

## INTRODUCTION

Energy crisis in present era is the major concern in human civilization. To cope up with this impending scarcity of energy sources, exploration of renewable sources of energy will be the major solution. National Institute of Solar Energy (NISE), Faridabad has selected National Institute of Technology Silchar (NIT Silchar) as a Training Partner to create awareness on solar energy in the North-East. NISE has sanctioned 3 training programme to NIT Silchar. NIT Silchar will organize the second training programmes of the series on REMOTE VILLAGE ELECTRIFICATION during 4-6 February 2017

Solar energy is one of the important contenders of renewable source of energy. It is ultra clean, natural, readily available and a sustainable source of energy that can be utilized in the use of making solar electricity, solar heating appliances, solar cooling and lighting appliances. This is the high time to explore this divine and shining source of power for the service of mankind. In this attempt an endeavor has been taken by NIT Silchar to bring the state of art among the **Farmers; Women from Rural Locations; Village Level renewable energy Service Company; Panchayat and Village heads; Officers from State Nodal Agencies; Officials from State and Central Agriculture departments; Unemployed youth; Entrepreneurs present and future.**

## OBJECTIVE OF THE WORKSHOP

To acquaint the target audience with the information on Solar Energy.

To bring the awareness on various applications of Solar Energy.

## WORKSHOP CONTENTS

Application of RE technology to meet Energy needs in the Rural Areas.

Availability of New and Renewable Resources

Various government schemes on off grid solar technologies. State and Central govt. policy and schemes

Introduction to Solar PV Gadgets

Solar Photovoltaic systems

Solar based Off grid lighting system

Discussion on major components of a solar PV system, inverter and battery

Solar thermal specifications and its applications (low grade heat to high grade heat)

Concentrated solar thermal technologies for cooking and process heating

Hybrid solar power systems

Scope of solar biomass hybrid solar power generation system in the North east India

Entrepreneur skills and soft skills

## HIGHLIGHTS OF THE PROGRAMME

Experts from Ministry of New and Renewable Energy (MNRE) and NISE, Experts from industries and In-house experts

## ELIGIBILITY, SELECTION and DATES

This programme is open to the target audience: **Farmers; Women from Rural Locations; Village Level renewable energy Service Company; Panchayat and Village heads; Officers from State Nodal Agencies; Officials from State and Central Agriculture departments; Unemployed youth; Entrepreneurs in north east.**

The number of participants is limited to 30 (thirty).

## Submission deadline— 31 January 2017

Selected candidates will be informed about selection by email or phone by 2 February 2017

## ORGANIZING COMMITTEE

Coordinator:

Prof. Fazal A Talukdar, Prof of ECE

Prof. Rajat Gupta, Prof of ME & Director (i/c)

Team: Prof. R D Misra, Prof of ME

Dr. L C Saikia, Asst Prof of EE

Dr. Agnimitra Biswas, Asst Prof of ME

Dr. Arup Goswami, Asst Prof of EE

Dr. Ranjith G Nair, Asst Prof of Physics

Sri Bijan Bhattacharee, Mechanical Engg

Sri Dilip Nag, Electrical Engg

## SOLAR ENERGY AWARENESS PROGRAMMES IN THE NORTH EAST

### A THREE-DAY WORKSHOP

on

## Remote Village Electrification

4 February– 6 February 2017

at

National Institute of Technology, Silchar (Assam)

### REGISTRATION FORM

1. Name (in Block Capital Letter):
  2. Gender-
  3. Date of birth-
  4. Designation (if any):
  5. Institution/organization:
  6. Address for communication (including post office and district):
- E mail:
- Phone/Mobile No:
7. Educational qualification:
  8. Experience, if any (Years):

Place:

Date:

***Signature of the applicant***

## DECLARATION

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the workshop and shall attend the programme completely. I also undertake the responsibility to inform the organizers in case, I am unable to attend the programme.

Place:

Date:

*Signature of the applicant*

## SPONSORSHIP CERTIFICATE

Mr./Ms. \_\_\_\_\_

is an employee of our Department/Institute. His/her application is hereby sponsored/ forwarded and he/ she will be allowed to attend the workshop on "ENERGY ACCESS" during 4-6 February, 2017, at NIT Silchar.

Place:

Date:

Signature of Sponsoring Authority

Designation:

Official Seal:

## REGISTRATION FEES

There is no registration fee to attend the programme. Selected participants will be offered tea and lunch during the workshop. **Candidates will have to make their own accommodation and transport to attend the Workshop.**

Brochure and registration form can also be downloaded from our institute website: <http://www.nits.ac.in>

## ABOUT THE INSTITUTE

National Institute of Technology (NIT) Silchar, an Institute of National Importance under the NIT Act was established in 1967 as Regional Engineering College (REC) Silchar in Assam. In the year 2002, it was upgraded to the status of an NIT from REC. NIT Silchar is situated on the banks of river Barak and on a sprawling campus spread over 600 acres of land on the outskirts of Silchar. The landscape of NIT Silchar campus is beautiful with natural lakes and hillocks, surrounded by tea gardens. The climate of Silchar during Jan-March is very pleasant with normal day-time temperature around 28°C. NIT Silchar is a fully residential Institution with nine hostels for boys and three hostels for girls. NIT Silchar runs 6 B. Tech. programmes, 15 M. Tech. programmes, 3 M.Sc. programmes, an MBA programme besides Ph.D. programmes across all Departments.

## ADDRESS FOR CORRESPONDENCE

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Or

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National Institute of Technology, Silchar

SOLAR ENERGY AWARENESS PROGRAMMES IN THE  
NORTH EAST

**A THREE-DAY WORKSHOP**

on

## Remote Village Electrification

**4 February– 6 February 2017**

**Sponsored by**

**NATIONAL INSTITUTE OF SOLAR ENERGY**

**(An Autonomous Institute under the Ministry of New and  
Renewable Energy Sources, Govt of India)**

Faridabad-Gurgaon Road, Gwal Pahari,

Gurgaon 122003

**Coordinators**

**Prof Fazal A Talukdar**

**Prof. Rajat Gupta**



*Organized by*

**NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR**  
**(An INSTITUTE OF NATIONAL IMPORTANCE)**  
**SILCHAR-788010, ASSAM, INDIA**