

Announcement: *Training Programme for “Installation, Commissioning, Testing and Operation& Maintenance of Scheffler Solar Cookers and Steam Cooking Systems”.*

Duration: 7 days. 21st to 27th January 2012

Venue : S.S.V.P.S. BSD College of Engineering, Dhule: 424005, INDIA and PRINCE center at Chandak Farm and MIDC Dhule.

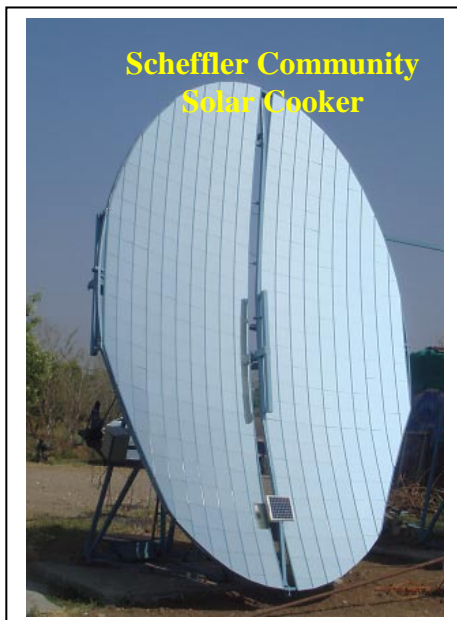
Organisers: S.S.V.P.S. BSD College of Engineering, Dhule AND PRINCE (Promoters & Researchers In Non Conventional Energy), Suman Foundation, Shamgiri, Agra Road, Opposite Swagat Lodge, Deopur, DHULE: 424005 INDIA

In association with: [Ministry of New & Renewable Energy, Govt. of India,](#)

Introduction: Scheffler solar concentrators are now established in India, but not without problems. Major problems are identified in the areas of installation, commissioning and operation & maintenance of the Scheffler concentrators. For promoting Scheffler installations on large scale for direct cooking and steam cooking systems bottleneck is not manufacturing but having expert teams for installation and commissioning. For this reason a workshop is planned for technicians, engineers and supporting staff to get hands on training.

Prof. Ajay Chandak has experience of conducting hardcore training programs in the area of solar cooking and other renewable energy technologies. Training programs conducted by SSVPS BSD College of Engineering and PRINCE in the past have shown very promising results. PRINCE (Promoter & Researchers In Non Conventional Energy) is a voluntary group working under NGO Suman Foundation. Details of the organisation can be viewed on our website www.princeindia.org . More than 70% registered manufacturers of solar dish cookers in MNRE are our trainees.

Objectives :



- a. Capacity building. Developing technical manpower for installation, commissioning, testing and operating Scheffler Solar Concentrators for direct cooking and steam generation systems.
- b. Provide trained manpower to existing manufacturers, installation teams and their dealers in Scheffler solar concentrators.
- c. Providing skilled operators and maintenance staff to the users where systems are already installed or to be installed.
- d. Develop independent technicians teams who can cater to the requirements of Scheffler manufacturers for installation and service related issues.

Methodology of Training :

- i. Introducing participants about the Scheffler concentrator, design and usage concept. Brief theory of Scheffler concentrators. MNRE's specifications of Scheffler concentrators and schemes for the same under solar mission.
- ii. Providing manuals and exercises on reading and understanding manuals.
- iii. Practical aspects: To be executed by the participants as per trainers directives.
 - a. Direction marking using Sun diagram, solar calculators, google earth tools and GPS facilities.
 - b. Calculations using latitude data for vertical axis orientation.
 - c. Fixing mirrors on dishes. All participants should fix at least two dishes, one of 10 sqm and one of 16 sqm.
 - d. Installation of two dishes, one of 10 sqm for direct cooking and other of 16 sqm for steam cooking.
 - e. Installation of cooking place.
 - f. Installation of steam receiver.
 - g. Installation of tracking mechanism. Setting of tracking mechanism.
 - h. Pressure testing of steam receivers.
 - i. Testing of Scheffler with cooking place and also with steam receiver.
 - j. Demonstrating wrong installation and effect of wrong installation.
 - k. Practicing seasonal tracking adjustments.
 - l. Creating faults and fault finding and rectification exercises.
- iv. Brainstorming and experience sharing, resolving queries from the participants. Sharing field experiences and resolving field problems.
- v. Certification: Participants will have to give satisfactory demonstrations of the skills learned in last two days and then only the certification will be provided.

Medium of Instructions: English and Hindi.

Fees: Fees for the workshop is Rs. 2000/- per participant. This fee includes cost of all course material, tea, breakfast and lunches for the duration of the workshop. It also includes local travel to factory of solar cookers, and demonstration sites. This Subsidised fee is charged because of financial support from MNRE for 30 participants. Organisers will arrange for stay of participants on request at nearby hotels. Accommodation can be organised in Institute guest house or hostels at very nominal charges.

Eligibility: No bar. Anybody can participate. We recommend that technicians who are already working with manufacturing of Scheffler concentrators, solar cookers or solar water heaters will be benefitted the most. Other technicians, engineers who wish to work as contractors or vendors for existing Scheffler manufacturers are most welcome.

Technicians and engineers from dealers of renewable energy products can avail training and carryout installation in their region.

Staff from 'State Nodal Agencies', who are expected to promote, verify and certify Scheffler installation should also participate to understand the systems better.

We encourage participation from existing manufacturers and traders of solar water heating systems, box cookers, Akshay Urja shop owners etc. We also encourage participation from all new entrepreneurs. People having background of ITI, diploma or degree in engineering from any disciplines and having entrepreneurship aptitude are also welcome. **This is not an academic workshop and people interested only in academic exercise not leading to practical applications will not be entertained.**

There are only 30 seats sponsored by MNRE for the workshop and Organisers reserve right of admission to this workshop. Participants already working with manufacturers of solar systems will be given priority.

Registration: Interested members/organisations may contact organizers through email/phone and communicate their willingness with brief introduction about themselves and their organisation. Organisers will communicate you regarding your selection for the program and payment details. Contact: renewable.india@gmail.com , Cell no. 0091-9823033344, Prof. Ajay Chandak. **Interested participants may book their seats in advance. Being field training we have very limited seats.**

Venue for the event: SSVPS BSD College of Engineering, Dhule: 424005
Field training at Chandak farm and MIDC Dhule.

HOW TO REACH DHULE: People coming from Mumbai side can come by train. Dadar Amrutisar express has two coaches directly connected to Dhule and timings are also comfortable. Train leaves Dadar at 11.45 p.m. and reaches here at 7.20 a.m. For return the train leaves Dhule at 7.25 p.m. and reaches Dadar at 4.0 a.m. For people coming from south India or North India nearest convenient railway stations are Bhusaval 125 km, Jalgaon 95 km, Chalisgaon 55 km, Amalner 35 km, Manmad 90 km. All these stations are well connected by road to Dhule and there are frequent buses from State Transport. Get back to us if you need any assistance in your travel planning.

For details contact:

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