

REPORT ON TRAINING UNDER VAN VIGNAN KENDRA (VVK) AT KORAPUT, ODISHA.



Theme: Conservation of Forests with emphasis on RET Species

Venue: Wildlife Crime Control & Coordination Centre, in RCCF Office Campus, Koraput, Odisha.

Date: 12th March, 2020

Time: 9-30 AM to 5 PM

Facilitator: Forest Research Centre for Coastal Ecosystem (FRCCE), Visakhapatnam through IFB, Hyderabad (Indian Council of Forestry Research & Education (ICFRE)).

Dignitaries: Chief Guest Shri Akshay Pattanaik, IFS, CCF, T&D Odisha; Special Guest Shri L. K Das, Retired CCF, Odisha; Dr. S. Chakrabarti, Scientist G & Head, FRCCE, Visakhapatnam; Ms. Rinku Kumari, IFS DFO, Koraput,

Special Invitee: Dr. Karthik C. Lenka, a scientist from MSSRF, Jeypore, Shri Ajit Kumar Rout, Senior Liaison Officer of Coffee Board, Koraput.

Training Team: Smt. Anusha Tellabati, Technician, Visakhapatnam; Shri Manikanta Reddy, Technician IFB, Hyderabad & Shri Sagar Reddy, Technician IFB, Hyderabad.

Trainee: Total 48 front-line forest staffs from 5 different forest divisions registered and 10 more local staffs participated in technical sessions.



The Programme

Time	Session Details	Speaker	Compere/Rapporteur/ Support
Inaugural Session			
9-30 AM to 10-00 AM	Registration of Participants & Distribution of Course Materials		Shri S. Lakshmana Rao & Smt. Anusha T
10-00 AM to 10-10 AM	Lighting of Lamp by Dignitaries		Smt. Anusha T
10-15 AM to 10-25 AM	Welcome Address by Head, FRCCE, Visakhapatnam	Dr. S. Chakrabarti	Manikanta Reddy
10-25AM to 10-30 AM	Introductory speech by DFO, Koraput	Ms Rinku Kumari, IFS,	Manikanta Reddy
10-30 AM to 10-35 AM	Speech by Special Guest	Shri L. K. Das, IFS, Retd. CCF,	Manikanta Reddy
10-35 AM to 10-45 AM	Inaugural speech by CCF, T&D, Bhubaneswar, Odisha	Shri Akshay Pattanaik, IFS	Manikanta Reddy
10-45 AM to 11-00 AM	Tea Break & Group Photo Session		Shri S. Lakshmana Rao & Shri Sagar
Technical Session: I			
11-00 AM to 12-00 PM	RET species of Odisha and their importance for conservation	Shri Manikanta Reddy	Shri Sagar & Smt. Anusha T
12-00 PM to 1-00 PM	Zero Cost Technique for enhancing germination percentage of difficult seeds of tree: A Case Study	Dr. S. Chakrabarti	Shri Sagar & Smt. Anusha T
Lunch Break: 1-30 PM to 2-30 PM			
Technical Session: II			
2-30 PM to 3-30 PM	Forest Cover of Odisha with special reference to Mangrove	Smt. Anusha T.	Shri Sagar & Shri Manikanta Reddy
3-30 PM to 4-00 PM	Scope of Coffee in Koraput region	Shri Ajit Kumar Rout, SLO, Coffee Board, Koraput	
4-00 PM to 4-20 PM	Mangrove Plant Community of Odisha and its conservation	Dr. S. Chakrabarti	Shri Sagar & Shri Manikanta Reddy
Valedictory Session			
4-20 PM to 4-30 PM	Concluding Speech	Dr. S. Chakrabarti	Shri Manikanta Reddy
4-30 PM to 4-50 PM	Distribution of Certificates	Dr. S. Chakrabarti	Shri S. Lakshmana Rao
4-50 PM to 4-55 PM	Vote of Thanks from FRCCE	Smt. Anusha T.	
4-55 PM to 5-00 PM	Vote of Thanks from Forest Dept.	Shri Mahesh, ACF	

Preamble

India, a mega diverse country with 2.4% of the world's land area, accounts for 7-8% of all recorded species, including over 45,000 species of plants and 91,000 species of animals. The country's diverse physical features and climatic



conditions have resulted in a variety of ecosystems. Conservation of rare, endangered and threatened (RET) plant species is an important issue. Hundreds of RET plants in India have already been recorded and their conservation suggested. The Red Data Book-2 has enlisted 622 vascular plant species (VPS) of Indian flora till 1990; this red figure rose to 1255 VPS till 2003, and it is on the increase day by day. In India, the RET species constitute 7.7% of known VPS. Globally, 13.8% of VPS are RET. According to the International Union for Conservation of Nature and Natural Resources, the current species extinction rate is between 1000 and 10,000 times higher than it would naturally be. Once a species becomes extinct, the particular genetic resource is lost forever. Mere enlisting of RET species, as often done, has no meaning unless the dwindling populations are properly conserved.

Keeping in view, of the above facts, Forest Research Center for Coastal Ecosystem (FRCCE), Visakhapatnam organized a one day training programme on "Conservation of Forests with emphasis on RET Species" for Foresters, Range officers, and ACFs at Wildlife Crime Control & Coordination Centre, in RCCF Office Campus,, Koraput, Odisha on 12th March 2020 under Van Vigyan Kendra (VVK) concept. About 60 forest rangers, foresters along with ACF's of different forest divisions of Odisha forest department with media people participated in the training program.



Inaugural Session

As registration of trainees was over, the Training started with ribbon cutting ceremony by DFO Koraput, of exhibits of local medicinal plant-products, tools used in modern silvicultural process as well as publications of ICFRE and local organizations in Van Vignan Kendra. A stall was raised by M.S. Swaminathan Research Foundation (MSSRF) with exhibits of local varieties of various cereal crops and other edibles which was opened by Shri L. K Das, Retired CCF, Odisha. This is followed by Lightening of lamp.



Later the guests were honored with bouquets and mementos. The inaugural session started with a welcome speech by Head, FRCCE, Dr. S. Chakrabarti, Scientist - G. He welcomed the dignitaries, trainees and media partners and provided an overview of the training schedule. He thanked Director, IFB, Hyderabad, Shri D. Jayaprasad IFS, and Dr. Ratnakar Jhawhari, IFS, Head, Extension Division, for initiating such training program in Odisha. He briefed about ICFRE' initiatives for VVK programme and AICRP projects for long term research in the upcoming year. Later he briefed about RET species and their importance along with Van Vignan Kendra roles and responsibilities towards conservation of RET species. Importance of mangroves and their conservation was also mentioned in the speech along with FRCCE's involvement in doing so.





An Introductory speech is given by Ms. Rinku Kumari, IFS DFO, Koraput, in which she mentioned that India is a mega diverse country occupying 9th place in the world out of 176 countries. She also mentioned that huge flora and fauna are present in Eastern Ghats which needs to be protected. She also said that Climate change, Pollution and Forestry parts should be more concentrated. She expressed that they expect much more support from FRCCE regarding the conservation techniques of RET species.

Few words were delivered by the special guest Shri L.K. Das, Retired CCF Koraput regarding RET species importance in relation to biodiversity. He also mentioned about the magnitude of flora and fauna of Chilka Ecosystem in Odisha. He spoke from his experience, in local Odiya language which was highly appreciated by the chief guest and foresters.



Later an Inaugural speech was delivered by the honorable Chief Guest Shri Akshay Pattanaik, IFS, CCF, T&D Odisha. He expressed his happiness to see ICFRE team in Koraput and conducting such training program by IFB and FRCCE research members. He also mentioned that Odisha is lacking in Timber species due to climatic change. So to increase Carbon stock planting of timber species like teak, Acacia etc in Odisha is necessary. Diversity and sustainability of timber species should also be taken into consideration. He also highlighted the necessity of development of local nurseries. He

also briefed about the importance of root treating techniques, survival techniques and field adaptability concepts. Growing of endemic plant species, silvicultural techniques, Conservation of RET species and Development of new forestry app for identification of different stages of different plant species by Odisha forestry officials were all focused in his speech. The inaugural session ended with a group photograph and tea break.

Technical Session I

There were 2 deliberations of one hour each followed by discussion and question-answer session.



The first technical session started with the presentation of Shri E. Manikanta Reddy, Technician on “RET species of Odisha and their importance for Conservation”. The presentation aspects included statistical data of RET floral and faunal species of India and Odisha. It also included a special focus on few plant species in threatened list along with their conservation techniques. He described each important RET plant and animal species of Odisha with specific images and concern. At the end he talked about In- situ and Ex- situ techniques.

This presentation was followed by second presentation of the session by Dr. S. Chakrabarti Scientist-G on “Zero cost technique for enhancing germination percentage of difficult seeds of tree: A Case study”. The presentation included bird assemblage, association & dependency on *Bridelia retusa*. Also, association of birds with trees, bird biodiversity in different ecosystem, work done on bird mediated seed germination till now, avian frugivory, seed predation, seed dispersal through birds and seed physiology in avian gut were discussed in the presentation. He showed an easy and ‘0’ cost nursery

technique for bird mediated germination that can result 57% germination of some difficult trees. He opined that the technique can be used for other RET species. Following the presentations, a discussion was held by Shri Akshay Pattanaik CCF, T&D, Odisha with the trainees regarding the seed dispersal mechanism.



Technical Session II



After a lunch break the Technical Session-II started with the presentation of Smt. T. Anusha, Technician on “Forest cover of Odisha with special reference to Mangroves”. Mangrove cover in India and Odisha, Mangrove adaptations, Types of roots, Varieties of mangroves, Importance of mangroves and the need to conserve them were discussed in the presentation.

Dr. Karthik C. Lenka, a scientist from MSSRF, raised some questions on RET

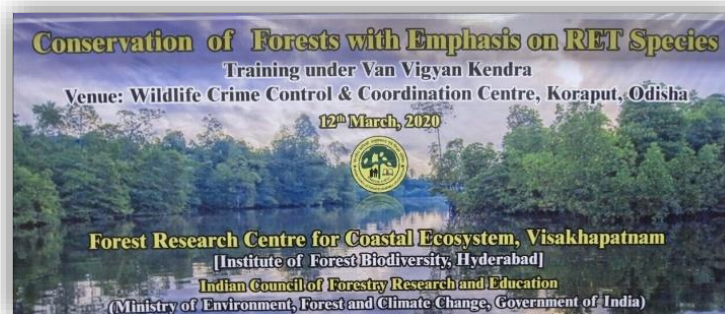
species of Odisha and shared his experience. The queries of him were answered and elaborated by Dr. S. Chakrabarti during his presentation, indicating the relevance of RET list in space & time, which is dynamic in nature. Following the discussion Shri Ajit Kumar Rout, Senior Liaison Officer of Coffee Board presented on “Scope of Coffee in Koraput



region”. Cultivation of coffee in Koraput region, economic importance of coffee and role of coffee plantations in biodiversity were few glimpses of his presentation. He showed how his plantation enhanced the bird diversity in 150 Hac. area, counting more than 150 species. Forest Deptt. also providing them with “Shade-Trees” for better growth of coffee plantation.

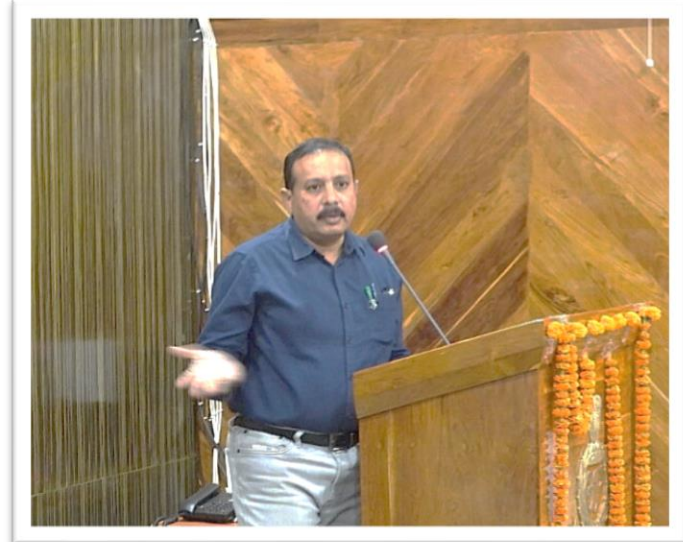


Next presentation was delivered by Dr. S. Chakrabarti, Scientist-G, Head of FRCCE on “Mangrove plant community of Odisha and its conservation”. Mangrove species in Odisha, socio-economic assessment of the plants necessary for conservation, “Riley’s Encased Methodology” and “Fish Bone Design” technique for mass propagation of mangroves, latest initiatives, enhancing climate resilience of India’s coastal communities were included in the presentation.



Valedictory Session

Participants were highly attentive throughout the training period and readily raised questions and sought clarifications. Some of the topics kindled their interest and were curious in knowing about the modern techniques of cultivation, conservation and raising techniques etc. During the feedback session the participants expressed the need of such trainings in future and they submitted the feedback forms duly filled in, issued by FRCCE.



They were of the opinion that such specific trainings would help in implementing field activities by scheduling actions for conservation. Certificates for the successful completion of training were distributed to all participants. The one-day training came to conclusion with vote of thanks by Smt T. Anusha, on behalf of FRCCE team as well as a vote of thanks on behalf of DFO, Koraput was delivered by Shri Mahesh, ACF, Koraput.



List of Participants

Sl.No.	Name of the Division.	Name of the Participants	Designation	Name of the Range/ Office.
1	Jeypore	Sri Subash Ch Khuntia	A.C.F	Division Office
2		Sri R.R. Swain	F.R.	Jeypore Range
3		Sri Gopinath Sahu	Dy. Ranger	Kotpad Range
4		Sri A.K. Harichandan	Forester	Division Office
5		Sri Kartikeswar Khandei	Forester	Division Office
6		Sri Bandhu Khillo	Forester	Division Office
7		Smt. Sukhetra Pradhan	Forester	Division Office
8		Sri Narsingh Padhi	Forester	Borigumma Range
9		Miss. Nirupama Saha	Forester	Jeypore Range
1	Koraput	Sri A. Uma Mahesh, OFS- I (JB)	A.C.F (Enforcement & Crime Control)	Koraput Division
2		Sri Chandrasena Pujari	Range Officer	Semiliguda Range
3		Sri Ananda Kirsani	Dy. Ranger I/c Balda Range.	Balda Range
4		Sri Gopinath pangi	Forester	Semiliguda Range
5		Sri Simadri Sahu	Forester	Lamtapat Range
6		Sri Pradeep Kumar Acharya	Forester	Koraput Range
7		Smt. Swarnaanjali Kanhar	Forester (Con.)	Balda Range

Sl.No.	Name of the Division.	Name of the Participants	Designation	Name of the Range/ Office.
8	Koraput	Smt. Bhagyapriya Sethy	Forester (Con.)	Laxmipur Range
9		Sri Rashmi Prasad Biswal	Forester	Narayanpatna Range
1	Malkangiri	Sri Bibhuti Bhusan Behera	A.C.F (Enf.)	Division Office
2		Sri Susanta Kumar Dalai	Forest Ranger	Balimela Range
3		Sri Ramesh Chandra Rout	Dy. Ranger	
4		Sri Dibakar Jena	Forester	
5		Sri Sibananda Lenka	Forester	
6		Sri Niranjan Sahu	Forester	
7		Sri Bidyut Biswas	Forester	
8		Sri Sibjeet Mandal	Forester	
9		Sri Sadasiv Chinara	Forester	
1	Nabarangpur	Sri Salvinder Singh, OFS-Gr.A (JB)	A.C.F	Division Office
2		Sri Manoj Kumar Patra	Forest Ranger	
3		Sri Laxmi Prasad Bisoi	Dy. Ranger	
4		Sri Ashit Kumar Sahu	Forester	
5		Sri Laxmi Kanta Sahu	Forester	
6		Sri Dambarudhar Gadaba	Forester	
7		Sri Sanjay Kumar Jayasingh	Forester	
8		Sri Harelal Nial	Forester	
9		Sri Mukti Bhatra	Forester	
1	Rayagada	Sri N.N. Nayak, OFS-I (JB)	A.C.F	Division Office
2		Sri Ranjan Kumar Mohanty	Forest Ranger	
3		Sri S.K. Prusty	Forest Ranger	
4		Sri Chandra Sekhar Sahu	Forester	
5		Sri N.K. Gomango	Forester	
6		Sri Manas Kumar Pradhan	Forester	
7		Sri Ranjit Sriram	Forester	
8		Sri K. Jaya Raju	Forester	
9		Sri Dinabandhu Sabar	Forester	

Glimpses of other activities/stalls during the programme

