

**One Week Compulsory Training Course on**  
**“Clean Development Mechanism and Renewable Energy With Special Reference To Bio-Fuels”**



The training programme started as per the schedule with the registration of the participants and is inaugurated by Shri. B. Kalyan Chakravarthi, IAS, Director General and course material was released. The inaugural session was also chaired by Dr. V. Vasantha V. Thakur from MoEFCC.

16 IFS officers attended the programme from 6<sup>th</sup> July – 10<sup>th</sup> July,2015 sponsored by the Ministry of Environment and Forests & Climate Change (MoEFCC), Government of India, New Delhi, conducted by ENVIS Division at Environment Protection Training and Research Institute (EPTRI), Gachibowli, Hyderabad.

### **SUMMARIZING THE TRAINING PROGRAM**

The training program covered the entire cycle of developing and monetizing climate change impacts. Summary of items covered under the training is as given below:

#### ***1. Negotiations, Rules and Regulations***

Awareness and action on climate change has been a result of several global negotiations resulting in formation of regulations and rules at different level. First and last session of the training covered negotiations, COP decisions, development of Kyoto Protocol under UNFCCC, and outcome of Bali summit etc. It also covered the upcoming events i.e. UN Summit and Paris Cop21's expectations. It gave an outline of the three mechanisms under Kyoto Protocol. It introduced Clean Development Mechanism (CDM).

## **2. CDM – A Kyoto's Mechanism**

This part of the training through a series of sessions covered in detail the process of developing a CDM project. It described the CDM process in detail, how documentation is undertaken, what is a PDD, what it looks like. Further this topic went into the details of how validation and verification of a project can be undertaken. Case studies were used to describe the same. Further the training went into discussing the challenges of in developing a CDM project especially in the renewable and other sectors.

## **3. Carbon finance**

This section dealt with different forms of carbon finance. It started with the cap and trade mechanism under which CER's from CDM projects are traded. It covered historic pricing of CERs, current status and expected future of the same in second commitment period. The voluntary market of carbon finance was also discussed. This was continued by presentation on other carbon markets and the evolving carbon markets. Special reference was provided to forestry based funds and green climate fund. This section went into discussing their current status and how the participants or departments could utilize these to their benefit.

## **4. Biofuel and renewable energy**

This part of the training had elements of desk top case studies, field visit and presentation of India's current status and future expectations from this sector. Case studies on CDM projects in India, under PoA route and from outside India were used to explain how biofuel and renewable energy projects are developed under CDM. A field visit was undertaken to bio fuel manufacturing facility of Southern biotechnologies private limited near Hyderabad. India's policy initiatives, in biofuel and renewable energy, with the current status of implementation, and future technology wise expected installation in renewable energy was presented. The training also went into discussing the other sustainability aspects of scaling up these technologies and thought that needs to go into it.

## **5. Land use, land use change and forestry**

CDM projects under forestry in India were presented. The challenges faced in developing forestry based projects, was discussed under this section. To give forestry projects a thrust several other mechanisms are in place. REDD+ being one of them, hence, a presentation was put forward on REDD+ as well.