'E' ELECTRONICS LLP

As Saving the energy is more economical than the production of electrical energy, we have developed a novel automatic ON/OFF sensor-based switching technology named 'Infrared Ray Controlled Automatic ON/OFF technology' (IRC Automatic ON/OFF technology) for the energy saving applications in the outdoor lights. A patent has been filed on this invention. For the production of the IRC automatic ON/OFF outdoor lights a company named 'PSMOC Save 'E' Electronics LLP' has been registered at the college campus and the trained students of the college have been employed as workers. This technology and the related products have great relevance in the society since they smartly save electrical energy. As a higher education institution, this invention meets the vision of Energy Conservation Act (EC Act) enacted in 2001 by the govt. of India with the goal of reducing energy intensity of Indian economy.

2. OBJECTIVES OF THE PRACTISE

- 1. Give training to the students in LED making and repairing.
- 2. Reuse of the damaged LED lamps
- 3. Implementation of a novel and innovative, sensor based technology.
- 4. It is proposed that skills developed through technological advanced knowledge via training programs that we have been organising will enable the students to make use of the technology leading to entrepreneurships in future
- 5. Producing different IRC automatic ON/OFF outdoor light products
- 6. Promotion of entrepreneurships and giving part-time or full-time job to students
- 7. Promotion of competence among students via skill development
- 8. Exploitation of the technology for the neighbouring community through collaboration with the local self-government
- 9. Conservation of energy and hence contributing to sustainable energy

3. CONTEXT

As per the energy modelling exercise undertaken by the NITI Aayog — India Energy Security Scenarios (IESS), 2047, the energy demand of India is likely to go up by 2.7-3.2 times between 2012 and 2040, with the electricity component itself rising 4.5 fold. The National Renewable Energy Act 2015, National energy policy 2017 and all energy policies of India have over the years directly aimed to raise per capita energy (and electricity) consumption. But the country has to still go a long way on securing its energy security objective.

The electrical energy is the energy of the future. Since the energy saving is more economical than the production of electrical energy, it is very much essential to develop new technologies that could save the electrical energy.

Currently, the technology used for auto ON/OFF in outdoor lights are Light Dependent Resistors (LDR) & Timer Circuits.

In LDR based outdoor lights, a separate transparent window is given to receive the light. Accumulation of dust and other materials (leaf, moisture etc) on the window may hinder the sensing capability of LDR. As a result, the bulb/street light glows continuously (24 hrs)

causing the energy loss and thus reduce its life span. The LDR sensor can detect all kind of light from the nearby sources (tube light, moon light, neon lamp light and lightning, etc.) and this may seriously affect the proper functioning of the bulb/streetlight. The spectral response is narrow. LDRs are highly inaccurate with high response time: On the receipt of the light from other sources, the resistance varies continuously in photo resistor and are rugged in nature. If the atmosphere temperature changes, LDR will give inaccurate result. So, the LDRs are highly inaccurate with high response time. LDR does not work well in the cloudy season too.

In the timer circuit based outdoor lights, a timer circuit is used to set the time to turn OFF or ON the device. This technology is highly undesirable in the cloudy season and in the winter season too and also not applicable in the countries/place where the day/night is shorter/longer.

Thus, at present no efficient automatic ON/OFF switching technology is available to control the outdoor lights. In this context, we have invented a novel Infrared Rays Controlled (IRC) Automatic ON/OFF outdoor lights and they overcome all the limitation of the already existing LDR and timer circuit technologies. The following are the major highlights of the (IRC) Automatic ON/OFF outdoor lights

- The automatic ON/OFF action in them is strictly controlled by the infrared rays (IR Rays) from the Sun. Hence, their working is not affected by the nearby lights, atmospheric temperature change, climate change, etc.
- Response is fast and accurate
- Since the IR rays can pass through small obstructions like dust, moisture, leaf etc. the deposition of such particles on the outdoor lights do not affect their operation
- No battery or timer circuit required for their operation. Hence, cost-effective.
- Outdoor lights maintain a constant intensity of light while working

4. THE PRACTICE

Based on the invention of the IRC automatic ON/OFF switching technology, the following four products for the outdoor functioning have been developed

INFRARED CONTROLLED (IRC) AUTOMATIC ON/OFF OUTDOOR LIGHTS

- 1) INFRARED CONTOLLED AUTOMATIC ON/OFF STREET LIGHTC (IRC STREET LIGHT)
- 2) INFRARED CONTOLLED AUTOMATIC ON/OFF LED BULB (IRC LED BULB)
- 3) INFRARED CONTOLLED AUTOMATIC ON/OFF BULB HOLDER (IRC BULB HOLDER)
- 4) INFRARED CONTOLLED SENSOR KIT (IRC SENSOR KIT)
 - A patent has been filed on this invention (Ref. No. 202041000197, Application no. TEMP/E1/57431/2019-CHE)

- The company has been registered as LLP under the Government of India Ministry of Corporate Affairs (LLP Identification Number: AAS-9685)
- Received startup India recognition (DIPP87298)

PRODUCTS

INFRARED CONTROLLED (IRC) AUTOMATIC ON/OFF OUTDOOR LIGHTS

1. INFRARED CONTOLLED AUTOMATIC ON/OFF STREET LIGHTC (IRC STREET LIGHT) (Available in Various Watt)







2. INFRARED CONTOLLED AUTOMATIC ON/OFF LED BULB (IRC LED BULB) (Available in various Watts)





3. INFRARED CONTOLLED AUTOMATIC ON/OFF BULB HOLDER (IRC BULB HOLDER)



• LED Bulb of any wattage can be fitted to this holder so that the bulb will automatically turn ON in the morning and OFF in the evening

4) INFRARED CONTOLLED SENSOR KIT (IRC SENSOR KIT)



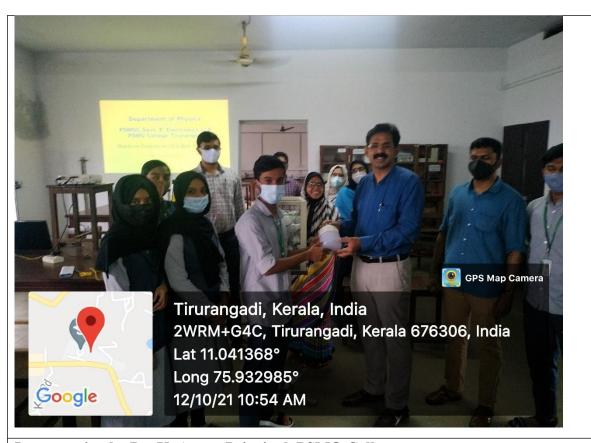
Using this single sensor kit several outdoor lights can be controlled (auto ON/OFF)

TRAINING

To equip with the students for the manufacturing of the above-mentioned products various training programs for the students as well as the neighbouring community have been conducted by the company in association with the department of Physics of the college

1. Hands on training on damaged LED bulb repairing for the B.Sc. Physics students

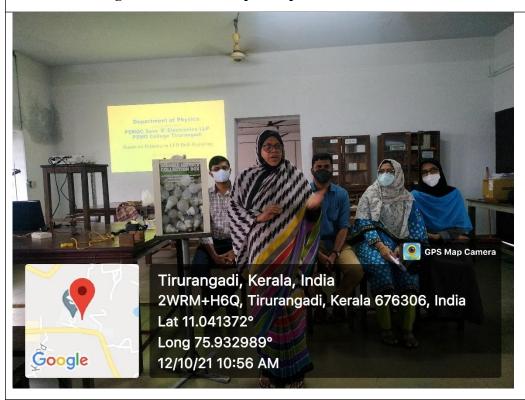
Hands on training on damaged LED bulb repairing have been conducted for students in and out of the college, by the company. For instance in the current academic year a hands on training was conducted for the B.Sc. Physics students on 12/10/2021. Dr. K. Azeez, the principal, PSMO College inaugurated the program. Mrs. Muneera P O, head of the department of Physics, Mr. Basim MB, Dr. Shiney, Mr. Shafi Ollakkan, Assistant Professor, PSMO College spoke in the program. Dr. Rashid T P, Assistant Professor and the designated partner of the LLP lead the training session. A total of 30 students got trained in the program and they repaired almost 30 LED bulbs. Some of the photos and their attendance list are given below.



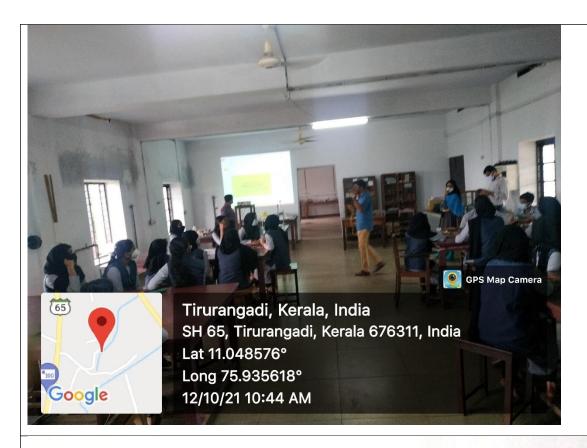
Inauguration by Dr. K. Azeez, Principal, PSMO College



Dr. K. Azeez, Principal, PSMO College inaugurating the function by handing over a collected damaged LED bulb to a participant



Felicitation talk by Mrs. Muneera P O, Head of the Department of Physics, PSMO



Department of Physics- PSMO College Tirurangadi In Association With PSMOC Save 'E' Electronics LLP,

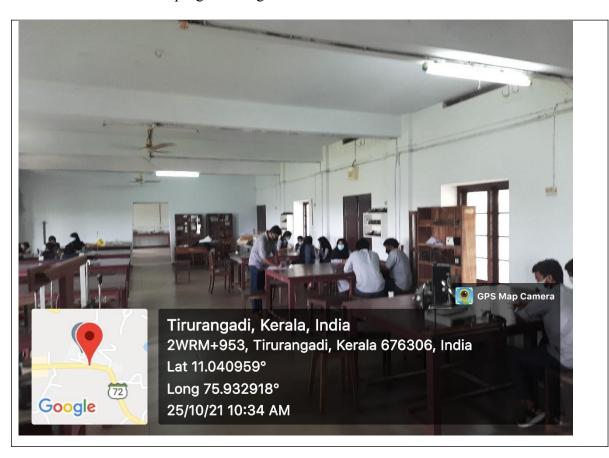
Hands-on Training on LED Bulb Repairing on 11 October 2021 Participants List

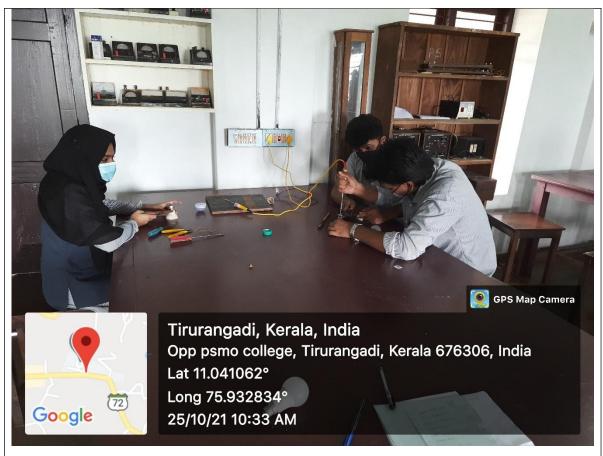
No Name	Contact Number	Email Address	Class
2 FIDA FATHIMA K		fidakanoth@gmail.com	
2 Najda Anvar T		najdaanvart@gmail.com	BSc III Sem Physics BSc III Sem Physics
3 Geethu Krishna Km			
, Al Fathima Hanah		geethukrishna326@gmail.com	BSc III Sem Physics
> 8/Shafna E k		fathimahanahvm13@gmail.com	BSc III Sem Physics
Suhaila Kadengal		Shafnaek2019@gmail.com	BSc III Sem Physics
Amal fida.M	6238152/85	Suhailakadengal@gmail. Com	BSc III Sem Physics
1 & SADA PV		amalfida123@gmail.com	BSc III Sem Physics
		sadabinthmansoor@gmail.com	BSc III Sem Physics
√9 Fathima Fida TP	8943633274	fidafathimathacharupadikkal@gmail.com	BSc III Sem Physics
10 FARSEENA.P		farseenap2002@gmail.com	BSc III Sem Physics
12 Basima		basimajafar50@gmail.com	BSc III Sem Physics
X 12 Fasna kk		fasnakkvga@gmail.com	BSc III Sem Physics
26 Anshiba . P. P		ppanshiba@gmail.com	BSc III Sem Physics
14 Majitha		majithamaju6@gmail.com	BSc III Sem Physics
15 Rana Fathima C	9895560966	ranachenadan@gmail.com	BSc III Sem Physics
46 Anjali P		pilakatanjali2018@gmail.com	BSc III Sem Physics
37 Shabas Ahmed	9605001662	shabasahmedmp20092001@gmail.com	BSc III Sem Physics
18 Hafeeda	9539340010	hafeedahaf@gmail.com	BSc III Sem Physics
18 Muhammed mishan. A T		mishanmishu454@gmail.com	BSc III Sem Physics
26 FATHIMA UNAISA V	8156871538	fathimaunaisa3@gmail.com	BSc III Sem Physics
22 Diya madappaliy	9074442425	diyamadappally2@gmail.com	BSc III Sem Physics
X Fathimathu Thasni KK	9526112330	fathimathuthasnikk@gmail.com	BSc III Sem Physics
28 NANDANA C SHEKHAR	8590524373	nandanacshekhar2@gmail.com	BSc III Sem Physics
24 Aysha Fidha KK		ayshafidhakk09@gmail.com	BSc III Sem Physics
28 Saleela		ssaleela3@gmail.com	BSc III Sem Physics
X 26 Mohammed Ashraf C P	7561841905	ashraf45pkd@gmail.com	BSc III Sem Physics
Swaliha PT		swalihapt20@gmail.com	BSc III Sem Physics
\26 Heena U		heenaismailu@gmail.com	BSc III Sem Physics

29 Akheel Haznan K	9497223404 akheelhaznan@gmail.com	BSc III Sem Physics	a
, 30 Sreehari.T	9895739411 tsreehari984@gmail.com	BSc III Sem Physics	
31 Nandana krishnan. C	9846817263 nandanashalu2002@gmail.com	m BSc III Sem Physics	K
32 AFEEFA MP	9048185904 afeefa1906@gmail.com	BSc III Sem Physics	1
33 SARANNYA.P	9895453750 sarannya717@gmail.com	BSc III Sem Physics	
-34 Aswin mp	7994859168 aswinmp9168@gmail.com	BSc III Sem Physics	
35 Nishda. P	7994885560 nishdapoochengal@gmail.com	BSc III Sem Physics	
38 Asif Igbal M	7736444302 asifmalavil12@gmail.com	BSc III Sem Physics	1

2. <u>Damaged LED Bulb repairing competition for students</u>

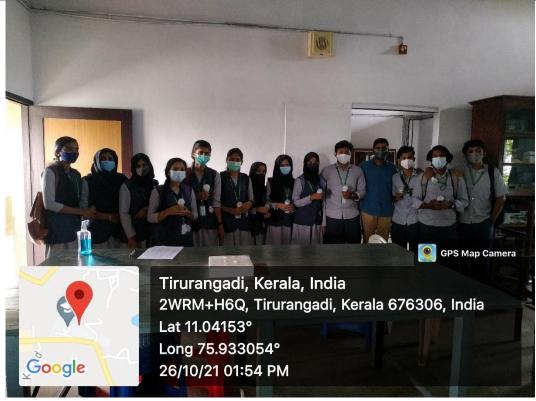
To select the students for the manufacturing of the products of the company (IRC Street light, IRC LED Bulb, IRC Bulb Holder and IRC sensor kit) a competition in the repairing of damaged LED bulb was conducted on 25/10/2021. Total of 17 students participated in the competition. Students were grouped into pairs. One damaged LED bulb was given to each group and allotted one and half hours for the repairing. All of them did well and all are found to fit for working with the company. The details of the program are given below.











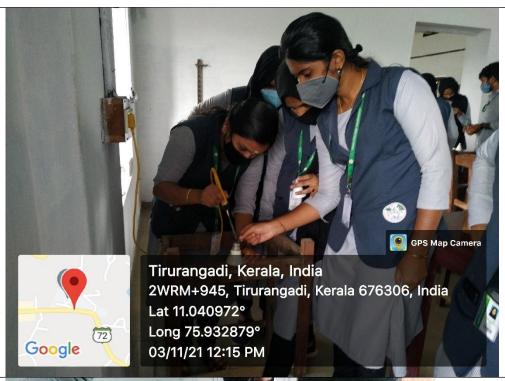
Winners of the contest

	F		nt of Physics ge, Tirurangadi		
	List of Students Registe		aged LED Bulb Repairing Comp 21 (Monday)	etition	
S. No.	PARTY BUTTON DE L'ANDRE DE L'ANDR		Email Address	Remarks	
1	Muhammed Mishan. A T	6282693644	mishanmishu454@gmail.com	22	
2	Geethu Krishna Km	9895409023	geethukrishna326@gmail.com	Custo.	
3	NAJDA ANVAR T	9745208713	najdaanvart@gmail.com		
4	Swaliha PT	9562245188	swalihapt20@gmail.com	Quality	
5	Majitha	9447842428	majithamaju6@gmail.com	Sytha	
6	Akheel Haznan K	9497223404	akheelhaznan@gmail.com	o Deserge	
7	Suhaila kadengal	6238152785	Suhailakadengal@gmail.com		
8	Saleela	8590356669	ssaleela3@gmail.com		
9	Diya madappally	9074442425	diyamadappally2@gmail.com		
10	Shabas Ahmed	9605001662	m		
11	FIDA FATHIMA K	8129465850	fidakanoth@gmail.com	130	
12	Heena U	9037029804	heenaismailu@gmail.com		
13	Nandana C Shekhar	8590524373	nandanacshekhar2@gmail.com	Tare Jacon	
14	Rana fathima C	9895560966	ranachenadan@gmail.com	panel	
15	Amal fida.M	8590538883	amalfida123@gmail.com		
16	Shafna E k	8590936404	Shafnaek2019@gmail.com		
17	Aysha Fidha KK	8129294595	ayshafidhakk09@gmail.com	0	
18	FARSEENA.P	9567039180	farseenap2002@gmail.com	Marie	
19	Nandana krishnan. C	9846817263	nandanashalu2002@gmail.com	Hat Mana	
21	Asif Iqbal M	7736444302	asifmalayil12@gmail.com	-	
22	SARANNYA.P	9895453750	sarannya717@gmail.com	Par	
23	SADA PV	6235798012	sadabinthmansoor@gmail.com		
24	Anjali P	8281308616	pilakatanjali2018@gmail.com		
25	Nishda. P	7994885560	nishdapoochengal@gmail.com	W.	
26	Fathima Hanah	7559926021	fathimahanahvm13@gmail.com		
27	Sreehari.T	9895739411	tsreehari984@gmail.com	agers)	

			nt of Physics e, Tirurangadi	
Li	st of Students Reg		nged LED Bulb Repairing Comp 1 (Monday)	oetition
28	Aswin-mp	7994859168	aswin mp 9168 @ ymail com	eg .
			<u> </u>	

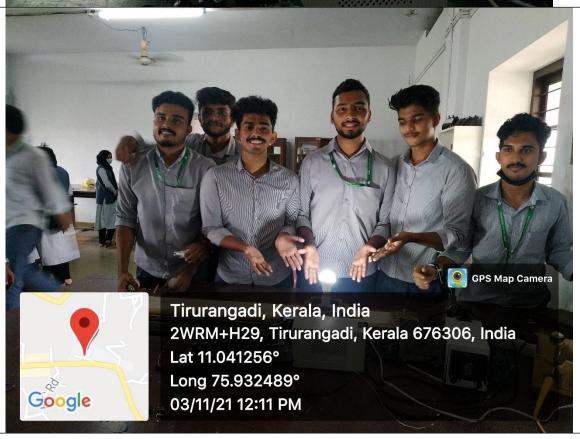
3. Hands on training on LED bulb repairing for the B.Com. students of the college

In order to share the knowledge of the LED bulb repairing, the company conducted an hands on training in the LED bulb repairing for the students of the commerce department on 03/11/2021. Dr. Rashid T P together with the trained students from the Physics Department lead the session. A total of 40 students were trained in the program











Damaged LED Bulb Collection Box

Damaged LED bulbs are found to be waste at homes and are thrown outside of our homes carelessly. This will create serious environmental problems. As a part of the 'E-waste recycling project' the Department of Physics, PSMO College under the banner of PSMOC SAVE 'E' ELECTRONICS LLP has placed a damaged LED bulb collection box in front of the college to collect all kind of damaged LED bulb from the students, staff and visitors. Every week the deposited bulbs are collected and, on an average, we are getting about 20 bulbs per week.

The trained students of the company repair the damaged LED bulb and sell through PSMOC SAVE 'E' ELECTRONICS LLP company with less price few months warranty. For this a selling this repaired LED bulbs and also the IRC automatic ON/OFF outdoor lights of the company a counter is started at the college.

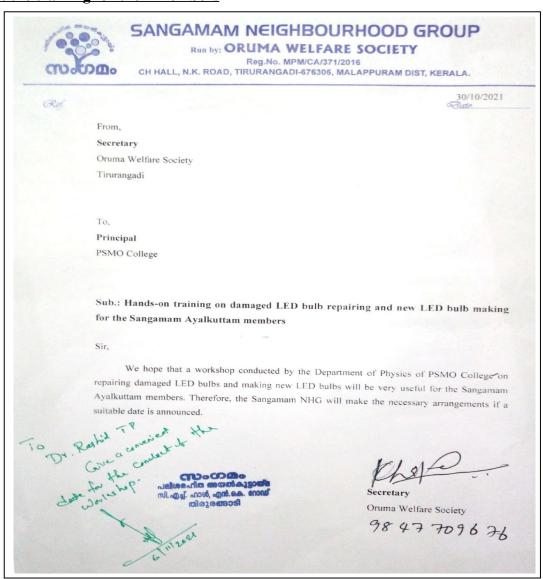
Training to the neighbouring community

Hands-on Training on Damaged LED Bulb Repairing and new LED bulb making for SANGAMAM NEIGHBOURHOOD GROUP Tirurangadi

The PSMOC SAVE 'E' ELECTRONICS LLP in association with the Department of Physics PSMO College Tirurangadi conducted a 'HANDS-ON TARINING ON LED BULB REPAIRING AND NEW LED BULB MAKING' for SANGAMAM NEIGHBOURHOOD GROUP (run by Oruma

Welfare Society, Reg. No. MPM/CA/371/2016), Tirurangadi on 16/11/2021 from 9.30 AM to 4.30 PM. SANGAMAM NEIGHBOURHOOD GROUP is a group of women residing near the college. Most of them are housewives. The Sri. K P Muhammed Kutty, the Chairman, Tirurangadi Municipality inaugurated the program. Sri M.K. Abdurahiman alias Bava, the Manager, PSMO College was the chief guest. Dr. K. Azeez, Principal, PSMO College presided the program. Mrs. Muneera P O, Head of the Department, Physics, Mr. Basim M B, Assistant Professor of Physics, PSMO College and Sr. Abdu Rasheed TT, President of the SANGAMAM NEIGHBOURHOOD GROUP, Tirurangadi gave felicitation talk. Dr. Rashid T P, Assistant Professor of Physics and designated partner of PSMOC Save 'E' Electronics LLP, PSMO College together with the 11 trained students lead the training session. A total of 21 women got trained in the program and they repaired a total of 30 damaged LED bulbs. A few of them have also expressed their interest to work with the PSMOC SAVE 'E' ELECTRONICS LLP company in manufacturing the Infrared rays controlled outdoor lights. The program notice, related documents, few photos and the participation list signed are given below:

Requisition letter to the principal from the secretary of the 'Oruma Welfare Society' to conduct the training for their members



HANDS-ON TRAINING ON LED BULB REPAIRING PSMOC AND NEW LED BULB MAKING





DEPARTMENT OF PHYSICS

PSMOC SAVE 'E' ELECTRONICS LLP

PSMO COLLEGE TIRURANGADI

FOR

SANGAMAM NEIGHBOURHOOD GROUP TIRURANGADI 16.11.2021, TUESDAY

HANDS-ON TRAINING ON LED BULB REPAIRING PSMOC AND NEW LED BULB MAKING



DEPARTMENT OF PHYSICS

PSMOC SAVE 'E' ELECTRONICS LLP

PSMO COLLEGE TIRURANGADI

FOR

SANGAMAM NEIGHBOURHOOD GROUP TIRURANGADI 16.11.2021, TUESDAY

Inaugural Session: 9.30 to 10.15 AM @ Seminar Hall

Welcome: Mr. Basim. M B

Presided by: Dr. K Azeez (Principal, PSMO College)

Inauguration: Sri. KP Muhammad Kutty (Chairman, Tirurangadi Municipality)

Chief Guest: Sri.MK Bava(Manager, PSMO College)

Felicitation: Dr. Nissamudheen Kunnath (IQAC Coordinator, PSMO College)

Smt. Muneera PO (Head, Department of Physics)

Sri.Abdu Rasheed TT (President, Sangamam Neighbourhood Group, Tirurangadi)

Sri. Khaleel CH (Secretary, Sangamam Neighbourhood Group, Tirurangadi)

Vote of Thanks: Muhammed Shafi Ollakkan

Training Session 1: 10.15 to 10.45 AM @ Seminar Hall

LED Bulb Lessons: Dr. Rashid TP

Tea break

Training Session 2: 11 AM to 2 PM @ BSc Physics Lab

Aswin.MP	Nishda P	Nandana Krishanan P
Heena U	Asif Iqbal	Sree Hari T
Rana Fathima T	Geethu Krishna KM	Swaliha P T

Participants List

20	Fathima	40	8606497407	7四.
21	Najmath	53	9947675019	8
22	Aysha Fidhakk		8129294595	- Martin
,23	Aswin. M.P		7994859168	. ·
24	ASIF LOBAL M		7736444302	
25	Nandana krrishnan.c		9846817263	Madana
26	Nandana C Shekhaa		8590524873	Ja La Jestel
27	Shanannya P		9895453750	Show yo
28	Rana Fathima.c		9895560966	Ronal
29	Sveehavi -1		999573941	^
30	Heena U	W.A.	9037029804	Jun
31	Nishda · p		7994885560	the state of the s
32.	Geethu Krishna. KM		9895409023	Geet



Inaugural speech by Sri. K P Muhammed Kutty, the Chairman, Tirurangadi Municipality



Chief guest Sri. M.K. Abdurahiman alias Bava, the Manager, PSMO College



Presidential address by Dr. K. Azeez, the Principal, PSMO College

















News Report of the event



ശിൽഷശാല നടത്തി

തിരൂരങ്ങാടി: പി.സ്.എം. ഒ കോളേജിലെ ഫിസിസ്റ്റ് ഡി പാർട്മെന്റിന്റെയുംസേവ് ഇ ഇലക്ടോണി ക്റ്റ് എൽ. എ ൽ. പിയുടെയും, സംയുക്താഭി മുഖ്യത്തിൽ അയൽക്കൂട്ടം പ്ര വർത്തകർക്ക് എൽ. ഇ. ഡി ബൾബ് നന്നാക്കുന്നതിൽ പ രിശീലനം നൽകി. മുൻസിപ്പാ ലിറ്റിചെയർമാൻകെ. പി. മം.റ തിശീലനംനൽക്കി. മുൻസിക്കാലിറ്റിചെയർമാൻകെ. പി. മുഹ മാദ് കുട്ടി ഉദ്ഘാടനം ചെയ്യു. കോളേജ്പ്രിൻസികൽഡോ. കെ.അസീസ് അദ്ധ്യക്ഷത വ ഹിച്ചു. ്മാനേജർ എം. കെ. ബാവ മുഖ്യാതിഥിയായിൽ നാ. ഫിസിക്ക് ഡികാർട്മെന്റ് മേധാവി പി.ഒ. മുനീറ, ഡോ. ടി.പി. റാഷിദ്, സംഗമം അ യൽക്കൂട്ടം പ്രസിഡന്റ് ടി.ടി. അബ്ദ് റഷിദ്, മഹമാദ് ഷാ ഫി ഒളുക്കൻ എന്നിവർ പ്ര

KERALA KAUMUDI EPAPER Clipping Kerala Kaumudi - Epaper

Video Links

https://drive.google.com/file/d/11lN6f45L4rY12wrUulu9bObS0HTmMFdV/view?usp=sharing

5. EVIDENCE OF SUCCESS

 Startup India Mission Recognition: The company has received the Startup India recognition certificate from the Govt. of India (DIPP87298) and now the company is eligible for



2. Company Recognition:

The company could register as LLP under the Government of India Ministry of Corporate Affairs (LLP Identification Number: AAS-9685)



GOVERNMENT OF INDIA MINISTRY OF CORPORATE AFFAIRS Central Registration Centre

Form 16

[Refer Rule 11(3) of the Limited Liability Partnership Rules, 2009] CERTIFICATION OF INCORPORATION

LLP Identification Number: AAS-9685

It is hereby certified that PSMOC SAVE E ELECTRONICS LLP is incorporated pursuant to section 12(1) of the Limited Liability Partnership Act, 2008.

Given under my hand at Manesar this Twentieth day of July Two thousand twenty.



Ibson Sha

ASST. REGISTRAR OF COMPANIES

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the LLP on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the LLP can be verified on www.mca.gov.in

Mailing Address as per record available in Registrar Office:

PSMOC SAVE E ELECTRONICS LLP

 ${\tt PSMO~COLLEGE, SAUDABAD, TIRURANGADI~PO, TIRURANGADI, Malappuram, Kerala, 676306, Indiana College, Saudabad, Tirurangadi~Po, Tirurangadi, Malappuram, Kerala, 676306, Indiana College, Saudabad, Tirurangadi~Po, Tirurangadi, Malappuram, Kerala, 676306, Indiana College, Saudabad, Tirurangadi~Po, Tirur$



3. KERALA INNOVATORS TECHNOLOGY EXPO (KITE 2021) SELECTION

Our products have been selected for the **KITE 2021** expo conducted by the IEDC - Kerala Startup Mission, Govt. of Kerala and we are the only one Arts and Science College got selected for the KITE 2021 expo in the state

11/19/21, 9:28 PM



Dr Rashid TP PSMO <dr.rashidtp@psmocollege.ac.in>

KITE Product Showcase 2021 - Meeting

IEDC - Kerala Startup Mission <iedckerala@startupmission.in> Reply-To: iedckerala@startupmission.in
To: dr.rashidtp@psmocollege.ac.in

19 November 2021 at 19:57

Dear Innovator,

Greetings from Kerala Startup Mission!

Congratulations for being selected for Innovations Unlocked - Kerala Innovators' Technology Expo (KITE) 2021 Product Showcase!

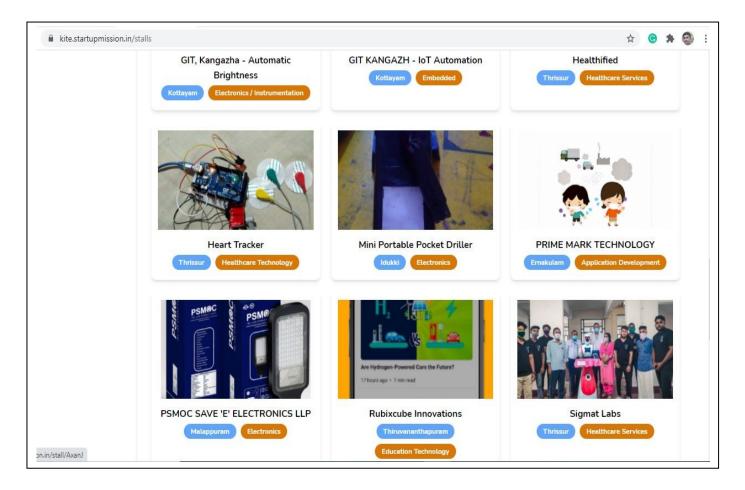
The product showcase and pitching will be held on 22nd November 2021. To discuss further regarding the event flow, we would like you to join the meeting which is scheduled for **Tomorrow 4 PM**.

Click Here to join the meeting!

Looking forward to meeting you all and making this Product Showcase a big success.

Regards, Aishwarya Lakshmi Technology Fellow - IEDC Kerala Startup Mission





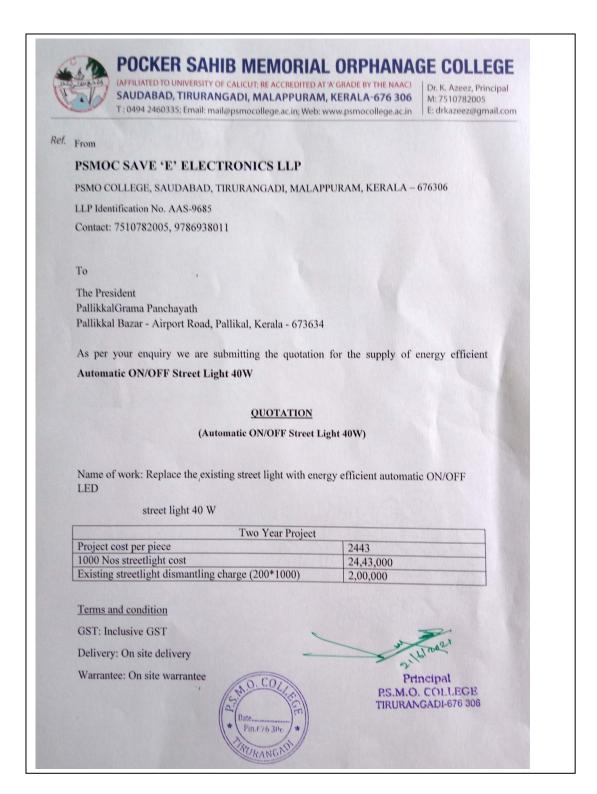
(Our products in the KITE 2021 Expo stall)

4. LSG enquiry for the installation of our products

The company has received a lot of enquiries from the nearby municipalities and Panchayat for installing our IRC street light, IRC LED bulb and to convert their existing inefficient timer circuit based high mast light to IRC automatic ON/OFF. Some of the quotations given are shown below

(i). Pallikal Grama Panchayath, Pallikal, Malappuram District, Kerala

Quotation for installing IRC Street Light 40 W (1000 Qty)



Quotation for installing IRC LED Bulbs 40 W (1000 Qty)



POCKER SAHIB MEMORIAL ORPHANAGE COLLEGE

(AFFILIATED TO UNIVERSITY OF CALICUT; RE ACCREDITED AT 'A' GRADE BY THE NAAC) SAUDABAD, TIRURANGADI, MALAPPURAM, KERALA-676 306 T : 0494 2460335; Email: mail@psmocollege.ac.in; Web: www.psmocollege.ac.in | E: drkazeez@gmail.com

Dr. K. Azeez, Principal M: 7510782005

Ref. From

PSMOC SAVE 'E' ELECTRONICS LLP

PSMO COLLEGE, SAUDABAD, TIRURANGADI, MALAPPURAM, KERALA – 676306

LLP Identification No. AAS-9685

Contact: 7510782005, 9786938011

To

The President Pallikkal Grama Panchayath Pallikkal Bazar - Airport Road, Pallikal, Kerala - 673634

As per your enquiry we are submitting the quotation for the supply of energy efficient Automatic ON/OFF LED Bulb 40W

QUOTATION

(Automatic ON/OFF LED Bulb 40 W)

Name of work: Replace the existing bulb with energy efficient automatic ON/OFF LED Bulb 40 W

Two Y	ear Project	
Project cost per piece	1380	
1000 Nos bulb cost	13,80,000	
Existing bulb dismantling charge (50*1000)	50,000	

Terms and condition

GST: Inclusive GST

Delivery: On site delivery

Warrantee: On site warrantee

PS.M.O. COLLEGE TIRURANGADI-676 306

(ii) Kavanur Grama Panchayath, Kavanur, Malappuram District, Kerala

Quotation for repairing damaged high mast light (Qty 8) and converting them to IRC automatic ON/OFF



Quotation for installing IRC Street Light 30 W (500 Qty)



5. Implementation of our products in the campus and also in the parenting institutions

Energy conservation is just as important as energy production during this period. Saving the energy is more economical than the production of electrical energy. In a busy life, people do

not even have time to turn off their devices. This is a common trend in homes, offices, campus and on the streets as well. Light that are turned on at night outside houses, campus and on the streets can cause a lot of energy loss throughout the day. So, it is planned to implement our products in the campus and the parenting nearby institutions.

6. Job opportunities of the students

By employing the students of the college at work to manufacture the products, the company has decided to achieve the following target in the coming 2 months. The damaged LED bulbs collected in the box will be repaired by the students.

. No	Name of the Product	Quantity	Expected Income (Rs)
1	Refurbished LED bulb 9W	300	
2	Refurbished LED bulb (High Watt)	4	
2	IRC LED Bulb 30W	30	
3	IRC LED Bulb 40W	10	
4	IRC Street Light 30W	10	
5	IRC Sensor Kit	10	
6	IRC Flood Light 150 W	3	
7	Ordinary LED Bulb 9W	50	
