

## **Proceeding of one day Institute level seminar at TFRI,Jabalpur**

As per the directives of ICFRE, 4<sup>th</sup> monthly seminar at the institute level was organized at TFRI,Jabalpur on 15.02.2018 on "**Environmental and economical function of Agroforestry**" under the major theme "Social forestry, Agro forestry/Farm forestry". The topic was elaborately presented by Dr. Nanita Berry, Scientist- E and Head Agroforestry Division. The seminar was conducted under the Chairmanship of Shri Chaturbhuj Behra, IFS, Director, TFRI. All HODs, Scientists, ACTOs, TOs and research scholars were present.

Dr. Nanita Berry, made a detailed power-point presentation on "**Environmental and economical function of Agroforestry**". She has covered various aspects including origin, objectives and characteristics of agroforestry, SWOT analysis of agroforestry systems, environmental and economical functions of agroforestry. Area under agroforestry at national as well as state level, criteria for the selection of tree and crop for agroforestry, agroforestry models adopted by the farmers in central India (M.P., Chhattisgarh and Maharashtra) were also discussed. She has also discussed about different agroforestry models developed, by different institutes of ICFRE and ICAR for different agroclimatic zone.

She has also informed the house that TFRI participated in national and state level agroforestry meet held on 22<sup>nd</sup> January, 2018 at New Delhi and on 30<sup>th</sup> January, 2018, Bhopal (M.P.) respectively to discuss and develop short term, mid-term and long term policies for agroforestry policies so as to meet the demands of different stakeholders. She expressed her views on the networking research options on agroforestry as well as collaboration amongst ICFRE institutes. During the course of discussion following queries were raised and replied by the presenter.

- Dr. Yogeshwar Mishra, Scientist- F & Head of Extension and Silviculture Division asked about the status to adopt quality planting material in agroforestry which was the main focus of QPM workshop held on 15<sup>th</sup> January, 2015 at RSKVV, Gwalior. Dr. Berry informed that certification of QPM for timber species has been initiated after this workshop. He also queried about the species of bamboo, suitable for the bamboo based agroforestry model developed by her. Dr. Berry informed that two bamboo species viz.

*Dendrocalamus strictus* and *Bambusa nutans* (raised through tissue culture) were tried for the study and *B. nutans* performed better as compared to *D. strictus* under the system.

- Dr. Avinash Jain, Scientist-F& Head, Ecology Division informed to the house that agroforestry discipline become an important issue and included in the bamboo mission, now it is called National Agroforestry and Bamboo Mission (NABM). Dr. Berry informed that she was invited by the Joint secretary (NRM, Horticulture) Dr. Alka Bhargava, IFS to showcase her achievements on agroforestry. She has also given e-consultancy by giving her inputs on various issues enlisted in the form on 13<sup>th</sup> February, 2018 which will be discussed during agroforestry conference to be held during 18<sup>th</sup>-19<sup>th</sup> February, 2018 at New Delhi.
- Shri Chaturbhuj Bahera, Director of the Institute asked her about suitability of various agroforestry models for different land conditions and availability of marketing facility for forestry crop raised under Agroforestry system. As farmers, those are having fertile land and harvesting bumper crop not willing to take up agroforestry. Dr. Berry informed that losses to standing crop due to climate change can be compensated through suitable agroforestry practices. Queries about the allelopathy of the different species on companion crop were also explained nicely by Dr. Berry.

**Future needs and Road map of research:** There is a need of future research on

- Development of need based, site specific, agro-climatic zone wise Agroforestry models.
- Promotion of short rotation tree species based agroforestry system.
- Crop diversification for income generation through tomato- forestry- Lac based / seri culture / Aqua culture/ Api culture based agroforestry models.
- Screening and multiplication of quality planting material
- Carbon sequestration potentials of different agroforestry systems.

## **Recommendation**

- Network /collaborative research project formulation within ICFRE institutes and other organizationslike ICAR.
- Tri-party agreement between Industry, Banks and Farmers will be needed for the promotion of agroforestry.
- More awareness programmes are needed for capacity building of farmers.

At the end of seminar, Chairman ShriChaturbhujBehra, thanks and congratulate to Dr. Berry for her excellent presentation. He suggested to develop standardized marketing strategy for the agroforestry produces at district as well as state level. Dr. S. N. Mishra, Scientist-B, Extension Division coordinated the Seminar.