



THE ENERGY CONSERVATION AWARENESS PROGRAM

Shakti, Chhattisgarh

In association with



Chhattisgarh Renewable
Energy Development Agency (CREDA) Raipur



Registration No. 21276
SHAKTI MAHILA VIGYAN BHARATI SAMITI
Raipur, Chhattiagarh

The Energy Conservation Awareness Program Shakti, Chhattisgarh



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Chhattisgarh Renewable Energy Development Agency (CREDA)Raipur



**Registration No. 21276
SHAKTI MAHILA VIGYAN BHARATI SAMITI, RAIPUR, CHHATTIAGARH**

**CREDA**

CHHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY

(Dept. of Energy, Govt. of Chhattisgarh)

V.I.P. Road (Airport), Near Energy Education Park, RAIPUR (C.G.)

WLL No.: 8370009925, 8370009927 E-mail: contact.creda@gov.in Website: <http://creda.cgstate.gov.in>

MESSAGE

Energy Issues are quite complex and need to be properly understood. Much of energy is generated by burning of fossil fuel in thermal power stations which is not limitless, therefore not sustainable. Further fuel efficiency level around 30% to 40 % only which means rest of the heat contain is wasted. If one unit is saved at consumer, you save almost equal to 2 units at generation end.

Then there are environmental issues related to green house gas emission and climate change with usage of fossil fuel based Energy, we have a nation mandate to reduce these emission.

Apart from the climatic cost which our future generation will have to bear the energy cost as a ratio of total cost of any entity is quite significant and will be mounting year by year. It is therefore in our self interest to use it efficiently and save it as much we can.

In this context **SHAKTI MAHILA VIGYAN BHARTI SAMITI** successfully organize various program to create awareness on Energy Conservation & Energy Efficiency among students of various Institute in Raipur.

I Congratulate the **SHAKTI** for been very active in organizing such activities in order to promote the Energy Conservation.

(Sanjeev Jain)

Chief Engineer



Message

During the past decade public concerns on the externalities of growing energy consumption have increased significantly. Energy production and use, in particular based on fossil fuels as well as electricity production or nuclear energy that causes emissions which can be harmful to the environment and to human health. In addition to concerns over local, national, regional as well as trans-boundary air pollution, growing concerns over climate change and its possible negative impacts have motivated energy saving, energy conservation and energy efficiency promotion policies in many countries. On the basis of this concept kept on mind.I started to find out the ways to work in this direction and decided to work with CREDA organization.

It is indeed a matter of great pleasure that the “Shakti MahilaVigyan Bharati Samiti, Raipur, Chhattisgarh organized a lecture series on the theme of “Energy Conservation” with the support and participation of the CREDA (Chhattisgarh State Renewable Energy Development Agency) in schools, colleges and among home Makers of the community. “Shakti Mahila Vigyan Bharati Samiti Raipur, Chhattisgarh” is one of the most vibrant organisation of the Chhattisgarh and has actively participated to the present needs and demands of the society. The purpose of the program was to aware the students from primary school to Post graduate standard and household ladies with necessary informations about Energy Conservation and how to conserve energy by of the use energy efficient means in our routine lifestyle. The exclusive awareness Program on Safety and Energy Efficiency and how to conserve energy were very well received by the entire team and co-operation of CREDA. At this juncture;I would like to thank CREDA organization and their team for financial assistance to Shakti Mahila Vigyan Bharati Samiti, Raipur, Chhattisgarh for smooth conduction of the program. My special thanks to Shri Shailendra Suklaji, Prant Secretary VIBHA and Exe. Engineer, CREDA, Mr. Rajiv Gyaniji ,Mr. Sanjeev Jain Ji. and program co-ordinators for their consistent support for the activity.

Dr. Swarnlata Saraf

Convenor, Energy Conservation Awareness program

President, Shakti MahilaVigyan Bharati Samiti, Raipur, Chhattisgarh



संदेश

राष्ट्रीय संस्था “विज्ञान भारती” से प्रेरित महिला ईकाई “शक्ति” समाज के सभी वर्गों में वैज्ञानिक अभिरूचि और वैज्ञानिक सोचको बढ़ावा देने का कार्य कर रही है। इसी तत्वाधान में “शक्ति विज्ञान भारती महिला समिति” छत्तीसगढ़ प्रांत ने राज्य के “अक्षय उर्जा स्रोत विकास अधिकरण” (CREDA) की सहायता से उर्जा संरक्षण विषय पर महिलाओं, छात्रों व घरेलूकार्य में संलग्न महिलाओं के बीच जागरूकता कार्यक्रम संचालित किया। इस कार्यक्रम में क्रेडा के अधिकारी और विषय विशेषज्ञों द्वारा स्तरीय व्याख्यानमाला का आयोजन किया गया। सभी स्तर पर “उर्जा संरक्षण जागरूकता” संबंधित पृथक प्रश्नोत्तरी (लगभग 1500) श्रोताओं से भरवाकर, प्राप्त फिडबैक अवलोकन से रिपोर्ट तैयार की गई है। परिणाम काफी सकारात्मक रहा, सभी प्रतिभागी ने उत्सुकता पूर्वक भाग लिया और वे अपने दैनिक जीवन में उर्जा संरक्षण संबंधित विशेषज्ञों द्वारा बताए गए विभिन्न तरीकों को अनुसरण में ला रहे हैं।

इस परियोजना की शुरुआत क्रेडा के पूर्व अध्यक्ष श्री शैलेन्द्र शुक्लाजी के कार्यकाल में हुआ था। इसका क्रियान्वयन वर्तमान अध्यक्ष श्री पुरेंदर मिश्रा, पूर्व मुख्य कार्यपालन अधिकारी (C.E.O.) श्री अंकित आनंदजी एवं वर्तमान श्री आलोक कटियारजी ने किया। साथही क्रेडा के सभी अधिकारी एवं विशेषज्ञों ने कार्यक्रम को सफल बनाने में अपना योगदान दिया। “शक्ति” पुरे क्रेडा परिवार के प्रति आभार प्रदर्शित करती है। कार्यक्रम आयोजित कराने वाली विभिन्न संस्थाओं के आयोजनकर्ता—प्रचार्य व प्रभारी को शक्ति धन्यवाद ज्ञापित करती है।

यह हर्ष का विषय है कि “शक्ति” उपरोक्त गतिविधियों को एक पुस्तिका के रूप में प्रकाशित कर रही है। यह पुस्तिका इस तरह के भावी गतिविधियों के लिए मार्ग प्रशस्त करने के साथ समाज के अन्य लोगो के बीच भी उर्जा संरक्षण पर जागरूकता लाने का कार्य करेगी जो शक्तिका मुख्य उद्देश्य “जनसामान्य की वैज्ञानिक और तार्किक सोच के विस्तार के माध्यम से राष्ट्रीय विकास में उनकी सक्रिय भागीदारी” को फलितकरती है।

धन्यवाद

डॉ. स्मिता शर्मा

सचिव

“शक्ति विज्ञानभारती महिला समिति”

रायपुर छत्तीसगढ़



Message

Greetings!

“The Energy Conservation Awareness Program” was organized by Shakti, Raipur to create awareness regarding safe and economic use of energy resources available to us. The aim was to reach to the college and school students and the people around us who unknowingly do the misuse of the energy resources which are very precious for our country. The focus was to save energy and to create awareness for the use of solar energy.

We are heartily thankful to CREDA for sponsoring the project, the CREDA officials for their wholehearted cooperation and enthusiasm in delivering the workshops and helping in creating the awareness. We are also thankful to the institutes, schools and organizations that helped Shakti members in the organization of the lectures and workshops. It was a small step of Shakti for being part of the society and for the wellness of the state as well as country by conserving the resources available to us. The program gave us opportunity to be close to kids, teachers and the common villagers who were very enthusiastic by the program and were eager to participate in the program.

The success of the program goes to the team work and positive feeling of working for a social cause. We congratulate each and every person who was a team in the successful completion of this program. We wish many more miles to go hand in hand under the guidance of our mentors.

Dr. Chanchal Deep Kaur

Joint Secretary,

Shakti Mahila Vigyan Bharati Samiti, Raipur, Chhattisgarh

Professor and Principal

Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari, Durg

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Application for Grant-in-Aid for organizing

“The Energy Conservation Awareness Program”

Submitted to



Chhattisgarh Renewable Energy Development Agency (CREDA)

Raipur

Submitted by



Prof. Swarnlata Saraf

President

SHAKTI : MAHILA VIGYAN BHARATI SAMITI, RAIPUR

Registration No. 21276

(Application for submission of application for Grant-in-Aid for organizing)

Awareness Program

Submitted To

Chhattisgarh Renewable Energy Development Agency (CREDA)



1	Name of Institution	:	SHAKTI MAHILA VIGYAN BHARATI SAMITI, RAIPUR (Registration No. 21276,Dated :13 June. 2011)
2	Department	:	Social Organization; National Movement for Women (Initiated by Vigyan Bharati) (Membership fee is tax free)
3	Name of the organizers with designation / full Address & Phone No. / Fax No. / E-mail	:	<u>Chairperson:</u> Prof. Swarnlata Saraf President, Shakti, Raipur CG Professor University Institute of Pharmacy Pt. Ravishankar Shukla University Raipur, C.G. Phone No: 09425522945 E.mail: swarnlata_saraf@rediffmail.com shaktichhattisgarh@gmail.com <u>Co-convenor</u> :Dr. Smita Sharma Trainer, Awasar Academy, Raipur Secretary, Shakti, Raipur, CG Phone No.7587776754 E Mail:11moonchoon@gmail.com

			<u>Co-Convenor:</u> Dr. Chanchal Deep Kaur Joint Secretary, Shakti, Raipur, CG Professor and Principal Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari, C.G. Phone No: 09826660819 E.mail: dr.chanchaldeep@gmail.com
	Nature of activity	:	<ul style="list-style-type: none">• Guest Lectures by: Engineers, Trainers, Professors.• Feedback from recipients.• Feedback analysis
5	(a) Proposed date (s)	:	Within 6 months (Feb 2018 to Aug 2018)
	(b) Duration	:	18 lectures of 1 hour each
6	Title of the activity		“The Energy Conservation Awareness Program”
7.	Objectives <ul style="list-style-type: none">• The objectives of the program is to develop Awareness related to economic use of energy resources available to us so that it could be widely used by the people not getting them so easily.• To apply energy efficiency concept in day to day life in order to save Money and Energy and thereby protect the Environment.• Cultivating good communication on energy matters.• Developing and maintaining effective monitoring, reporting and management strategies for wise energy usage.• Improving energy efficiency and reducing energy use, thereby reducing costs.• Finding new and better ways to increase returns from energy investments through research and development. <p>By obtaining necessary knowledge and information on the main operating principles of devices/appliances that are in common use and information on which to make the right decision in selecting the most energy efficient and economical choice.</p>		

8	Detailed background of the proposed Program	
	i.	<p>Definition of the problem in the context of its relevance and priority for the region.</p> <p>Energy conservation is the practice of decreasing the quantity of energy used. It may be achieved through efficient energy use in which case energy use is decreased while achieving a similar outcome, or by reduced consumption of energy services. Energy conservation may result in increase of financial capital, environmental value, national security, personal security, and human comfort. Individuals and organizations that are direct consumers of energy may want to conserve energy in order to reduce energy costs and promote economic security. Industrial and commercial users may want to increase efficiency and thus maximize profit.</p> <p>Electric energy occupies the top grade in the energy hierarchy. It finds innumerable uses in home, industry, agriculture and in transport. The facts that electricity can be transported practically instantaneously is almost pollution free at the consumer level and its use can be controlled very easily, make it very attractive as compared to other forms of energy. The per capita consumption in any country is an index of the standard of living of the people in that country. Electric energy demand has been rapidly increasing in India since 1947. The increase was very sharp in the seventies. This is attributed to greater industrialisation and large scale use of electric energy for agricultural purpose. However, the per capita consumption in India is ridiculously low as compared to that in developed countries.</p>
	ii.	<p>Background information, Survey or document data on the problem.</p> <p>The electrical losses are very high in India and are about 4-5 times as compared to other developed countries. These losses are in transmission, distribution, transformation and energy theft. The losses vary from state to state over a wide range. Many states are trying to reduce the losses but there has not been much success.</p> <p>Need of Energy Conservation:</p> <p>Energy has an important function. It is the central force behind our productivity leisure and environment. There is a strong correlation between energy use per capita and standard of public living. A higher per capita energy consumption means a higher per capita gross national product. Energy is an indispensable component of industrial product, employment, economic growth, environment and comfort. Low cost energy was</p>

		<p>abundant in the past. Energy cost was only a very small fraction of the cost of finished product. Use of low cost energy for home comfort became very predominant. The subsequent increase in oil prices increased the energy cost in every sector, domestic, commercial, industrial etc. The per capita energy consumption in India is very low as compared to that in advanced countries. However our energy resources are fast getting depleted. Thus energy saving or conservation is essential in developed as well as developing countries. The differences between the new era and the early era of energy</p>
	iii.	<p>Pilot studies or efforts already initiated by the Institution on the problem.</p> <p>The organization Shakti is already working in the society. Have organized previously health checkups, Aware school kids, girlshostel, PRSU, Raipur, Higher secondary school students on energy conservations through delivering the lectures by experts like Dr. Sanjay Tiwari, PRSU, Raipur, Er. Rajeev Gyani & Er. Shukla and others.</p> <p>Resource Person Comprises of Experts having knowledge on Energy Conservation and are already working on these lines. Experts will interact with the delegates and will try to solve their doubts and queries and will create awareness on Energy Conservation.</p>
	iv.	<p>Internal resources available at the organization and those expected from outside.</p> <p>The Shakti Chhattisgarh organization consist of members those are of varied background like Medical, Pharmacy, humanities and Science branches stream which are collectively working for the social cause to upliftment and care of women living in rural areas of Chhattisgarh state.</p> <p>The organizing team has verbal consent to provide ICT facilities equipped classrooms with Principals of primary, higher secondary school, HOD of UTD Dept. & Colleges</p>
	v.	<p>The areas / topics proposed to be covered at the Seminar with a view to generate mission orient approach for tackling the problems.</p> <ol style="list-style-type: none"> 1. People will be acquainted by various measures for the prevention on energy resources. 2. Awareness will be created for the safe and efficient use of electricity, water, petrol and other fuel. 3. Awareness will be created for the safe use of energy resources. 4. Motivation will be towards use of solar energy appliances. 5. Ecological hazards would be also dealt.

	vi.	Significance of the proposed activity including its application in socio-economic development of the State. <ul style="list-style-type: none"> • People would be given knowledge for the safer use of electrical appliances. • The wastage of resources could be prevented. • There will be economic benefits to the country by creating awareness. • Solar energy appliances would be promoted. 	
9	Beneficiary Participants	:	Students and staff of schools, colleges and people of nearby villages of Raipur, Kumhari, Bhilai.
10.	Resource Persons Identified		

Name	Designation	Organization
Shri Rajeev Gyani	Executive Engineer	Chhattisgarh Renewable Energy Development Agency (CREDA)
Shri P. K. Jain	Executive Engineer	Chhattisgarh Renewable Energy Development Agency (CREDA)
Shri Ramesh Bhakuni	Executive Engineer	Chhattisgarh Renewable Energy Development Agency (CREDA)
Shri Rajesh Trivedi	Superintending Engineer	Chhattisgarh Renewable Energy Development Agency (CREDA)
Shri Rajiv Khare	Superintending Engineer	Chhattisgarh Renewable Energy Development Agency (CREDA)
Mr. Kushal Shukla		Chhattisgarh Renewable Energy Development Agency (CREDA)

11	Financial Implication	:	60,000 Rs.
	S.No.	Particulars	Cost (Rs)
	1.	Designing, Printing, Study material and Stationary Expenses	12,000
	2.	Remuneration for Speakers (18x 1000 Rs.) (18 Lectures)	18,000
	3	Momento felicitation for Speakers	8,000
	4.	Transportation and travel Expenses	8,000
	5.	Refreshments	10,000
	6.	Miscellaneous	4, 000
	Total		60,000
	Utilization report of the accounts incurred may be sent immediately through Secretary Duly signed by signing authority of organization.		
FORWARDING NOTE			
We will follow the rule as will mentioned with Grant -in-Aid for organizing the aforesaid programme and agree to abide by them.			
SIGNATURE (Head of the Hosting Institute) (Seal) Prof. Swarnlata Saraf President, Shakti, Raipur			
Dated:10/02/2018			
(Organizers):			
Signatures:			
Prof. Swarnlata Saraf, President Shakti, Raipur			
Dr. Smita Sharma, Secretary, Shakti, Raipur			
Dr. Chanchal Deep Kaur, Joint Secretary, Shakti, Raipur			

PROGRAM VENUES

CREDA Sponsored “The Energy Conservation Awareness Program”

- Navin Kanya Hostel, Pt Ravi Shankar Shukla University, Raipur
- Shivom Academy ,Changora Bhata Raipur
- Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari
- K8 Nishant Vidyalya, Anupam Nagar, Raipur
- Sohaga Mandir Brahman Para, Azad Chowk, Raipur
- Path IAS Academy, Raipur
- University Institute of Pharmacy , Pt Ravi Shankar Shukla University, Raipur
- Girls Hostel , Pt Ravi Shankar Shukla University, Raipur
- Gurukul Girls College, Kalibadi, Raipur
- Department of Basic Science , Pt Ravi Shankar Shukla University, Raipur
- Shri Rawatpura Sarkar Group of Institutions, Kumhari Dist. Durg
- Avasar Academy, Sharda Chouk Raipur
- Gurukul Girls College, Kalibadi, Raipur
- Central Library, Nagar Palika Nigam, Amanaka, Raipur

QUESTIONNAIRES



शक्ति विज्ञान भारती
विद्युत् मां अमी
बाइल पारा रायपुर
'शक्ति विज्ञान भारती' रायपुर इकाई

आपके दैनिक जीवन से जुड़े प्रश्न

1 आपके घर में कितने बल्ब लगाये गये हैं

अ-4 व-5 स-6 द-6 से अधिक ✓

2 आपके घर में किस प्रकार के बल्ब हैं?

अ-एलईडी व-सीएफएल ✓ स-100वाट द-इनमें से कोई नहीं

3 आपके घर में खाना किसमें पकाया जाता है

अ-सिंगड़ी व-मिटटी का चूल्हा स-गैस चूल्हा ✓ द-इलेक्ट्रिक चूल्हा

4 आपके घर में किस वाहन का प्रयोग अधिक किया जाता है

अ-साइकिल व-मोटर साइकिल ✓ स-आटो रिक्शा द-कार

5 मोबाइल चार्ज होने के बाद

अ चार्जर को प्लग से निकालना चाहिए

व चार्जर को प्लग से निकालना चाहिए ✓

स केवल बटन आफ करना चाहिए

द इनमें से कोई नहीं

नाम - आशीष मसिह
 कक्षा - तीसरी
 पता - मगत सी बस स्टेशन सिंह चौक
 दू गा नगर रायपुरा (छ. म.)

आपके दैनिक जीवन से जुड़े कुछ प्रश्न

1.. आपके घर में कितने बल्ब लगाए गए हैं ?

अ) 2 ब) 3 स) 4 / द) अधिक

2. आपकी माँ किसमें खाना बनाती है ?

अ) चूल्हा ब) सिंगड़ी स) स्टोव द) गैस / चूल्हा

3. घर में अगर बल्ब जल रही है तो उसे कौन बंद करता है ?

अ) आप / ब) माँ स) पिताजी द) कोई नहीं

4. पिताजी काम करने किसमें जाते हैं ?

अ) पैदल ब) स्कूटर स) साइकिल / द) बस

5. मोबाइल चार्ज होने के बाद चार्जर को प्लग में

अ) लगे रहने देना चाहिए । ब) नहीं लगे रहने देना चाहिए ।

**Shakti, Raipur Unit Organizes CREDA Sponsored Awareness Program on
Energy Conservation**

ENERGY AWARENESS QUESTIONNAIRE
 "Saving energy...saving our future" Date:
 For Individual Respondent

1.1	Name and Designation of The Respondent	Bharat Dhruw/student
1.2	Name of the District and Code	Raipur 492007
1.3	Address and Contact Details Of the Respondent	Postal Address: Nowa Raipur (C.G.) Phone (with STD Code): 490006 Mobile: 7415186704 Email (if any): bharat.lal@bharatdhruw.com
1.4	Locality	<input checked="" type="checkbox"/> Urban 2. Rural
1.5	Category of Respondent	1. Domestic 2. Commercial 3. Agriculture 4. Industrial Any other, please specify Student
1.6	Gender of the Respondent	<input checked="" type="checkbox"/> Male 2. Female
1.7	Literacy Status of the Respondent	1. Uneducated 2. Educated but below high school 3. High school or above but below graduation <input checked="" type="checkbox"/> Well qualified (Diploma, Masters, etc.)

1. At the moment we are being presented with a picture that we are living in an energy crisis. Do you think this so?

- ☒ a) Yes
☐ b) No

2. Do you think that energy saving is important to you?

- ☒ a) Yes
☐ b) No

3. Have you ever had an opportunity to reduce energy use at home?

- ☒ a) Yes
☐ b) No

4. If you had to monitor the use of energy at home, do you think it would help you to become more aware about the importance of energy saving?

- ☒ a) Yes
☐ b) No

5. Are you aware of ways of saving energy? Tick as many as are relevant to you?

- ☒ a) I'm aware of many ways
☐ b) I'm aware of 3-4 ways of saving energy
☐ c) I'm aware of some basic ways of saving energy
☐ d) I'm not aware of any ways of saving energy

6. Do you practice energy saving techniques at home?

- ☒ a) Yes
☐ b) No

7. If yes, so tick as many as are relevant to you

- ☐ a) I use energy saving bulbs
☐ b) I turn off lights and control that equipment is turned off before I go home
☒ c) I use energy saving appliances
☐ d) I try to change my daily habits to save energy

8. What would motivate you to change your behavior to reduce the energy use? Tick as many as are relevant to you -

- ☐ a) Still increasing cost of it
☒ b) Environmental reasons
☐ c) Public relations

9. What is your general attitude to energy saving? Tick one possibility

- ☐ a) Positive
☒ b) Positive and aware
☐ c) Neutral
☐ d) Negative

10. Would you be interested in participating in energy saving activities in the future?

- ☒ a) Yes
☐ b) No

11. Would you be interested in participating in energy awareness campaign in the future?

- ☒ a) Yes
☐ b) No

12. Do you use the ways of saving energy outside your home, for example at school, at work, at relatives home, at your friends homes?

- ☒ a) Always
☐ b) Usually
☐ c) Sometimes
☐ d) Rarely
☐ e) Never

13. Do you face any of the following supply related issues?

- a) Frequent power cut
- b) ☒ Voltage fluctuation
- c) Both
- d) None of the above

14. During which part of the day do such problems occur?

- a) Morning
- b) ☒ Afternoon
- c) Evening
- d) Night
- e) There is no definite time / persistent but irregular

15. What electrical equipments have you installed at your place to deal with the problem of voltage fluctuation?

- a) Voltage Stabilizer
- b) ☒ Inverter
- c) Any other, please specify

16. Do you know that you can reduce your electricity bill by using energy efficient appliances such as compact fluorescent lamp (CFL) lights; energy-efficient pump sets etc.?

- a) No
- b) ☒ Yes

17. Do you think that use of energy efficient equipment which consumes less electricity can help in addressing the problem of power cuts?

- a) No
- b) ☒ Yes.

18. If 'Yes', have you started using energy efficient equipment?

- a) No
- b) ☒ Yes

19. If 'No', then what are the reasons for not using energy efficient

equipment's?

- a) Not available
- b) Equipment cost is very high
- c) Product quality is not very good/reliable
- d) After sales service is not available/reliable
- e) Not aware from where I can purchase it
- f) Not sure about its benefits
- g) Any other, please specify

20. How do you identify energy efficient products?

- a) ☒ Star Rating
- b) BEE labeling
- c) Don't know
- d) Any other, please specify

21. Does your household have energy efficient products?

- a) No
- b) ☒ Yes

22. Do you find presentation beneficial?

- a) No
- b) ☒ Yes

Suggestions:

we have save our energy and health in our future life. energy save.

Communications



CREDA
CHHATTISGARH STATE RENEWABLE ENERGY DEVELOPMENT AGENCY
(Deptt. of Energy, Govt. of Chhattisgarh)
V.I.P. Road (Airport Road), Near Energy Education Park, RAIPUR (C.G.)
Phone : 08370009915, 0771-2971483 Fax : 0771-2971482
E-mail : info@creda.in • Website : www.creda.in

CREDA/EC/F-112(1)/ 28228

Date: 26 FEB 2018

✓ Dr. Smita Sharma
Secretary
Shakti-" Vigyan Bharti" Raipur Unit
Gurukul Azad Chowk, Raipur, 492001

Subject: **Sponsorship for "Energy Awareness Program" in various Institutes.**

This has reference to your letter dated 22.02.2018 seeking financial support for the above stated event.

CREDA accords sanction of ` Rs-30,000/- as sponsoring the event, subject to the following:

- (1) The financial assistance will be provided on reimbursable basis.
- (2) The financial sanction is for supporting the organizational cost of the event only & not for activities like entertainment, TA/DA, honorarium & salaries.
- (3) CREDA shall have the right to publish details of the event.
- (4) Publicity and logo of CREDA on Backdrop, Brochures and other Publicity Materials of the event.
- (5) The event will be covered photographically and copies of such photographs shall be sent to CREDA for its records.
- (6) CREDA reserves the right to add/alter/change these conditions at its sole discretion.
- (7) Award of financial sanction by CREDA will not make it a party to any liability which may arise on account of organization of the event.
- (8) The organization shall submit the following documents to CREDA duly signed by the head of the organization within 30 days of holding of the event for reimbursement of the sanctioned funds:
 - (a) Statement of Expenditure (SoE) of the Seminar duly endorsed by a certified Chartered Accountant.
 - (b) Audited statement of expenditure of the event, duly sealed and signed.
 - (c) Copy of Proceedings, publicity materials & expected impact of the program.
 - (d) List of Participants
 - (e) List of Speakers
- (9) The accounts of the organization will be open to test check by CREDA at its discretion.
- (10) The decision of CEO, CREDA in regard to the interpretation of the terms and conditions of sanction order shall be final and binding on the organizers/recipients of the financial assistance for event.

(PTO)

✓ 26/2/18

--/12/--

- (11) CREDA decision for sanctioning the proposal is final and no further correspondence will be entertained in this regard.
- (12) The sanctioning of the proposal is subject to the fulfillment of terms and conditions of CREDA and subject to the availability of funds.
- (13) If the organization fails to organize the event after issue of sanction by CREDA, no fresh proposals received for financial assistance from the organization will be considered for the next one year.

 28/02/18

Rajeev Gyani
Executive Engineer, CREDA

CREDA/EC/F-112(1)/ 28229


Date: 26 FEB 2018

Copy to CFA, CREDA HO, Raipur.

 26/02/18

Executive Engineer, CREDA

SHAKTI
Shastri Bhawan
B-4, 17th Floor, Mather Square,
Town Railway Station Road, Cochin - 682018
Ph: 0484-2393242, 0761-4086737
Email: shaktibharat2003@gmail.com



**SHAKTI MAHILA VIGYAN
BHARATI SAMITI
Raipur Unit**
A National Movement for Women
Reg. No. - ER-29404
URL: shaktibharati.org.in

Office-Gurukul, Azad Chowk, Raipur (C.G.) 492001
Registration No. 21276
Reg. No. - ER-29404
E-mail: shaktibharati.org.in

Ref NO: _____ Date: _____

Coordinator
Dr. Usha Dubey
098261-82799

Vice President
Dr. Aruna Choudhary
093297-20248

Secretary
Dr. Smita Sharma
093030-13723
7587776754

Joint Secretary
Dr. Divya Sharma
09977703004

Treasurer
Dr. Chanchal Deep Kaur
09826660819

To,
Shri Sanjay Jain
Chief Engineer,
Chhattisgarh Renewable Energy
Development Agency (CREDA), Raipur (C.G.)


Subject - To extend the duration to complete the project on 'Energy Conservation Awareness Program' organising by SHAKTI and sponsored by CREDA

Dear sir,
SHAKTI VIGYAN BHARATI Raipur unit in association with CREDA is organising lecture series in various institution on 'Energy Conservation Awareness Program'. The effort is getting good results. Examination season has affected the availability of students in some institutes, therefore some lecture session are still to be conducted.
Kindly provide one month extension in duration from 31st march 2018 to 30th April 2018, to complete all the 18 lectures proposed in the previously submitted project.

Looking forward for your response.

Dr. Smita Sharma
Secretary
SHAKTI Mahila Vigyan Bharati Samiti
Raipur (C.G.)

SHAKTI
Shastri Bhawan
B-4, 17th Floor, Mather Square,
Town Railway Station Road, Cochin - 682018
Ph: 0484-2393242, 0761-4086737
Email: shaktibharat2003@gmail.com



**SHAKTI MAHILA VIGYAN
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093030-13723
7587776754

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09977703004

Treasurer
Dr. Chanchal Deep Kaur
09826660819

To,
Shri Shashank Singh
Executive Engineer
Chhattisgarh Renewable Energy
Development Agency (CREDA)

Subject - To invite as a speaker in "Energy conservation Awareness program", organized by SHAKTI and Sponsored by CREDA

Dear sir,
SHAKTI VIGYAN BHARATI Raipur unit organizing an awareness lecture series in Energy Conservation with support of CREDA.
Kindly accept the letter to deliver a lecture and pleased us to be a part of the program.

Thanking you,

Dr. Smita Sharma
Secretary
SHAKTI VIGYAN BHARATI
Raipur (C.G.)

Topic - "Energy Conservation & Renewable Energy Sources."
Venue - Girls Hostel, RSU Campus, Raipur (C.G.)
Date - 05/04/2018
Time - 3 PM

To
Shri Ankit Anandji, (IAS)
CEO, CREDA
Raipur, (C.G.)

Subject: Awareness program progress report by SHAKTI

Sir,

With reference to the matter as mentioned on CREDA website regarding "Energy Awareness Program", we submitted a proposal for financial assistance to be a part of this activity in our state.

SHAKTI completed all the lectures with the enthusiastic support of speakers, organizers and participants.

Kindly go through the progress report and sanction the amount.

Looking Forward for your response.

Dr. Smita Sharma

Secretary
SHAKTI Mahila Vigyan Bharati Samiti, Raipur
(Registration no. 21276, 13 June 2011)

PROGRAM CERTIFICATES



Shakti- Raipur Unit Chhattisgarh
Presents

Certificate of Shakti Sthapna Diwas 2018 Appreciation

We extend this certificate to

Shri Rajeev Gyani

Executive Engineer, CREDA, Chhattisgarh

To acknowledge his contribution in the conduction and execution of

“CREDA Sponsored Energy Conservation Awareness Program”

We highly appreciate your dedication, enthusiasm
and sincere efforts.

Wishing you best for future endeavors

Prof. Swarnlata Saraf
President
Shakti Unit Raipur, C.G.

Dr. Smita Sharma
Secretary
Shakti Unit Raipur, C.G.



Shakti- Raipur Unit Chhattisgarh

Presents

**Certificate of
Shakti Sthapna Diwas 2018
Appreciation**

We extend this certificate to

Shri Sanjeev Jain

To acknowledge his contribution in the conduction and execution of

“CREDA Sponsored Energy Conservation Awareness Program”

We highly appreciate your dedication, enthusiasm
and sincere efforts.

Wishing you best for future endeavors

Prof. Swarnlata Saraf
President
Shakti Unit Raipur, C.G.

Dr. Smita Sharma
Secretary
Shakti Unit Raipur, C.G.



Shakti- Raipur Unit Chhattisgarh
Presents

**Certificate of
Shakti Sthapna Diwas 2018
Appreciation**

We extend this certificate to

Shri Amitabh Sharma

Project coordinator, CREDA, Chhattisgarh

To acknowledge his contribution in the conduction and execution of

“CREDA Sponsored Energy Conservation Awareness Program”

We highly appreciate your dedication, enthusiasm
and sincere efforts.

Wishing you best for future endeavors

Prof. Swarnlata Saraf
President
Shakti Unit Raipur, C.G.

Dr. Smita Sharma
Secretary
Shakti Unit Raipur, C.G.



Shakti- Raipur Unit Chhattisgarh
Presents

Certificate of
Shakti Sthapna Diwas 2018
Appreciation

We extend this certificate to

Shri Kushal Tiwari

Project coordinator, CREDA, Chhattisgarh

To acknowledge his contribution in the conduction and execution of
“**CREDA Sponsored Energy Conservation Awareness Program**”

We highly appreciate your dedication, enthusiasm
and sincere efforts.

Wishing you best for future endeavors

Prof. Swarnlata Saraf
President
Shakti Unit Raipur, C.G.

Dr. Smita Sharma
Secretary
Shakti Unit Raipur, C.G.



Shakti- Raipur Unit Chhattisgarh
Presents

Certificate of Shakti Sthapna Diwas 2018 Appreciation

We extend this certificate to

Shri Shashank Singh

Project coordinator, CREDA, Chhattisgarh

To acknowledge his contribution in the conduction and execution of

“CREDA Sponsored Energy Conservation Awareness Program”

We highly appreciate your dedication, enthusiasm
and sincere efforts.

Wishing you best for future endeavors

Prof. Swarnlata Saraf
President
Shakti Unit Raipur, C.G.

Dr. Smita Sharma
Secretary
Shakti Unit Raipur, C.G.



Shakti- Raipur Unit Chhattisgarh
Presents

**Certificate of
Shakti Sthapna Diwas 2018
Appreciation**

We extend this certificate to

Shri Samrat Kundu

Project coordinator, CREDA, Chhattisgarh

To acknowledge his contribution in the conduction and execution of

“CREDA Sponsored Energy Conservation Awareness Program”

We highly appreciate your dedication, enthusiasm
and sincere efforts.

Wishing you best for future endeavors

Prof. Swarnlata Saraf
President
Shakti Unit Raipur, C.G.

Dr. Smita Sharma
Secretary
Shakti Unit Raipur, C.G.



Shakti- Raipur Unit Chhattisgarh
Presents

**Certificate of
Shakti Sthapna Diwas 2018
Appreciation**

We extend this certificate to

Shri Nihar Ranjan Sahu

To acknowledge his contribution in the conduction and execution of
“CREDA Sponsored Energy Conservation Awareness Program”

We highly appreciate your dedication, enthusiasm
and sincere efforts.

Wishing you best for future endeavors

Prof. Swarnlata Saraf
President
Shakti Unit Raipur, C.G.

Dr. Smita Sharma
Secretary
Shakti Unit Raipur, C.G.

VENUE CO-ORDINATORS

- Srimati Nirmala Gupta, Principal, Nishant School, Anupam Nagar
- Mr. Sacchidanand Mishra, Principal, Higher Secondary School, Raipura
- Dr. Reeta Venugopal (Chief Warden) , Dr. Meeta Jha and Dr. Manju Singh Warden Girls Hostel, (Pt. Ravishankar Shukla University, Raipur, C.G.)
- Dr. H.K. Pathak and Dr. Veenu Joshi, Centre for basic Sciences , (Pt. Ravishankar Shukla University, Raipur, C.G.)
- Dr. Swarnlata Saraf & Dr. Preeti K. Suresh, Dr. Manmohan Singh Jangde, University Institute of Pharmacy, (Pt. Ravishankar Shukla University, Raipur, C.G.)
- Dr. Smita Sharma & Ku. Vandana, Gurukul Academy Sharada Chowk, Raipur
- Dr. Swarnlata Saraf , Dr. Smita Sharma & Mr. Shashank Sharma Central Library (Public Library), Amanaka G.E. Road Raipur
- Dr. Chanchal Deep Kaur, Dr. Anshita Gupta, Mrs. Raudisha& Mrs. Anita Mani, Shri Rawatpura Sarkar Group of Institution, KumhariDurg.



Program Report
The Energy Conservation Awareness Program



Chhattisgarh Renewable Energy Development Agency (CREDA), Raipur



Prof. Swarnlata Saraf
President
SHAKTI : MAHILA VIGYAN BHARATI SAMITI, RAIPUR
Registration No. 21276

**SCHEME-NATIONAL SEMINAR /CONFERENCE GRANT
UTILIZATION FORM**

1. File No. & Date of Offer Letter : **CREDA/EC/F-112(1)/28228 dated
26/02/2018**
2. Name of the Conveners : **Prof. Swarnlata Saraf, President Shakti, Raipur
Dr. Smita Sharma, Secretary, Shakti, Raipur
Dr. Chanchal Deep Kaur, Joint Secretary,
Shakti, Raipur**
3. Name and Address of the: **SHAKTI MAHILA VIGYAN BHARATI**
Institution **SAMITI RAIPUR**
Registration No. 21276, dated : 28 Nov. 2010
4. Title of the Program : **“The Energy Conservation Awareness
Program”**
5. Total amount sanctioned : **Rs. 30,000 (Thirty thousand only)**

Note:

Bank Account Number: 31718221889

CIF number: 86021800301

Account Holder : SHAKTI MAHILA UNIT OF CG VIGYAN BHARTI

Bank Details: State Bank of India, Ravishankar University

UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR 2017-18**“The Energy Conservation AwarenessProgram”**

Sanction Order/Letter No. & Date under which grant was sanctioned	Amount (Rs.)	Details
CREDA/EC/F-112(1)/28228 dated 26/02/2018	Rs. 30,000 (Thirty thousand only)	Certified that out of the grant-in-aid of <u>Rs. 30,000 (Thirty thousand only)</u> sanctioned by the CREDA during the financial year 2017-18 in favor of Shakti, Raipur Unit. As per letter mentioned in the margin, <u>Rs.Nil</u> on account of unspent balance of previous year, <u>Rs. Nil</u> on account of other income/ receipts, a sum of <u>Rs. 30,000/-</u> has been utilized for the purpose for which it was sanctioned and the balance of Rs. <u>Nil</u> remained unutilized at the end of the year.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Name, Signature & Address of the Claimant/Awarded/Co-ordinator with seal:

Dr.Smita Sharma,
Secretary Shakti, Raipur

Prof. SwarnlataSaraf,
President, Shakti,

Raipur

Dr. Chanchal Deep Kaur,
Joint Secretary, Shakti, Raipur

File No. :CREDA/EC/F-112(1)/28228 dated 26/02/2018

Title of the Program :“The Energy Conservation Awareness Program”

Sanction No. and Date	Grant Sanctioned	Details of expenditure Incurred Item wise	Amount Spent (Rs.)	Duration of the Program (with dates)
CREDA/EC /F- 112(1)/28228 dated 26/02/2018	Rs. 30,000 (Thirty thousand only)	1. Stationery 2. Printing, photocopy and Binding 3. Banners designing and printing 4. Snacks and Refreshments 5. Booklet designing, Printing and Binding. 6. Certificate designing and Printing 7. Mementos and other Expenditures of Closing Ceremony 8. Petrol Expenses Total: Grant received Net Expenditure	5000 5,000 3000 3000 5000 2000 2000 2000 3000 30,000 30,000	18 Lectures (Details enclosed)

Name, Signature & Address of the Claimant/Awarded/Co-ordinator with seal:

**Dr. Smita Sharma,
Secretary Shakti, Raipur**

**Prof. Swarnlata Saraf,
President, Shakti, Raipur**

**Dr. Chanchal Deep Kaur,
Joint Secretary, Shakti, Raipur**

CREDA Sponsored “The Energy Conservation Awareness Program”

Organized By Shakti Raipur Unit

Details of Lectures

S.No.	Lectures	Title	Venue
1.	Lec.-1	Energy Conservation and Science behind Energy efficient technologies	Navin Kanya Hostel, Pt Ravi Shankar Shukla University, Raipur
2.	Lec.-2	Energy savings Equipment in our day to day life	Shivom academy ,Changora Bhata Raipur
3.	Lec.-3	Energy Conservation and Solar Energy	Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari
4.	Lec.-4	Energy Conservation in our day to day life	K8 Nishant Vidyalya, Near Anupam Nagar
5.	Lec.-5	Energy Conservation in our day to day life	Sohaga Mandir Brahman Para, Azad Chowk, Raipur
6.	Lec.-6	Renewable Energy Sources and Solar Energy	Central Libray, Nagar Palika,Raipur
7.	Lec.-7	Energy Conservation and Renewable Energy Sources	Path IAS Academy
8.	Lec.-8	Energy Conservation and Solar Energy	UIOP, Pt Ravi Shankar Shukla University, Raipur
9.	Lec.-9	Renewable Energy Sources and Solar Energy	Girls Hostel , Pt Ravi Shankar Shukla University, Raipur
10.	Lec.-10	Role of Renewable Energy Sources in Energy Conservation”	Gurukul Girls College, Kalibadi, Raipur
11.	Lec.-11	Energy Conservation and Renewable Energy Sources	Department of Basic Science , Pt Ravi Shankar Shukla University, Raipur
12.	Lec.-12	“Role of Renewable Energy Sources in Energy Conservation”	Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari
13.	Lec.-13	Energy Conservation and Solar Energy	Pharmacy dept. Pt. Ravishankar Shukla University, Raipur
14.	Lec.-14	Renewable Energy Sources and Solar Energy	AvasarAcadamy, Sharda Chouk Raipur
15.	Lec.-15	Energy Conservation in our day to day life	Central Libray, Nagar Palika,Raipur
16.	Lec.-16	Energy Conservation in our day to day life	Gurukul Girls College, Kalibadi, Raipur
17.	Lec.-17	Energy Conservation and Science behind Energy efficient technologies	Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari
18.	Lec.-18	Energy Conservation and Science behind Energy efficient technologies	Central Library, Nagar Palika, Raipur

List of Speakers Delivered the Lectures

Dr. Sanjay Tiwari	Prof. SOS Electronics Pt. Ravishankar Shukla University, Raipur and Secretary VIBHA
Mr. Rajeev Gyani	Executive Engineer -CREDA
Mr. Amitabh Sharma	Executive Engineer -CREDA
Mr. Shashank Singh	Executive Engineer -CREDA
Mr. SamratKundu	Project Coordinator CREDA
Mr. Nihar Ranjan Sahu	Project Coordinator CREDA
Mr. Kushal Tiwari	Project Coordinator CREDA

Survey conducted for Energy Conservation Awareness among the audience in each lecture by the help of specific questionnaire.

Set -1 (Middle and Higher Education)

ENERGY AWARENESS QUESTIONNAIRE		
"Saving energy...saving our future"		
For Individual Respondent		
1.1	Name of the Respondent	
1.2	Name of the District and Code	
1.3	Address and Contact Details of the Respondent	Postal Address Phone (with STD Code): Mobile: Email (if any):
1.4	Locality	1. Urban 2. Rural
1.5	Category of Respondent	1. Domestic 2. Commercial 3. Agriculture 4. Industrial 5. Any other, please specify _____
1.6	Gender of the Respondent	1. Male 2. Female
1.7	Literacy Status of the Respondent	1. Uneducated 2. Educated but below high school 3. High school or above but below graduation 4. Well qualified (Diploma, Masters, etc.)

- At the moment we are being presented with a picture that we are living in an energy crisis. Do you think this so?
a) Yes
b) No
- Do you think that energy saving is important to you?
a) Yes
b) No
- Have you ever had an opportunity to reduce energy use at home?
a) Yes
b) No
- If you had to monitor the use of energy at home, do you think it would help you to become more aware about the importance of energy saving?
a) Yes
b) No
- Are you aware of ways of saving energy? Tick as many as are relevant to you?
a) I'm aware of many ways
b) I'm aware of 3-4 ways of saving energy
c) I'm aware of some basic ways of saving energy
d) I'm not aware of any ways of saving energy
- Do you practice energy saving techniques at home?
a) Yes
b) No
- If yes, so tick as many as are relevant to you
a) I use energy saving bulbs
b) I turn off lights and control that equipment is turned off before I go home
c) I use energy saving appliances
d) I try to change my daily habits to save energy
- What would motivate you to change your behavior to reduce the energy use? Tick as many as are relevant to you -
a) Still increasing cost of it
b) Environmental reasons
c) Public relations
- What is your general attitude to energy saving? Tick one possibility
a) Positive
b) Positive and aware
c) Neutral
d) Negative
- Would you be interested in participating in energy saving activities in the future?
a) Yes
b) No

11. Would you be interested in participating in energy awareness campaign in the future?
a) Yes
b) No

12. Do you use the ways of saving energy outside your home, for example at school, at work, at relatives home, at your friends homes?
a) Always
b) Usually
c) Sometimes
d) Rarely
e) Never

13. Do you face any of the following supply related issues?
a) Frequent power cut
b) Voltage fluctuation
c) Both
d) None of the above

14. During which part of the day do such problems occur?
a) Morning
b) Afternoon
c) Evening
d) Night
e) There is no definite time / persistent but irregular

15. What electrical equipments have you installed at your place to deal with the problem of voltage fluctuation?
a) Voltage Stabilizer
b) Inverter
c) Any other, please specify

16. Do you know that you can reduce your electricity bill by using energy efficient appliances such as compact fluorescent lamp (CFL) lights; energy-efficient pump sets etc.?
a) No
b) Yes

17. Do you think that use of energy efficient equipment which consumes less electricity can help in addressing the problem of power cuts?
a) No
b) Yes

18. If 'Yes', have you started using energy efficient equipment?
a) No
b) Yes

19. If 'No', then what are the reasons for not using energy efficient equipments?

a) Not available
b) Equipment cost is very high
c) Product quality is not very good/reliable
d) After sales service is not available/reliable
e) Not aware from where I can purchase it
f) Not sure about its benefits
g) Any other, please specify

20. How do you identify energy efficient products?
a) Star Rating
b) BEE labeling
c) Don't know
d) Any other, please specify

21. Does your household have energy efficient products?
a) No
b) Yes

Set -2 (Primary Education)

Set-3 (Illiterates)

नाम - _____
कक्षा - _____
पता - _____

आपके दैनिक जीवन से जुड़े कुछ प्रश्न

1. आपके घर में कितने बल्ब लगाए गए हैं ?
अ) 2 ब) 3 स) 4 द) अधिक

2. आपकी माँ किससे खाना बनाती है ?
अ) चूल्हा ब) सिंगड़ी स) स्टोव द) गैस चूल्हा

3. घर में अगर बल्ब जल रही है तो उसे मौन बंद करता है ?
अ) आप ब) माँ स) पिताजी द) कोई नहीं

4. पिताजी काम करने किससे जाते हैं ?
अ) पैदल ब) स्कूटर स) साइकिल द) बस

5. मोबाइल चार्ज होने के बाद चार्जर को प्लग में
अ) लगे रहने देना चाहिए । ब) नहीं लगे रहने देना चाहिए ।

शक्ति विज्ञान भारती' रायपुर इकाई

आपके दैनिक जीवन से जुड़े प्रश्न

1. आपके घर में कितने बल्ब लगाये गये हैं
अ-4 ब-5 स-6 द-6 से अधिक

2. आपके घर में किस प्रकार के बल्ब हैं?
अ- एलईडी ब-सीएफएल स-100वाट द-इनमे स कोई नहीं

3. आपके घर में खाना किससे पकाया जाता है
अ- तिमड़ी ब- मिट्टी का थूला स- गैस चूल्हा द- इलेक्ट्रिक थूला

4. आपके घर में किस वाहन का प्रयोग अधिक किया जाता है
अ- साइकिल ब- मोटर साइकिल स- ऑटो रिक्शा द- कार

5. मोबाइल चार्ज होने के बाद
अ- चार्जर को प्लग से निकालना चाहिए
ब- चार्जर को प्लग से निकालना चाहिए
स- केबल बंदन आदि करना चाहिए
द- इनमे से कोई नहीं

Questionnaires were filled by about 1500 students from different institutes and are being analyzed under some parameters. SHAKTI will provide the results of this valuable survey to CREDA in some time, which can turn out to be a great resource for further plans by CREDA.

"Energy Conservation And Its Scientific Basis"

Speaker: - Rajeev Gyani Executive Engineer –CREDA

Venue - University Girls hostel, Pt. Ravishankar Shukla University.Raipur

No. of attendees -100 People.

Impact - Girls learnt how to save the energy in day today life. Filled questionnaire and took feedback.

Outcome - Hostel Warden showed there interest in such knowledge based program.



Energy saving equipments in our daily life

Speaker: Dr. Sanjeev Tiwari Prof. SOS Physics Pt. RSU Raipur & President Vigyan Bharti Raipur.

Venue –Shivom Academy Changora Bhata Road

No. of attendees-150 people attended the lecture

Impact - Participants were students of 11 and 12.

They filled a questionnaire, fruitful interaction to satisfy their curiosity.

Outcome -School management appreciated and interested for further informative lectures.



Energy Conservation and Solar Energy.

Speaker: Rajeev Gyani Ji Executive Engineer -CREDA

Venue Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari , Durg C.G.

No. of attendees -250 college students (girls, boys) and teachers attended the lecture.

Impact - College Students were participants. They enquired about Solar energy based home appliances. Fruitful interactions. They filled questionnaire,

Outcome -School management appreciated and interested for further informative lectures.



Energy Conservation in our day to day life

Venue - K8 Nishant Vidyalaya, Near Anupam Nagar .

Speaker: Project Coordinator CREDA- Mr.KushalTiwari

This school catering the need of education of children of slum area.

Shakti team Raipur organized awareness programe in this school to aware slum area kids.

Impact - Participants were students of class 3rd to 5th .

They filled a questionnaire, well answered the oral questions. Unit distributed copy pencils and biscuits among children.

Outcome -School students were very attentive, and participating.



रावतपुरा सरकार संस्थान कुम्हारी में व्याख्यान



रायपुर, 13 फरवरी (देशबन्धु)। रावतपुरा सरकार संस्थान कुम्हारी (दुर्ग) में क्रेडा द्वारा प्रायोजित शक्ति रायपुर के तत्वावधान में एक दिवसीय व्याख्यान आयोजित किया गया इस व्याख्यान में शक्ति संगठन की अध्यक्ष डॉ. श्रीमती स्वर्णलता सराफ ने शक्ति संगठन के कार्यों एवं इसके उद्देश्यों पर विस्तार से प्रकाश डाला एवं बताया कि देश की 50 फीसदी आबादी जो कि महिलाओं की है इसका विकास होना अत्यन्त आवश्यक है उन्होंने विभिन्न देशों का उदाहरण देते हुये भारत में महिलाओं को प्राप्त अधिकारों की जानकारी दी। व्याख्यान में क्रेडा के मुख्य कार्यकारी इंजीनियर डॉ. राजीव ज्ञानी ने वर्तमान में सौर ऊर्जा पर विशेष प्रकाश डाला एवं अपने व्यवस्त्व में उन्होंने बताया कि कैसे इस पर कार्य किया जा रहा है उन्होंने विस्तार पूर्वक विद्यार्थियों के अनेकों प्रश्नों के उत्तर दिए। व्याख्यान का आयोजन संस्थान के उपाध्यक्ष डॉ. जेकेउपध्याय एवं कार्यकारी निदेशक एसएस वर्मा के दिशा निर्देशानुसार किया गया।



Department of Basic Science, Pt Ravi Shankar Shukla University, Raipur

By: Mr. Samarat Kundu, Project Coordinator, CREDA



“ Role of Renewable Energy Sources in Energy Conservation”.

Shakti, Raipur Unit in cooperation with CREDA organised Guest Lecture at SRIP Kumhari on 17th April, 2018 . Shri Kushal Tiwari, Project Coordinator, CREDA gave deliberation on “ Role of Renewable Energy Sources in Energy Conservation”. Shri Kushal Tiwari emphasized on use of renewable sources of energy before the earth get depleted of fossil fuels. He informed about the various forms of renewable energy sources such as hydropower, wind energy, solar energy, biomass energy and geothermal energy. He explained how to avoid wastage of energy by using products of standard marking by Bureau of Energy Efficiency like LED etc. and also avoid undue consumption by keeping switch off plugs when not in use.

Professor Swarnalata Saraf President, Shakti Raipur Unit, Dr. Smita Sharma Secretary Shakti Raipur Unit and Dr. Chanchal Deep Kaur, Joint Secretary, Shakti Raipur Unit graced the occasion and motivated girls and women to excel in their respective fields.

Dr. J.K. Upadhyay Vice Chairman SRGOI, Shri B.N. Pandey, Director SRGOI, Kumhari encouraged the students to utilize such activities maximally.



PHOTO GALLERY



Pharmacy Dept. Pt. Ravishankar Shukla University, Raipur



Path IAS Academy, Civil Lines, Raipur



Central Library, Nagar Palika, Raipur





Sohaga Mandir Brahman Para, Azad Chowk, Raipur



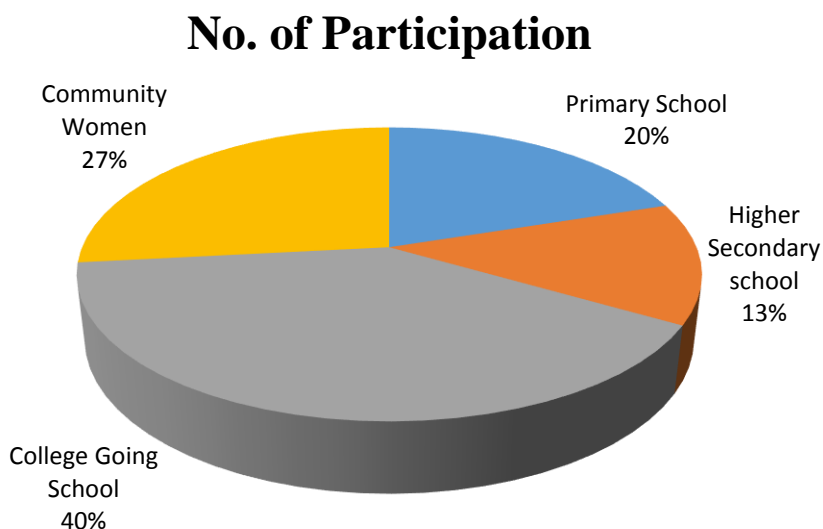
Gurukul Girls College, Kalibadi, Raipur

Energy Conservation awareness program Analysis

The “Energy conservation” awareness program were conducted by **Shakti** to upgrade quality and knowledge for the students, youth, and the house hold ladies.

Shakti conducted the program in 4 levels i.e. Primary school, Higher Secondary, College going girls and the Community women basically house hold ladies. The program was completed and the result of the awareness program are shown in the % form in the report. So total no. of participation of students and community women are collectively around of 1500.

Sr. No.	Level	No. of Participation
1	Primary School	300
2	Higher Secondary	200
3	College going girl	600
4	Community Women	400
	Total	1500



The Program was divided in to three Phase

1.Questionnaires

In this phase the questions was distributed in the form of question paper and evaluated by the response of the participants all the questions was subjected to energy conservation and how to conserve energy in our daily life by using energy efficient appliances.

In **Ist & 2nd** Class school student the questionnaires was conducted in the form of **Verbal**

Discussion

3rd -5th Class School Students Energy conservation awareness Program was conducted in the form of lectures and they were benefited by lectures and learned more than 90%

Higher Secondary 11th & 12th School level

Sr. No.	Questionnaires	Response
1.	Knowledge about energy conservation	Yes
2.	Knowing but not Practicing	90%
3.	Ways of Saving (basic way)	90%
4.	Using bulb	Know -40% / Practice- 90%
5.	Turn off	80% students
6.	Participating in program	Yes
7.	Don't know about LED	30%

College level

Sr. No.	Questionnaires	Response
1	Agreed to conserve energy	>90%
2	Agreed with energy efficient equipments	Yes
3	Program benefits	Yes

2. Follow-up

3rd-5th Class school students

Sr. No.	Factors	Follow up
1	Gain Knowledge	40%
2	Practicing the knowledge gained by the program	10%
3	Enthusiasm about the program	100%

11th – 12th Class School Students

Sr. No.	Factors	Follow up
1.	Understanding of saving energy importance	10%
2.	Knowledge about LED	10%
3.	What is Energy	30%

College going girls

Sr. No.	Factors	Follow up
1.	Understanding of saving energy importance	20%
2.	Practice	10%
3.	Interested to save energy	30%
4.	Knowledge about LED	30%
5.	Not interested to conserve energy	10%

Community women

Sr. No.	Factors	Follow up
1.	Save Energy importance	5%
2.	Practice	5%
3.	Knowledge about LED	2%
4.	Knowledge about LED	2%
5.	Not interested to conserve energy	80%

3.Questionnaires Analysis and Feed Back

At Primary School Level

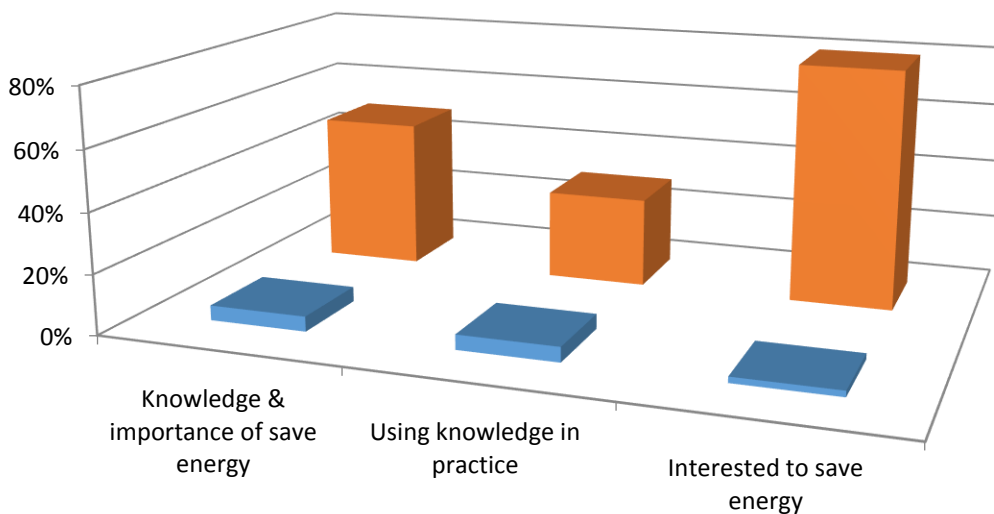
The primary school students participated in energy conservation program when they were interacted with shakti team including Prof.Swarnlata Saraf, Dr. Smita Sharma and Dr. Chanchal Deep Kaur with expert of Mr. Kushal Tiwari from CREDA. The members of shakti were organized this activity at under privileged students of Nishant School run by the owner Mrs. Nirmala Gupta (Principal) at Anupam Nagar. The team of Shakti conducted program with power point presentation and found that students are very enthusiastic and learned a lot about “ Save Energy” . In Follow up lecture as per discussion with principal, She told that the students more than 90% started to switch off the lights and fans of their classrooms as well as in home as per verbal discussion with principal and gave positive feedback.

Higher Secondary

We have conducting the analysis at two condition Before and after

At Higher Secondary Level

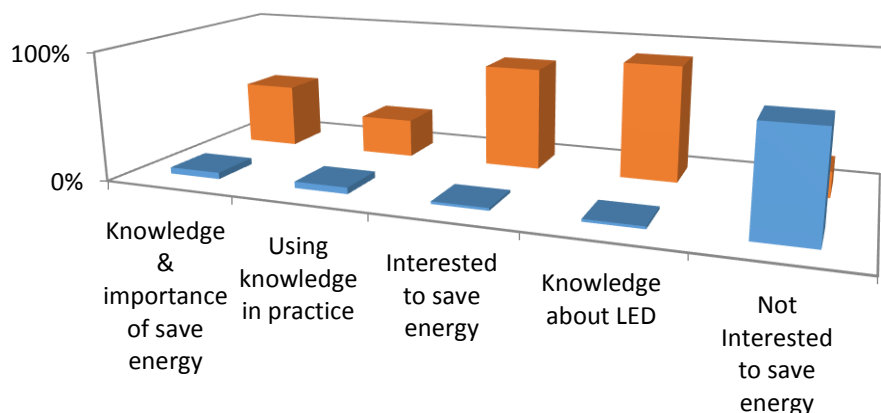
Sr. No.	Questionnaires	Result before the program	Result after the program
1	Knowledge & importance of save energy	30%	50%
2	Using knowledge in practice	10%	30%
3	Knowledge about LED	40%	70%



- The result shown in the graph and the data represents that the percentage of knowledge was increased after the awareness program
- The major outcome of the energy conservation awareness program is that the 100% students are benefited by the program

College going girls

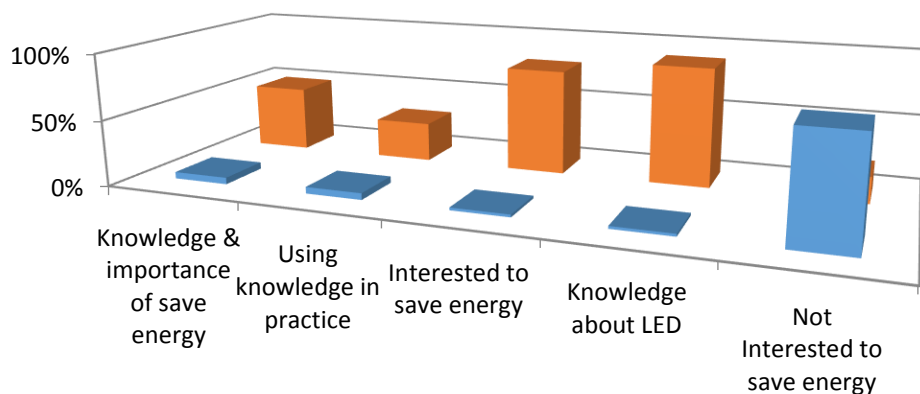
Sr. No.	Questionnaires	Result Before the program	Result After the program
1	Knowledge & importance of save energy	20%	40%
2	Using knowledge in practice	10%	30%
3	Interested to save energy	30%	50%
4	Knowledge about LED	30%	50%
5	Not Interested to save energy	10%	0%



Results represent that the college going girls are also benefited the awareness program .

Women from community house hold ladies

Sr. No.	Questionnaires	Result Before the program	Result After the program
1	Knowledge & importance of save energy	05%	50%
2	Using knowledge in practice	05%	30%
3	Interested to save energy	02%	80%
4	Knowledge about LED	02%	90%
5	Not Interested to save energy	80%	20%



CONCLUSION

In last but not least, The Shakti team had good experiences with public and find new ideas to communicate the theme of national programs among kids, youth, college going girls and household ladies. Shakti team members feel proud to contribute their services in nation building that is the ultimate goal of the NGO/social organization of the country.

