





KKR&KSR Institute of Technology and Sciences Vinjanampadu, Guntur, Andhra Pradesh-522017

Approved by AICTE, New Delhi and Permanent Affiliation from JNTUK, Kakinada Accredited with "A" Grade by NAAC & NBA Accreditation Status for 4 UG (CSE, ECE, EEE, ME) Programs



1. Title of the Event:-

"Student solar Ambassadors::1Million Efforts for Mother Earth on 2nd October an initiative by MHRD and IIT Bombay"

2. Objective of the Event:

To celebrate the commemoration of the 150th Gandhi Jayanti, Students Solar Ambassador Workshop was organized on 2nd Oct. 2018 by Indian Institute of Technology (IIT) Bombay. On this day 1.32 lakh students across India got hands-on training of assembling the solar study lamps, and over 5,000 students came together at IIT Bombay campus itself. This was a Guinness Book of World Record Event. It made an incredible sight when 5000 students in the campus lit their own made Solar Lamps simultaneously, spreading the message — Solar is the way forward! Sensitization and participation of students as Solar Ambassadors have a critical role to play in the mitigation of climate change.

Taking Solar Student Workshop 2018 a notch above, Student Solar Ambassador Workshop 2019 has been planned on a much grander scale, with SSA going International this time. Over 80 countries would be joining hands on October 2, 2019, to celebrate the 150th Birth Anniversary of father of the Nation – Mahatma Gandhi. The SSA 2019 is a part of the Gandhi Global Solar Yatra wherein more than 1 Million students will get hands-on training in the assembly of solar study lamps. Come let us Light Solar Lamps, Adopt the Solar Energy, Surrender of grid electricity, practice non-violence towards nature and become self-reliant in Energy. Be a Solar Ambassador to join the BIG Movement! Be the CHANGE yourself!!

3. About the Program/Event:

After Inaugural session, First Dr.Amrendra (HOD, EEE Department) spoken few words about Dr. Chetan Singh Solanki and then Chetan sir engaged the session by introducing about the Solar Ambassador program carried by Millions of students all over India and how it going to save the energy for future generation with the use of Renewable energy as a source of generation. Finally ended with a quote of "Come let us Light Solar Lamps, Adopt the Solar Energy, Surrender of grid electricity, practice non-violence towards nature and become self-reliant in Energy. Be a Solar Ambassador to join the BIG Movement! Be the CHANGE yourself!!"

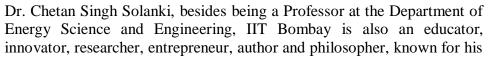






4. Details of Resource Person:

Dr. Chetan Singh Solanki (Professor, Department Energy Science and Engineering, IIT Bombay)





remarkable work in the solar sector. Prof. Solanki was born in a small village called Nemit in the Khargone district of Madhya Pradesh. His primary school had just one classroom and a teacher at that time. Having studied in the light of the kerosene lamp himself, Prof. Solanki is now committed to providing clean light to all. He received his Ph.D. from IMEC (KU Leuven), Belgium, a leading R&D and innovation hub in micro and nano-electronics.

He is currently leading two projects of national importance on the dissemination of affordable solar technology. The National Center for Photovoltaic Research and Education (NCPRE) houses one of the best research facilities on Photovoltaic (PV) technology in India. Prof. Solanki is also the Principal Investigator in the Solar Uria through Localization for Sustainability (SoULS) Initiative at IIT Bombay, which aims to provide solar study lamp to every child in rural India as part of its 'Right to Light' mission. Dr. Solanki has taken several initiatives at the social front as well. He is the founder of Education Park, an initiative in school education, which provides "high quality and affordable educational training in rural India". Education Park has been built through public support with unique solar passive infrastructure, and its 14-acre campus runs on 100% solar energy. Dr. Solanki's SoULS Initiative earned many awards. Notable awards include Prime Minister's award from Honorable Prime Minister Shri Narendra Modi in April 2017 under 'Innovative Project' category. The Student Solar Ambassador workshop organized on 2nd Oct. 2018 has entered in Guinness World Record. SoULS initiative also won Grand Prize (South Asia Regional Round) in 'Empowering a Billion Lives' competition organized by IEEE. He has won the European Material Research Society's young scientist award in 2003 and IIT Bombay's Young Investigator Award in 2009. He has published over 100 research papers in reputed international journals. He has 4 US patents to his credit. Prof. Solanki has authored 4 books on solar and renewable energy. One of his book titled "Solar Photovoltaics: Fundamentals, Technologies and Applications is widely used.

5. Venue of the Event:

The event is organized in Seminar Hall at KKR & KSR Institute of Technology & Sciences, Vinjanampadu, Andhra Pradesh from morning 9:30 AM to Evening 5:00 PM on 2nd Oct, 2019.







Permission letter:



उन्नत भारत अभियान राष्ट्रीय समन्वय संस्थान भारतीय प्रौद्योगिकी संस्थान दिल्ली क्षेत्र बास, नई दिल्ली-११००१६



UNNAT BHARAT ABHIYAN NATIONAL COORDINATING INSTITUTE
INDIAN INSTITUTE OF TECHNOLOGY DELHI
Haux Khas, New Delhi-110016
Website : http://unost.itid.ac.in

Prof. Virendra K. Vijay National Coordinator, UBA Professor CRDT, IITD

Tel. :+91-11-2689 1121/1157 (O) Fax :+91-11-2659 1121 Email :unnatbharatabhiyanitd@gmail.com vkvljay@rdat.litd.ac.in

8" July 2019

<Director/Principal>
<Participating institutes, UBA>

Subject: Invitation to conduct for Student Solar Ambassador Workshop 2019, IIT Bombay

In the wake of energy sustainability and mitigating climate change, the idea of "Energy Swaraj" or localized energy self-sufficiency has been conceptualized. Gandhi Global Solar Yatra (GGSY, www.gcsv.in) is planned by IIT Bombay not only in India but across the globe to sensitize the young minds towards solar energy and dire consequences of climate change. The young peneration, who will best the maximum burden of climate change, has to be an integral part of this clean energy revolution and Energy Swaraj.

A culmination event of this Yatra, the Students Solar Ambassador Workshop, is being organized by IIT Bombay on 2nd Oct. 2019, marking the 150th Birth Anniversary of Mahatma Gandhi, wherein hands-on training will be given to students to make their own solar study lamp. A similar workshop was also organized on 2nd October 2016, wherein more than 1.30 lakh students assembled their own solar study lamps all over India, which was also a Guinness World Record event.

In the above context, we would like you to invite students from your University/Colleges to participate in this one-day maga-global event on 2™ October 2019. Following points should be kept in mind while registering:

- It is important to enroll at least 50 students to become a Workshop Associate. Students of 11 years and above can become participants of this workshop. Schools and universities enrolling as a Workshop Associate can approach their teachers to become Master Trainers.

 The Workshop Associates will bear the lamp cost themselves and the estimated cost of the lamp kit is around IMR. 510 -530. Certification fees of IMR 10 per student (by the student) have to be paid after registration while freezing the exact count of participants (This amount will directly go to IIT Bombay Donation Account)

We look forward to your positive response.

6. Scheduled structure of the event:-

	Solar Lamp As	sembly Workshop A				variance of current and voltage parameters to b			
SESSION - 1 10:00 AM -	11:00 AM	n and Sensitization					students by varying the light intensity falling on		
Learning Ob	bjective: To sensitize students	s about the importance	and future in Solar sector	.			the sclar panel.		
	Description	Resources	Trainer's guidelines				 Take help from other 		
Content:	 Sensitization towards current climate 	Session to happen with the help of PPT	Arrive by 9:30Make sure to have PPT				teachers for crowd movement		
	scenario and climate change Introduction to	and video. Other requirements: Laptop	and PDF version of the presentation • Always carry a handout of the slides	ng Outcomes: At the end of this session, participants should be able to test all the technical components and should be well versed with the technical parameters of all components.					
	Energy and ElectricityWhy solar energy is	SpeakerPPT		SESSION – 3 2:00 PM – 4:30 PM Assembly of Solar Lamp					
	better than		64.77	Learning Objective: To assemble quality lamp					
	conventional source				Description				
	of energy?			Content:	 Step by step assembly 	Resources	Trainer's guidelines		
	Benefits and usage of Solar Energy	ī i			of Solar lamp	 Electricity connection for the soldering stations 	 1 Soldering station to be setup in each class Soldering should be don 		
	importance and should be exc	ited about the next sess	d show interest in Solar Energy ion			Wooden table for soldering	under the supervision of trainer for all the lamp		
ESSION – 2 1:00 AM –	Familiarization about toolkit, S 1:00 PM					 kits in the classroom Students should come to soldering table in small 			
earning Ob	jective: To test the componer	nts of the solar lamp usi	ing Multimeter.				groups		
ontent:	Description • Introduction to	Resources Classes should have	Trainer's guidelines • A class can have about			151	• There will be 1 toolkit fo		
ontent.	toolkit components.	following facilities: Table and chairs/	25-30 students There will be 1 toolkit for	Learning Outcomes: At the end of this session, participants should be able to assemb					
	components and physical testing	White Board and	every 25 students per class	SESSION -	- 4	a Break 4:30 - 5:30 PM			
0.53	Technical testing of	Marker • Electricity	 Spend more time in the 	Learning	Learning Objective: To motivate the participants to adapt to solar energy Description				
	the technical		technical testing of the		Description	participants to adapt to	solar energy		
	components	connection	components	Content		Resources	Trainer's guidelines		
	components		Solar panel testing should be done in an open area		students from class		Wrap up session shoul be with all the student		







7. No of Students Participated: 100

8. No of Faculties Participated: 12

9. Event Photographs from different angles covering all the students :























Feedback forms:

KKR AND KSR INSTITUTE	OF TEC	CHNOLOG	SY ANI	O SCIENCE	ES			(Approved by AICTE, N Vinjanamp Accredited by NAAC	EW DE	LHI Affilia	ted to Ji	NTUK-Kaki -17.	nada)	
Vinjanampadu	ELHI A	Affiliated to	JNTU	K-Kakinada)									
Accredited by NAAC WIT	H "A" C	Grade & Ac	credited	by NBA										
of the workshop: Studentee of the student: K. N. V. S. T. No: 18 [R. N. O. S. T. No: 18 [R. N. O. S. No: 18] R. No: 02 [No. 18] No: 03 [No. 18] No: 04 [No. 18	of our of education are	uality production. Here requested to	han S	r support and e of the poin marks in the l	d feedback wil ts to facilitate box provided a	l help you in gainst	2. N 3. F 4. I	Name of the student: K- 505(Soll No: 147R1A020 Date: 2 - 10 - 19 As the ultimate beneficing to maintain the required standary in the reduced beach item as per the following nor the sollowing nor the sollow	ary of o	ur quality producation. Her	oduct your are son to give	our support a me of the po marks in the	and feedback ints to facilita box provided	will h te you d agai
lease indicate your level of sat and 5. (5-Excellent 4-Very goo Particulars	d 3-G Yes/	ood 2-Sa	following tiesfact Very Good	ory 1-Po	or)	Poor (1)	SL.NO	1 and 5. (5-Excellent 4-Very go	Yes/ NO	Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	Po (1
Is this content was as		~	(4)				1	Is this content was as	yes		V			-
Is this workshop was	No		1				_	Is this workshop was				~		-
Is it helpful to your			1					Is it helpful to your					~	_
Can you say the program was well paced within the allotted	40	~						a say the program was		~				
Do you say the instructor was a	Yes	~					4	time		~				
The instructor was	16						5	good communicator was			1			
Do you say the workshop was conducted in well equipped	a de	-	_			1		knowledgeable on the topic		1				
Can you believe this worksho was advanced one		8	-	-			6	environment				/		
Are you interested attending a follow-up, me advanced workshops on t	TC VA	3 ~				Ţ.	7	Are you interested in			1			
o Is it recommend to ot			1		KM\$7 Signature of		8	attending a londer advanced workshops on this same subject Is it recommend to other conservators					- jz	
	Vinjanampadu, Accredited by NAAC WIT Vinjanampadu, Accredited by NAAC WIT WORKSING of the workshop: Stude entered to the student: K-N-V-S-T No: [4] EIA ON-I i: O2-IO-II i: O2-IO-II At the ultimate beneficiary o maintain the required standards ing feedback about our students. As the ultimate beneficiary o maintain the required standards ing feedback about our students. As the unit part of the standards ing feedback about our students. As the unit part of the standards ing feedback about our students. Is the content was as described in publicity material be this workshop was applicable to your Job Is it helpful to your curriculum Can you say the program was well paced within the allotted time Do you say the program was well paced within the allotted time Do you say the instructor was a good communicator instructor was a good to the topic Lony our say the workshop wa conducted in well equippe environment Can you believe this workshop was advanced of the content of the content of the content was advanced of the content advanced of workshops on same subject Is it recommend to out	Vinjanampadu, vaticher Accredited by NAAC WITH "A" (WORKSHOP FEED of the workshop : Shudent So to of the student: K-N-V-S-TYPOTLA No: [8] EIA ONG: to of the student: K-N-V-S-TYPOTLA No: [8] EIA ONG: to A: the ultimate beneficiary of our of the student of	Vinjanampada, vaticherukaru, Gun Aceredited by NAAC WITH "A" Grade & Ac With "A "A" Grade & Ac With "A "A" Grade & Ac With "A" Grade &	Vinjanampadu, vaticherulaura, Gartur-17. Accredited by NAAC WITH "A" Grade & Accredited WORKSHOP FEEDBACK FORM WORKSHOP FEEDBACK FORM of the workshop: Student Solan Forban S to of the student: K-N-V-& TJ-OCLL No: [8] E-[A-OC-G-1] io of the workshop is of our quality product you on maintain the required standards of education. Here are some ing feedback about our students. You are requested to give in term as port the following north and the students and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 2-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 3-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 3-Satisfaction with the following and S, G-Excellent 4-Very good 3-God 3-Satisfaction with the following and S, G-Excellent 4-Very	Virgianumpout, watticherulum, Gintut-17. Accredited by NAAC WITH "A" Grade & Accredited by NBA WORKSHOP FEEDBACK FORM of the workshop: Student Stud	WORKSHOP FEEDBACK FORM of the workshop: Student Stude	Ninjanampadu, vaticherslura, Gantur-17. Accredited by NAAC WITH "A" Grade & Accredited by NBA WORKSHOP FEEDBACK FORM Of the workshop: Start Abelian Solar Accession of the workshop of the workshop of the student: K-N-V-S-TYPOKLA No: 18 PHACK-1 10 2-10 19 The student K-N-V-S-TYPOKLA No: 18 PHACK-1 10 2-10 19 The student K-N-V-S-TYPOKLA No: 18 PHACK-1 10 2-10 19 The student K-N-V-S-TYPOKLA No: 18 PHACK-1 10 2-10 19 The student K-N-V-S-TYPOKLA No: 18 PHACK-1 10 2-10 19 The student K-N-V-S-TYPOKLA No: 18 PHACK-1 10 2-10 19 The student K-N-V-S-TYPOKLA No: 18 PHACK-1 10 2-10 19 The student K-N-V-S-TYPOKLA No: 18 PHACK-1 The student K-N-V-S-TYPOKLA T	Vicinal ampagnic, variable results, Grant Accredited by NAAC WITH "A" Grade & Accredited by NBA WORKSHOP FEEDBACK FORM WORKSHOP FEEDBACK FORM Of the workshop: Student & Student & Forman Sc. And - Exercise the property of the student: K-N-V-& TUCKTA. No: [8] PIROSCO To 21-[0] A the utilimate beneficiary of our quality product your support and feedback will help of maintain the required standards of education. Here are some of the points to facilitate you in ing feedback about our students. You are requested to give marks in the box provided against the items as per the following norms: lease indicate your level of satisfaction with the following statement by choosing score and 5. G-Excellent 4-Very good 3-Good 2-Satisfactory 1-Poor (1) Is this content was as described in publicity material be this workshop was applicable to your job Is it helpful to your curriculum Can you say the program was well paced within the allotted time. Do you say the workshop was a pool and the paced within the allotted in well equipped environment. A mistructor was a Yea Yea Yea Yea Yea Yea Yea Yea Yea Y	KKR AND KSR INSTITUTE OF TECHNOLOGY AND SCIENCES (Approved by AlCIE, NEW DELIII) Affiliated to INTUK-Kakinada) Vinjanampahar with rank of the workshop: Student of the workshop was not the points to facilitate you in the fedback will help on maintain the required standards of education. Here are some of the points to facilitate you in the fedback will help on maintain the required standards of education. Here are some of the points to facilitate you in the fedback will help on maintain the required standards of education. Here are some of the points to facilitate you into freedback about our student of the workshop was not student to maintain the required standards of education with the following statement by choosing score and student of the workshop was not student th	KKR AND KSR INSTITUTE OF TECHNOLOGY AND SCIENCES (Approved by AICTE, NEW DELHII Affiliated to INTUK-Kakinada) Vinjananaphadu, var Vinjananaphadu, var Vinjananaphadu, var Accredited by NAAC WITH "A" Grade & Accredited by NBA WORKSHOP FEEDBACK FORM of the workshop: Student Solan Achan Solan Ach	KKR AND KSR INSTITUTE OF TECHNOLOGY AND SCIENCES (Approved by AlCIE, NEW DIELHI] Affiliated to INTUK-Kakinada) Vinjanampadu, vaticherukuru, Guntur-17. Accredited by NAAC WITH "A" Grade. WORKSHOP FEEDBACK FORM of the workshop: Student "Scient Accredited by NBA WORKSHOP FEEDBACK FORM of the workshop: Student "Scient Accredited by NBA WORKSHOP FEEDBACK FORM of the workshop: Student "Scient Accredited by NBA WORKSHOP FEEDBACK FORM of the workshop: Student "Scient Accredited by NBA WORKSHOP FEEDBACK FORM of the workshop: Student "Scient Accredited by NBA WORKSHOP FEEDBACK FORM of the workshop: Student "Scient Accredited by NBA WORKSHOP FEEDBACK FEEDBACK WORKSHOP WORKSHOP FEEDBACK WORKSHOP FEEDBACK WORKSHOP FEEDBACK WORKSHOP WORKSHOP FEEDBACK WORKSHOP WORKSHOP FEEDBACK FEEDBACK WORKSHOP FEEDBACK FEEDBACK WORKSHOP FEEDBACK FEEDBACK WORKSHOP FEEDBACK F	KKR AND KSR INSTITUTE OF TECHNOLOGY AND SCIENCES (Approved by ALCTE, NEW DELITIJ Affiliated to NTUK-Kakinada) Vinjanamapadu, vaticherukuru, Guntur-77. Accredited by NAAC WITH "A" "Grade & Accredited by NBA WORKSHOP FEEDBACK FORM **OF ID 16 A Common According to the workshop: Student Solar Archan	Vinjanampadu, vaticherulum, Guntur-17.	KKR AND KSR INSTITUTE OF TECHNOLOGY AND SCIENCES (Approved by AlcTE, NEW DELIII Affiliated to INTUK-Kakinada) Vinjanampadu, vatticherduum, Gantur-17. Accredited by NAAC WITH "A" Grade & Accredited by NBA WORKSHOP FEEDBACK FORM WORKSHOP FEEDBACK FORM Nor. 18 Eth CK 6 Nor. 18 Eth

Outcome:

For the global Student Solar Ambassador workshop, to be held on 2ndOct. 2019 (SSA-2019) all across the world, the use of solar study lamp, commonly known as Solar Urja (Energy) Lamp (SoUL) is proposed, but not mandatory. Our online master training, includes technical testing of components and their assembly, is designed for SoUL kits.

The design files for SoUL are available on SoULS. The design of SoUL kit is licenced under creative commons and free for anyone to use. The SoUL kit is designed at IIT Bombay and is certified by CPRI (Central Power Research Institute, Ministry of Power, GoI, Banglore) and NISE (National Institute of Solar Energy, Ministry of New and Renewable Energy, GoI, Gurgaon).

All the workshop associates/institutions/organizations who are going to conduct the SSA-2019 are required to source the solar lamp kits on their own at their own cost. We/IIT Bombay DO NOT take any responsibility or any liability, what so ever, for any issues arising from the procurement of the material for SSA-2019. Terms and conditions of the procurement, including financials, should be finalized mutually by buyer and seller.

We have procured the Solar Urja Lamp kits from following vendors in the past for our Govt. of India sponsored projects based on tendering process. The participating organizations may buy the Solar Urja Lamp kits from any of these vendors. However, participating organizations are completely free to buy the SoUL kits for SSA-2019 from any other vendor/s, anywhere in the world.

Press note:

సోలార్తో పర్యావరణ పరిరక్షణ



రూపాందించిన సోలార్ దీపాలతో విద్వార్తులు

వటిచెరుకూరు, న్యూస్టుడే: సోలార్ శక్తితో కళాశాలలు ఉన్నప్పటికీ గాంధీ గ్లోబల్ సోలార్ యాత్ర కార్యక్రమం బాధ్యతను నైపుణ్యాభివృద్ధి రులు పాల్గొన్నారు.

సంస్థ, పునరుత్పాదక శక్తి మంత్రిత్వ శాఖ, ఎంట్ర పర్వాచ్రణ పరిరక్షణ సాధ్యం అవుతుందని కిట్స్ (పెన్యూర్ష్షిప్ విభాగాలు తమ కళాశాలకు అప్పగిం ఇంజినీరింగ్ కళాశాల ఫైర్మన్ కోయి సుబ్బారావు చడం ఆనందంగా ఉందన్నారు. కాలుష్య రహీత అన్నారు. మండలంలోని వింజనంపాడులోని కిట్స్ దేశం కావాలంటే సోలార్ ఉత్పత్తులు భారీగా జర కళాశాలలో ఈఈఈ విద్యార్థులు బుధవారం గాలన్నారు. కిట్బ్లోల్ రూ. కోటితో సోలార్ విద్యుత్తు స్తూడెంట్ సోలార్ అంబాసిడర్-19 (150 సోలార్ ఉత్పత్తి ప్లాంట్ ఏర్పాటు చేశామని చెప్పారు. కార్య దీపాలతయారీ) ప్రారంభోత్సవంలో ఆయన క్రమంలో కళాశాల కార్యదర్శి కోయి శేఖర్, డైరెక్టర్ పాల్వాని మాట్లాడారు. జిల్లాలో ఎన్నో ఇంజినీరింగ్ కె. హరిబాబు, ఈఈఈ విభాగాధిపతి అమరేంద్ర, ఎన్ఎస్ఎస్ సమన్వయకర్త రాఘవరావు తదిత