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# PARTNERSHIP FOR LAND USE SCIENCE (Forest-PLUS) PROGRAM

## *Report*

**Training program on Climate Change, Greenhouse Gas Inventories,  
Vulnerability, Mitigation and Adaptation analysis**

**July 9-10, 2013**

**Shimoga, Karnataka**



**July 2013**

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Vulnerability, Mitigation and Adaptation analysis

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### **DISCLAIMER**

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

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# ACRONYMS AND ABBREVIATIONS

DCF	Deputy Conservator of Forests
Forest-PLUS	Partnership for Land Use Science
FRLHT	Foundation of Revitalization of Local Health Traditions
GCC	Global Climate Change
GHG	Greenhouse Gas
KFD	Karnataka Forest Department
REDD	Reducing Emission from Deforestation and forest Degradation
TERI	The Energy and Resources Institute
USAID	United States Agency for International Development
VFC	Village Forest Committee

# REPORT

## 1. INTRODUCTION TO FOREST-PLUS PROGRAM

The **Partnership for Land Use Science (Forest-PLUS) Technical Assistance Program** is a five-year **USAID**-funded program to reduce emissions and enhance carbon sequestration through India's forests by taking REDD+ actions to scale. Working in close collaboration with MoEF and State Forest Departments, the Forest-PLUS Program will assist in developing and deploying scientific tools and methods for improved ecosystem management and carbon sequestration, forest carbon inventory and reference baselines; designing modalities/ programs for providing better incentives to forest dependent communities for promoting REDD+ activities; and enhancing human and institutional capacity.

## 2. BACKGROUND OF THE TRAINING PROGRAM

Training program on Climate Change, Greenhouse Gas Inventories, vulnerability, mitigation and adaptation analysis has been conceptualized as basic course on Climate Change and forestry to orient field functionaries of Karnataka Forest Department. This two-day training program was conducted on July 9-10, 2013 in Shimoga, Karnataka. This course was designed mainly for Deputy Range Officers, Forest Guards, and Watchers of Karnataka Forest Department.

## 3. PARTICIPANTS IN THE TRAINING PROGRAM

Details of participants (please see annex 2 for detail of participants) who attended this two days training program are as follows:

Sr No	Particular	Number
1.	Range Forest Officer	16
2.	Deputy Range Forest Officer	18
3.	Forest Guard	19
4.	Watchers	3
5.	Office superintendent	1
6.	Support staff	5
7.	Senior officials	2
8.	Total	64

## 4. PROCEEDINGS OF THE TRAINING PROGRAM

### 4.1. Inaugural session

Training coordinator of Forest-PLUS Program welcomed the participants and briefed about the Forest-PLUS Program and objective of the training program. Ms. Smita Bijjur, Chief Conservator of Forests, Shimoga Circle inaugurated the training program. She also welcomed all resource persons and Forest-PLUS team. She explained in brief about the Forest-PLUS Program and their expectations from the program. She said that such types of training programs should be organized for field staff on regular basis so that their knowledge base can be enhanced. Mr. Soumitri Das, Forestry Specialist, United States Agency for International Development (USAID), spoke about the objective of Forest-PLUS Program and elaborated the activities to be carried out.



Photo 1: Inauguration of training program by CCF, Shimoga Circle

### 4.2. Module 1: We and our environment

#### Session One: Understanding environment and its components

Dr. Jagannath Rao, from FRLHT, Bangalore took this session and explained about basics of our environment. He used interactive method of adult learning with the participants and made the session lively. He shared local examples for easy understanding of the participants.

#### Session Two: Screening of a short film on our environment:

After presentation and discussion one short film on environment in Kannada language was shown to the participants so they could link the previous session and get sensitized on the issues related to our environment.

#### Session Three: Open discussion



After screening of short film, participants asked questions. The objective of this session was to generate discussion so that participant could relate the concept with the local environment.

This module helped in understanding importance of environment in our life and also created learning environment for the participants.

### **4.3. Module 2: Global Climate Change**

#### **Session One:**

This session covered following topics

- Our changing environment – natural causes
- Our changing environment – role of humans
- Basic concepts and facts about Global Climate Change

The session was facilitated by Mr. Santosh Sutar of Centre for Environment Education, Bangalore. In his presentation he used more pictures from the Western Ghats and explained causes of climate change and concept of climate change to the participants.

#### **Session 2:**

Screening of a short film on Global Climate Change in English named ‘our beautiful planet’ and ‘watch this before you vote’ was done for the participants.

#### **Session 3: Open discussion:**

This session helped participants to get answers to their issues and concern about the topic and helped participants to learn more about the subject.

### **4.4. Module 3: Greenhouse Gases and their role in Global Climate Change**

#### **Session 1:**

This session was facilitated by Prof. Vasudeva R of Sirsi Forestry College, Sirsi. He explained greenhouse gas (GHG) with simple examples and covered following topics in the session:

- Greenhouse effect, Greenhouse Gases and their role in Global Climate Change
- Greenhouse Gas Inventories

#### **Session 2:**

A short film on Greenhouse Gases in Kannada developed by Karantaka Biodiversity Board was shown.

#### **Session 3:**

Open discussion on the issues related to GHG emission and how we can reduce it helped participants to understand how GHG emission is affecting their daily life.

At the end of first day Ms. Bijjur interacted with the participants to know what they learnt on first day and asked questions also. This showed department’s involvement and interest in this training program. To know about participants view we used mood barometer concept. Only two participants ticked on sad face. This indicates that all three session went well and they enjoyed it very well.



Photo2: Participants in training program

## Day Two: July 10, 2013

### 4.5. Recap of day one

Day started with recap of first day of training. Participants were given two cards to write their learning on two questions:

- What they learnt on first day about Climate Change?
- What are the topics on which they need more clarity?

#### Summary of the learning by participants:

1. What are the reasons of climate change
2. What are effects of Greenhouse Gases
3. Learn about composition of Greenhouse Gases, components of our environment, how to protect our environment and global climate change.
4. What are causes of ice melting on south and north poles and its effect on our environment



Photo 3: Recap

5. How human being is destroying environment for his requirements.

#### **Summary of what the participants wanted to know more a wish list:**

1. Forest conservation issues
2. How to conduct field studies to understand climate change
3. How to create awareness to fringed villages
4. More focus on discussion around local issues

#### **4.6. Additional Session: What is REDD+ and Forest-PLUS Program**

*This was additional session incorporated as requested by Ms. Smita Bijjur, Chief Conservator of Forests, Shimoga Circle. Mr. Soumitri Das, Forestry Specialist, USAID took the session. He explained participants about REDD+. He also explained how the Forest-PLUS Program would deliver on India's REDD+ readiness.*

#### **4.7. Module 4: Forests and Climate Change**

##### **Session 1: Role of forests in Global Climate Change**

This session was taken by Mr. Veerabaswant Reddy from TERI, Bangalore. He elaborated on types of forests and linked it with Western Ghats. He covered following issues in his session:

- What is an ecosystem and types
- What do you mean by global climate change
- What causes earth's climate to change
- Impact of climate change
- Forest ecosystem and there services
- Forests in India: Status and Trend
- Cause of forest depletion and its impacts (Services)
- Climate change impact on forest
- Climate change Adaptation /mitigation practices

##### **Session 3:**

Short film on Global Warming in Kannada was shown to participants. This helped them to understand links between forests and Climate Change.

##### **Session 4:**

In this session the participants raised questions on the issues linked with their work in their operational area. Resource persons tried to answer their most of the questions in open house discussion.

#### **4.8. Module 5: Addressing Global Climate Change - vulnerability, mitigation and adaptation**

##### **Session 1: Group work**

FOREST-PLUS: REPORT OF TRAINING PROGRAM ON CLIMATE CHANGE, GREENHOUSE GAS INVENTORIES, VULNERABILITY, MITIGATION AND ADAPTATION ANALYSIS

In this session the participants were given four questions on climate change relating to their area of operation. They were asked to use their learning of the day one and past experiences and elaborate on the question given to their group. A total four questions were given for group work and each group worked on one question and made presentation of their group work.

The questions were as follows:

1. What do you think how climate change is affecting life in your working area?
2. What are the changes in livelihoods pattern of forest dependent communities due to change in forest quality/ degradation?
3. Who are most affected by climate change or forest degradation in your working area and how we can help or assist them?
4. What is your suggestion to address climate change issues, reducing forest degradation and deforestation and change in use pattern of forest land?

### **Group work presentations:**

#### **Group one:**

**Question:** What do you think how climate change is affecting life in your working area?

- Due to variation and reduction in rainfall villagers started migrating to nearest town and urban areas
- Increase in forest degradation affecting ground water table negatively. It is going down and it is creating water scarcity both for drinking and production purpose
- Un-sustainable harvesting reduces availability of NTFPs, medicinal plants and other forest produces in the local forest area.
- Degradation of forest and heavy soil erosion from agriculture fields reducing agriculture productivity and production both.
- Change in climate can be observed now. This is also creating favorable environment for some diseases which we were not having earlier in our area

#### **Group two:**

**Question:** Change in livelihoods pattern of forest dependent communities due to change in forest quality/ degradation

- Five years back we could see lot of water available in our area. All the streams were full of water even in summer also, lot of water is in tanks and rivers, but now a day there is no water. This is negatively affecting our agriculture.
- Ground water tables went down from 250 feet to 800 feet.
- We realized that due to destruction of our forests many of birds, insects, and animals disappeared from our area.

- We are practicing monoculture in our farming. As a results lot of honeybees disappeared from the area. This shows that how we are destroying our biodiversity.

### Group three:

**Question:** Who are most affected by Climate Change/ forest degradation in your working area and how we can help/assist them?

<p><b>1. Human being:</b></p> <ul style="list-style-type: none"> <li>▪ Change the life style</li> <li>▪ Crop rotation methods to mono cropping – change it</li> <li>▪ Grow more trees, stop deforestation</li> <li>▪ Awareness programs</li> <li>▪ Promote local species</li> <li>▪ Reduce the greediness</li> <li>▪ Go for alternate to forest produces</li> </ul>	<p><b>2. Animals &amp; birds</b></p> <ul style="list-style-type: none"> <li>▪ Do not disturbed their habitats</li> <li>▪ Stop forest fires</li> <li>▪ Promote fruits yielding species</li> <li>▪ Water conservation, check dams construction</li> <li>▪ Reduce radiation effects</li> </ul>
<p><b>3. Flora (including plants)</b></p> <ul style="list-style-type: none"> <li>▪ Use organic manure than chemical</li> <li>▪ Afforestation</li> <li>▪ Creating awareness</li> <li>▪ Identifying affected species</li> <li>▪ Rare, endangered, threatened species – regrow them</li> </ul>	<p><b>4. Historical buildings</b></p> <ul style="list-style-type: none"> <li>▪ Reduce carbon percentage</li> <li>▪ Reduce GHG emission</li> <li>▪ Avoid acid rains chances</li> <li>▪ Do not install industries nearer to the historical buildings</li> </ul>

### Group four:

**Question:** What is your suggestion to address climate change issues, reducing forest degradation and deforestation and change in use pattern of forest land?

- This type of training program should be conducted at village /VFC/GRAMA PANCHAYATH level
- Conducting awareness programs for school and college students
- Implementation of forest rules and regulation in the forest areas
- Remove forest encroachment
- Encouragement for massive planting program focus to indigenous plant species
- Encouragement for road side, common land, village common land, agriculture land and bund plantation
- Promote solar energy
- Increase the tree cover in the urban areas
- Avoid using plastics and reduce air pollution
- Promoting soil and water conservations programs and wind energy
- Every citizen should change their life style for conservation of our nature

## Session 2:

This was last session of this training program. The session was facilitated by Dr. Sudarshan G. T. Secretary of CORDEA organization working in Western Ghats. The session covered following sub topics:

- Understanding Mitigation and Adaptation
- India's National Action Plan on Climate Change and its eight missions
- Green India Mission

## Session 3:

Screening of a short film on vulnerability to climate change was shown to the participants. The film was in Kannada language and helped participants to link their field issues with the larger issues of climate change – adaptation and mitigation and how they can work on it.

## 5. FEEDBACK SESSION:

The training program was well received by the participants and this was a first kind of training program for them in this issue. For some officials it was like refresher training because they already had broader understanding on the issues. Participants were given a feedback form to provide their feedback. It was a bi-lingual feedback form so that participants who are not comfortable in English can give their feedback in Kannada language. Even after giving feedback form in Kannada most of the participants not filled it completely. Only 60% participants filled it completely. Analysis of participant's feedback is given in the annex 1.

## 6. VALEDICTORY SESSION

In both days of training program Ms. Smita Bijjur, Chief Conservator of Forests took keen interest and ensured complete attendance and active participation of the staff. In her valedictory remarks, she said that we need to organize such program on regular basis and also organize special program for higher level officials in her circle involving good quality resource person. She also said that senior officials also need more information at national and international level on climate change issues.

Training Coordinator, Forest-PLUS program, expressed his gratitude to CCF and her office staff who extended all their support and cooperation in making training program successful. He also said that without support and cooperation from the office staff it was not

### Suggestion from participants:

- These types of training needs to be organized at field level for community and local leaders
- One such training needs to be organized for politicians, elected representatives at field and higher level
- Organize trainers training for the state officials so we can conduct further trainings for our staff
- Mobile audio visual van can be used for field training
- Provide reading material in soft format as most of them have their own computer
- Also conduct such training program focusing on urban population who contribute more in polluting environment than rural people



possible to make this program successful.



# ANNEXURE 1: AGENDA



## Forest-PLUS Partnership for Land Use Science

**Training program on  
“Global Climate Change (GCC), GHG inventories, vulnerability, mitigation and adaptation”  
For frontline State Forest Department Officials**

### Program Schedule

**Day One- 9<sup>th</sup> July 2013**

Time	Session	Resource person
9:00 AM to 10:00 AM	Registration of participants	Training Coordinator
10.00 AM to 10.15 AM	Introduction to the training course	
10.15 AM to 10.30 AM	Welcome address	Mrs. Smita Bijjur, CCF, Shimoga Circle
<b>Module 1. We and our environment</b>		
10.30 AM to 11.30 AM	<b>Session 1:</b> Understanding environment and its components	Mr. Jagannatha Rao R. Senior Program Officer, FRLHT, Bangalore
11.30 AM to 12.00 Noon	Tea break	
12.00 Noon to 12.45 PM	<b>Session 2:</b> Screening of a short film on our environment	
12.45 PM to 01.00 PM	<b>Session 3:</b> Open house discussion	
1.00 PM to 2.00 PM	<b>Lunch break</b>	
<b>Module 2. Global Climate Change</b>		
2.00 PM to 2.45 PM	<b>Session 1:</b> Our changing environment – natural causes Our changing environment – role of humans Basic concepts and facts about Global Climate Change	Mr. Santosh Suthar CEE, Bangalore
2.45 PM to 3.15 PM	<b>Session 2:</b> Screening of a short film on Global Climate Change	
3.15 PM to 3.30 PM	<b>Session 3:</b> Open house discussion	
3.30 PM to 4.00 PM	<b>Tea break</b>	
<b>Module 3. Greenhouse Gases and their role in Global Climate Change</b>		
4.00 PM to 4.45 PM	<b>Session 1:</b> Greenhouse effect, Greenhouse Gases and their role in Global Climate Change Greenhouse Gases Inventories	Prof. Vasudeva R. Associate Professor College of Forestry Sirsi
4.45 PM to 5.15 PM	<b>Session 2:</b> Interactive exercise	



5.15 PM to 5.30 PM	<b>Session 3:</b> Open house discussion	
<b>Day Two – 10<sup>th</sup> July 2013</b>		
<b>Time</b>	<b>Session</b>	<b>Resource person</b>
9.30 AM to 10.15 AM	<b>Recap -</b> Interactive session on recapitulation of key points from Day 1	Training Coordinator
<b>Module 4. Forests and Climate Change</b>		
10.15 AM to 11.00 AM	<b>Session 1:</b> Role of forests in Global Climate Change	Mr. Veerabaswant Reddy, TERI, Bangalore
11.00 AM to 11.30 AM	<b>Tea break</b>	
11.30 AM to 12.15 PM	<b>Session 2:</b> Interactive group work	
12.15 PM to 12.45 PM	<b>Session 3:</b> Screening of short film on links between forests and Global Climate Change	
12.45 PM to 1.00 PM	<b>Session 4:</b> Open house discussion	
1.00 PM to 2.00 PM	<b>Lunch break</b>	
<b>Module 5. Addressing Global Climate Change - vulnerability, mitigation and adaptation</b>		
2.00 PM to 2.45 PM	<b>Session 1:</b> Global Climate Change and our life and livelihoods–vulnerability at global, national and local scales	Group Work
2.45 PM to 3.15 PM	<b>Session 2:</b> Screening of a short film on vulnerability to climate change	
3.15 PM to 3.30 PM	<b>Session 3:</b> Open house discussion	
3.30 PM to 4.00 PM	<b>Tea break</b>	
4.00 PM to 4.45 PM	<b>Session 4:</b> Understanding Mitigation and Adaptation International and national initiatives to address Global Climate Change India's National Action Plan on Climate Change and eight missions Green India Mission	Dr. Sudarshan. G.T. Secretary, CORDEA, Davangere
4.45 PM to 5.00 PM	<b>Feedback session</b>	Training Coordinator
5.00 PM to 5.30 PM	<b>Valedictory session</b>	Mrs. Smita Bijjur, CCF, Shimoga Circle

## ANNEXURE 2: EVALUATION ANALYSIS

Session	Excellent	Very Good	Good	Average	Poor	NR	Total
<b>Module 1. We and our environment</b>							
<b>Session 1:</b> Understanding environment and its components	9	10	17	3	0	1	40
<b>Session 2:</b> Screening of a short film on our environment	9	16	11	4	0	0	40
<b>Module 2. Global Climate Change</b>							
<b>Session 1:</b>							
▪ Our changing environment – natural causes	4	10	14	3	0	9	40
▪ Our changing environment – role of humans	3	11	9	1	0	16	40
▪ Basic concepts and facts about Global Climate Change	3	7	13	3	0	14	40
<b>Session 2:</b> Screening of a short film on Global Climate Change	9	14	13	3	0	1	40
<b>Module 3. Greenhouse Gases and their role in Global Climate Change</b>							
<b>Session 1:</b>							
▪ Greenhouse effect, Greenhouse Gases and their role in Global Climate Change	8	10	14	0	0	8	40
▪ Greenhouse Gases Inventories	9	9	7	1	0	14	40
<b>Session 2:</b> Interactive exercise	3	9	11	2	0	15	40
<b>Module 4. Forests and Climate Change</b>							
<b>Session 1:</b> Role of forests in Global Climate Change	4	12	19	4	1	0	40
<b>Session 2:</b> Interactive group work	8	12	14	1	0	5	40
<b>Session 3:</b> Screening of short film on links between forests and Global Climate Change	7	15	14	3	0	1	40
<b>Module 5. Addressing Global Climate Change - vulnerability, mitigation and adaptation</b>							
<b>Session 1:</b> Global Climate Change and our life and livelihoods–vulnerability at global, national and local scales	2	12	11	7	1	7	40
<b>Session 2:</b> Screening of a short film on vulnerability to climate change	7	15	9	3	0	6	40
<b>Session 3:</b>							
▪ Understanding Mitigation and Adaptation	6	4	13	3	0	14	40
▪ International and national initiatives to address Global Climate Change	0	7	12	3	0	18	40
▪ India's National Action Plan on Climate Change and eight missions	4	3	13	1	0	19	40
▪ Green India Mission	1	5	12	3	1	18	40



# ANNEXURE 3: LIST OF PARTICIPANTS

S N	Name &	Designation	Organization & Address
<b>Senior officials from Forest Department</b>			
1.	R.K Srivastava, IFS	Chief Conservator of Forests - ICT	Karnataka Forest Department, Aranya Bhavan, Bangalore
2.	Smita Bijjur, IFS	Chief Conservator of Forests	Shimoga Circle, Sandal Kote, Shimoga
3.	R. RaviShankar IFS	Deputy Conservator of Forests	DCF, Sagar
4.	Malikarjuna.KV	Deputy Conservator of Forests	DCF Shimoga
5.	Ravi Kumar TJ	Deputy Conservator of Forests	DCF, Shimoga
6.	Girish N.C	Assistant Conservator of Forests	FMS, Shimoga
7.	N.B Manjunath	Assistant Conservator of Forests	ACF Channagiri
<b>USAID &amp; Forest-PLUS Program Team</b>			
8.	Soumitri Das	Forestry Specialist	USAID, New Delhi
9.	Sandeep Khanwalkar	Training Coordinator	Forest-PLUS Program, New Delhi
10.	Aatish Khan	Program Officer	InsPIRE Network for Environment, New Delhi
<b>Participants</b>			
<b>Sagar Division</b>			
11.	H.S Prakash	Range Forest Officer	Sagar Division
12.	K.M Mruthyunjayappa	Range Forest Officer	Nagara, Sagar Division
13.	T. Govindaraju	Deputy Range Forest Officer	Nagara, Sagar Division
14.	Dileep	Deputy Range Forest Officer	Nagara, Sagar Division
15.	S.V Madhukara	Deputy Range Forest Officer	Nagara Sagar Division
16.	Ismaile	Deputy Range Forest Officer	Hosanagara Range,
17.	Ibrahim	Deputy Range Forest Officer	Hosanagara Range
18.	Ashok Kumar B.H	Range Forest Guard	Range Forest Office Nagara,
19.	Gururaja H.S	Range Forest Guard	Range Forest, Office Nagara
20.	Vasantha Madav	Range Forest Guard	Nagar Range, Sagar Division
21.	B.H Yashodhara	Range Forest Guard	Hosanagara Range
22.	Nagalinga Acharya	Range Forest Guard	F.G Hosangara Range
<b>Bhadravathi Division</b>			
23.	B. Mukundachandra	Range Forest Officer	Bhadrawati Range
24.	G. Hanumanthappa	Deputy Range Forest Officer	Bhadrawati,
25.	Madhu .E	Deputy Range Forest Officer	Tarikere Range
26.	Pradeep M. S.	Deputy Range Forest Officer	Tarikere Range
27.	Chennegowda G.T	Range Forest Guard	Bhadrawati Range
28.	Ryaz Ahmed	Range Forest Guard	Range Forest Office, Tanikere
29.	Kiran Kumar C. D.	Range Forest Guard	FMS Channagiri Bhadrawati
30.	Manu.M	Range Forest Guard	Ajjampura
31.	S.Challaiiah	Forest Watcher	Lekkavalli Range
<b>Shimoga Division</b>			

32.	C.Y Shivamurthy	Range Forest Officer	Thiru, Shimoga Division
33.	B. G. Ravi Kumar	Range Forest Officer	Mandgadde, Shimoga Division
34.	Siddalinga Sangalaka	Range Forest Officer	Sandal kot, Shimoga Division
35.	N. H. Chandrashekhar	Deputy Range Forest Officer	Mandaygodda Range Shimoga
36.	H.B Lakshminappa	Deputy Range Forest Officer	Ripponpet Range,
37.	S.Amith	Range Forest Guard	Nandagadde Range
38.	Yatesh. H.H	Range Forest Guard	Mandagadde Range
39.	N. Srinivas	Range Forest Guard	Mandgadde Range
40.	Manjunath	Range Forest Guard	Sandal Koti
<b>Wildlife Shimoga Division</b>			
41.	A. Gopal	Range Forest Officer	Hanagere, Wildlife Shimoga
42.	Anthony Rego	Deputy Range Forest Officer	Shimoga W/L Range Shimoga,
43.	M.W. Maruthi Babu	Range Forest Guard	Wildlife Range Forest Guard
<b>Research Division, Shimoga</b>			
44.	Mohammed Saifulla	Deputy Range Forest Officer	Research Shimoga Division
45.	Rajugowda	Range Forest Guard	Research Shimoga
<b>Working Plan Division, Shimoga</b>			
46.	Umesh	Deputy Range Forest Officer	Conservator of Forests, Working Plan & Survey, Shimoga
47.	Malash Swaraswati	Range Forest Guard	Working Plan & Survey,
<b>Canara Circle</b>			
48.	S. Satish	Range Forest Officer	Jeydbet, Halyal Canara Circle
49.	Ajjappa Kurubar	Range Forest Officer	Haliyal, Canara Circle
50.	Harish, C.N	Range Forest Officer	Herseppa, Canara Circle
51.	Pradeep M. Naik	Deputy Range Forest Officer	Canara Circle
52.	Mahalinga Siddappa Kolavi	Range Forest Guard	Canara Circle
<b>Chikmangalore Circle</b>			
53.	V.S Ravindra Nayak	Range Forest Officer	GTD Kudru,
54.	T. Kalappa Gowda	Range Forest Officer	GTD, NR Pura
55.	Sudarshan, G.K	Range Forest Officer	Mudigere
56.	Varun C Sheety	Deputy Range Forest Officer	NR Pura Range
57.	Shivraj. S	Deputy Range Forest Officer	Bhadra Wild Life Range, Lakkarwali
58.	Shivlainagappa	Range Forest Guard	
59.	A.S Aravind	Range Forest Guard	Kadur Range, CKM Division
60.	Pradeep UK	Forest Watcher	CKM Range
<b>Resource person</b>			
61.	Dr. R. Vasudeva	Resource Person	Prof. College of Forestry
62.	Mr. Santosh R	Resource Person	CEE Santh, 143 Kamla Mansion, Infinity Road, Bangalore
63.	Dr. Sudarshan GI	Resource Person	Secretary CORDEA Davangere
64.	Mr. Veerabaswant Reddy	Resource Person	TERI, Bangalore
65.	Dr Jagannath Rao	Resource Person	Senior Program Officer, FRLHT, Bangalore
<b>Others &amp; Support staff</b>			
66.	Darnd J Barkar	Range Forest Officer	Sirg.

67.	R.N Gonde	Range Forest Officer	
68.	B.K Malikarjun	Range Forest Officer	GTDS Pete
69.	Halesh Kumar	Deputy Range Forest Officer	Shankar Range
70.	L.P.Naig	Deputy Range Forest Officer	
71.	Youns Beig N	Forest Watcher	Koppa Range
72.	M. Rajappa	Superintendent	CCF Office, Shimoga
73.	Hareena Banu	Range Forest	Computer Operator, CCF Office, Shimoga
74.	Muddegowda	Range Forest	Stenographer CCF office, Shimoga
75.	H.Y Anusuyamma	Range Forest	FDA CCF Office, SMG
76.	Pamithra K.G	Range Forest	SDA CCF Office, Shimoga
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