

INTERNATIONAL TRAINING COURSE(S)

on

Rural Electrification with Small Hydropower

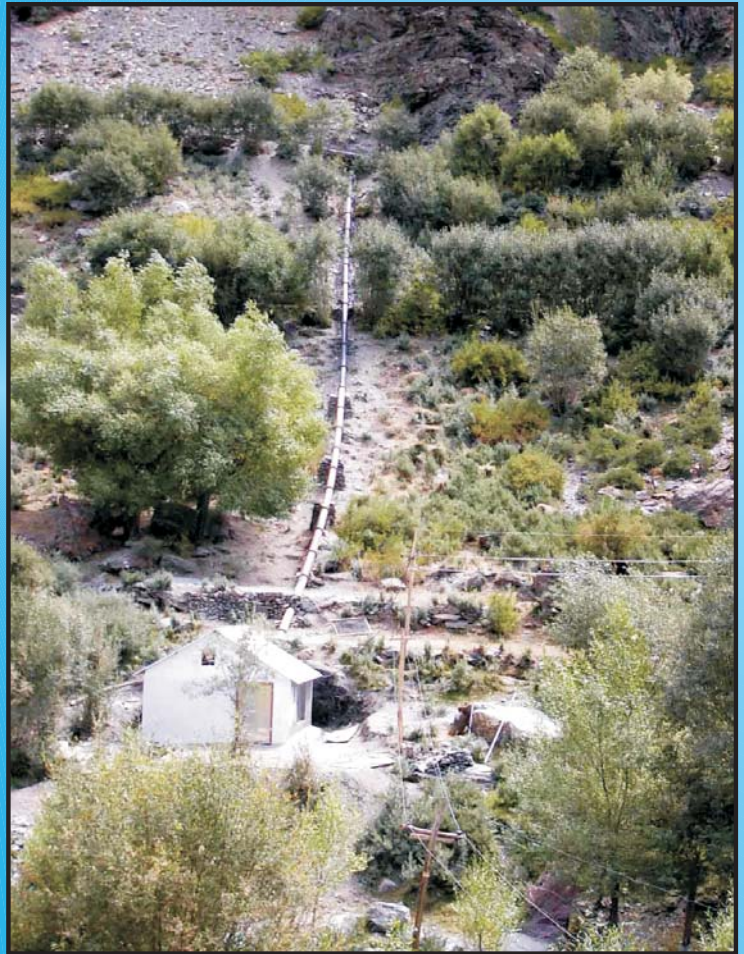
for participants from African countries Under India - Africa Forum Summit - II

March 06 - 17, 2012

May 21 - June 02, 2012

May 20 - June 01, 2013

at Roorkee, INDIA



Sponsored by



Ministry of External Affairs (MEA)
and
Ministry of New and Renewable Energy (MNRE)
Government of India, New Delhi

Organised by



Alternate Hydro Energy Centre
Indian Institute of Technology Roorkee
Roorkee - 247 667 (Uttarakhand) India

COURSE OBJECTIVES

There is a considerable demand throughout the world for increased electricity supplies in rural and outlying areas; only about 5% of the population living in such areas in the developing countries have access to an electricity supply.

Lot of activities have recently been initiated in developing countries on the above subject. In view of the importance of the programme in all the countries of the world, it becomes increasingly imperative to disseminate knowledge of advances made in the technological development of the sector. The courses are aimed to provide:

- Advanced level training to International participants about the planning and present state-of- SHP based rural electrification and the Recent Innovations Developments in various facts of the programme like implementation of SHP, arrangement of power form isolated SHP stations design of mini/isolated grids etc.
- To facilitate the exchange of information of latest technological developments been made in target countries in the area of Rural Electrification.

TARGET PARTICIPANTS

With Engineering/ Scientific background and are involved in rural electrification/Hydropower Development and having two years professional experience in African Countries. The participants may be from government departments, academic institutions, private developers, manufacturers and NGO etc. who are contributing or intend to contribute in Small Hydropower Development in African Countries. Participants are to be in good health, proficient in English reading, speaking and listening. The candidates are expected to send their professional background along with a copy of CV to accept the candidature by the organizing institute. There is no age limit for the participation. However Participants are to be in good health, proficient in English reading, speaking and listening.

COURSE PROGRAMME

The classroom teaching using modern teaching aids, group discussions, site visits etc. will be used to impart training. The course will have lectures, tutorials, exchange of experiences of participants from different counties through country presentations, case studies and software development for SHP project involving latest technology.

TENTATIVE COURSE TOPICS

The course will cover the following topics:

- Overview of SHP Development.
- Comparative Country policies for small hydropower development
- An overview of SHP based Rural Electrification.
- Status of the art of Rural Electrification programme in developing countries.
- Use of modern technique such as GPS, RS and GIS for conducting Surveys, investigation and planning.
- Economic and Financial Aspects of Rural Electrification programme
- Assessment of the resources of remote areas.
- Modelling of rural electrification of an area.
- Technical and managerial issues.
- Case studies of SHP based Rural Electrification.
- Visit to Power Stations
- Social and Cultural Excursions



NUMBER OF SEATS

There shall be only 25 seats for each course. Accordingly, the participants are advised to send their nominations at the earliest. The admission will be granted on first cum first basis by given the representation to large number of countries. Women candidates are encouraged to apply.

VENUE

The courses will be held at Alternate Hydro Energy Center (AHEC), Indian Institute of Technology Roorkee (Uttaranchal), India. Roorkee is about 180 km North of Delhi and has a number of academic and research Institutions. It is connected by road and rail from Delhi. The nearest international airport is in New Delhi.

BOARDING/LODGING & COURSE FEE

All the expenses during the course on accommodation, boarding, field visits and course material will be borne by organizer directly through sponsorship from Ministry of External Affairs, Govt. Of India. The accommodation is arranged at Officers guest house (Continuing Education/Khosla International House) of Indian Institute of technology, Roorkee. There is no course fee for attending the course.

TRAVEL

The expenses on travel from their home town to Delhi International Airport and back shall be met by Indian Mission in host country under India-Africa Forum Summit-II.

The organizer and sponsor would not hold any responsibility for risk of illness, accidents and loss of property incurred by the participants. Participants are strongly advised to insure themselves for such risks.

The travel of participants from Delhi Airport to Roorkee and back of to Delhi airport shall be arranged/met by host institution on the receipt of the confirmed programme in advance.



COURSE FACULTY

The course faculty will comprise faculty of AHEC and other departments of the IIT, Roorkee, planners, policy makers, equipment manufacturers and engineers with considerable experience in SHP development. The experts from other countries are also expected to deliver the expert lecturers.

THE SPONSOR, MINISTRY OF EXTERNAL AFFAIRS GOVT. OF INDIA

The Ministry of External Affairs (MEA), Government of India and Ministry of New and Renewable Energy, Government of India, the nodal Ministry for the development of Small Hydropower (upto 25 MW) has sponsored the course(s).

AHEC, THE HOST INSTITUTION

Alternate Hydro Energy Center (AHEC) was set up initially at Indian Institute of technology, Roorkee by the Ministry of New Renewable Energy (MNRE), government of India, in the year 1982 to work for power generation through the development of small hydropower in hilly as well as in plain areas. AHEC, an Academic centre of IIT, Roorkee, has been imparting training to the field engineers and technologists regularly. It provides real time simulator based training for operation of SHP Plants

It provides expert services on all aspects of SHP development to the utilities in both govt. and private sector nationally as well as to other developing countries. AHEC has been identified as 'Apex Technical Institution' for the Small Hydropower Development in India. AHEC offers to 4 semester duration master of Technology (M.Tech.) programme in "Alternate Hydro Energy Systems" and master of Technology (M.Tech.) programme in "Environmental Management of Rivers and Lakes" to national and international candidates.

For further information, please contact or write to:

Head,

Alternate Hydro energy Centre,
Indian Institute of Technology Roorkee
Roorkee-247667 (Uttarakhand), India
Phone : +91-1332 274254, 285213
Fax : +91-1332 273517, 273560
E-Mail : ahec@iitr.ernet.in, aheciitr@gmail.com
Website : www.iitr.ac.in/departments/AH/pages/index.html;
www.ahec.org.in

Applications are to be submitted to Indian Missions in the host country for which contact details may be seen at the link: <http://mea.gov.in/mystart.php?id=8700>

**GOVERNMENT OF INDIA
MINISTRY OF EXTERNAL AFFAIRS
INDIA-AFRICA FORUM**

(Application for the course fully funded by the Ministry of External Affairs, Government of India)

(Please read instructions carefully before applying)

APPLICATION FORM

PART - I

3×4 cm
Photograph

INTERNATIONAL TRAINING COURSE ON

Rural Electrification with Small Hydropower Development

For participants from African countries under India - Africa Forum Summit - II

- | | |
|--------------------------|--|
| <input type="checkbox"/> | Course 1: March 06 – 17, 2012 |
| <input type="checkbox"/> | Course 2: May 21 – June 02, 2012 |
| <input type="checkbox"/> | Course 3: May 20 – June 01, 2013 |

Nationality : _____ Name of Course : _____		
Institute : _____ Commencing from : _____ to _____ DD/MM/YYYY DD/MM/YYYY		
1. Personal Particulars		
Name(s): _____		
Surname: _____		
Sex (tick one): MALE / FEMALE		
Marital Status: _____		
Date of Birth: _____ Date - Month – Year		
Passport No.: _____ Date & Place of Issue: _____		
Valid Till: _____		
	Office	Home
Address:		
Tel Nos.		
Mobile/Cell:		

Fax:				
E-mail:				
Special dietary needs, if any: _____				
Person(s) to be notified in case of Emergency				
	Official Contact	Personal / Family Contact		
Name:				
Address:				
Tel Nos.				
Mobile/Cell:				
Fax:				
E-mail:				
Educational Qualification(s)				
Degree / Diploma / Certificates	Year	Name of Educational Institute		
1.				
2.				
3.				
4.				
Professional Qualification(s), if any:				
Professional Qualification(s)	Year	Name of Institute		
1.				
2.				
3.				
4.				
2. Details of Employment/ Profession (current & previous)				
Name of Employer / Department / Company	Position	Period	Description of work	
1.				
2.				
3.				
4.				
Are you an employee of: (Mark appropriate box)				
a. Government <input type="checkbox"/> b. Semi-government <input type="checkbox"/> c. Others <input type="checkbox"/>				
Details of present employer				
Name _____ / _____		address: _____		
Tel. No. : _____				
E-mail : _____				
3. Have you ever attended a course sponsored by the Government of India? (Mark one) YES/NO				
If answer to 3 is yes, details of the Course _____				

4. Details of Course(s) attended, if any, outside your country				
Country	Course	Details &	Year	Sponsor/Programme

MEDICAL REPORT

(To be certified by a doctor/hospital on the panel of the Indian Mission, UN Mission, if any or as designated by Indian Mission)

(i) Name of Applicant:
(ii) Age:
(iii) Sex: (Male / Female)
(iv) Height (cm):
(v) Weight (kg):
(vi) Blood Group:
(vii) Blood Pressure:

(i) Name of Applicant:	
1. Is the person examined in good health at present?	
2. Is the person examined physically and mentally to carry out intensive training away from home?	
3. Is the person free of infectious diseases (HIV/AIDS, tuberculosis, trachoma, skin diseases etc), Yellow Fever certificate (in case of people coming from that region or as laid out in WHO regulations)?	
4. Does the person examined have any medical condition or defect which might require treatment during the course?	
5. List of any observed abnormalities indicated in the chest X ray.	

I certify that the applicant is medically fit to undertake a training course in India.

Name of Doctor/Physician: _____

Registration No.: _____

Address of Clinic / Hospital _____

City/Town): _____

Telephone: _____

E-mail: _____ Date: _____

Signature of Doctor/Physician _____ Seal of Clinic/Hospital: _____

IMPORTANT NOTICE

- Please read the form carefully. The application will be automatically rejected if any column is inaccurate, incomplete or blank.
- Declaration by the candidate and the recommendations from employer, if any, are compulsory pre-requisites.
- Working knowledge of the English language is a pre-requisite. For English language and language related courses, basic knowledge of English is required.
- Candidates who leave the course midway for personal reasons without prior permission of the Ministry of External Affairs or remain absent from the programme without sufficient reasons are expected to refund the cost of training and airfare to Government of India.
- Female candidates are hereby advised that they should not travel to India to attend the Course applied for in case they are in family way.

UNDERTAKING BY THE APPLICANT

I, _____
(Name, Middle name, Family name)
of (country) _____ certify that information provided by me in this form is true, complete and correct.

I also certify that:

- (i) I have read the course brochure and that I am aware of the course contents and living conditions in India*.
- (ii) I have sufficient knowledge of English to participate in the training programme.
- (iii) I am medically fit to participate in the Course and have submitted a medical certificate from the designated doctor.
- (iv) I have not attended any programme previously sponsored by Government of India.
- (v) I have not applied for or am not required to attend any other training course/conference/meeting etc., during the period of the course applied for.

If accepted for the Training Programme, I undertake to:

- (a) Comply with the instructions and abide by Rules, Regulations and guidelines as may be stipulated by both the nominating and sponsoring Governments in respect of the training;
- (b) Follow the full and complete course of study or training and abide by the Rules of the University/Institution/ Establishment in which I undertake to study or undergo training;
- (c) Submit periodic assessments / tests conducted by the Institute (progress report which may be prescribed);
- (d) Refrain from engaging in political activity, or any form of employment for profit or gain;
- (e) Return to my home country at the end of the course of study or training;
- (f) I also fully undertake that if I am granted a training award, it may be subsequently withdrawn if I fail to make adequate progress or for other sufficient cause determined by the host Government.

For lady participants : I confirm that I will not travel to India to attend the Course I have applied for if I am in the family way.

Date:

Place:

(SIGNATURE OF THE APPLICANT)

Name: _____

* Details of the course are on the website of the Institute or can be obtained from them by e-mail.

PART – II

**To be completed by the authorized official of the
Nominating Government/Employer**

I, _____ on behalf of the
Government of _____ certify that:

I have examined the educational, professional and other certificates quoted by the nominee in Part – I of this form and I am satisfied that they are authentic and relate to the nominee.

I have gone through the medical certificates and X-ray reports produced by the nominee which state that he/she is medically fit and free from any infectious disease such as HIV/AIDS and Yellow Fever and that having regard to his/her physical and mental history there is no reason to indicate that the nominee is other than fit to undertake the journey to India and to undergo training in India.

The nominee has adequate knowledge of spoken and written English to enable him/her to follow the course of training for which he/she is being nominated.

I nominate Mr./Mrs./Miss _____ on behalf of the
Government of _____/as employer.

Name of Nominating Authority:
Designation:
Address:
Date:
Place:

Signature
(With seal)
Name and Designation
(in block letters)

