

Short Course on

Recent Developments in Agroforestry Dimensions for Managing Salt Affected Ecologies

22nd February to 3rd March, 2022



Organized by

ICAR-Central Soil Salinity Research Institute,
Karnal, Haryana-132 001

Sponsored by

Indian Council of Agricultural Research, New
Delhi-110 012

(Ministry of Agriculture & Farmers' Welfare, Govt. of
India)

Background

Agroforestry is an efficient land management option to enhance soil quality and to conserve water resources besides productivity as revealed from the research studies that physico-chemical and biological properties were significantly improved with agroforestry practices than sole farming in degraded ecologies like salt affected landscapes. Agroforestry is now recognized as a tool for mitigating climate change due to inbuilt resilience and benefitting the economically weaker sections of the society from emerging carbon markets. Soil salinity is an insidious abiotic stress regulating crop production in more than 100 countries of the world. In India, the total degraded land under

salinity and sodicity is 6.74 m ha and is likely to increase to 16.2 m ha by 2050. With incessant new challenges of climate change and land use anomalies, soil salinity related stresses can be more pronounced for affecting crop production in future. For addressing these problems, the one viable option with no negative impacts and working on the principle of 'pay-as-you-go' is use of plant (forestry/ agroforestry) resource for reclamation and production from salt affected lands. It's true that plants (halophytes) withstand salinity (abiotic) stress well but give low biometric yield and quality which do not ensure the acceptable economic returns in the era of competitiveness and higher productivity. Therefore, the short course is designed to equip the participants with the advance developments in agroforestry in salt affected landscapes to have the technical know-how of the all spheres of introduction of highly valuable trees (MPTs) with salt tolerant companion crops for higher productivity and reclamation potential.

About the short course

The short course aims to give new and innovative technical know-how to the researchers/ technocrats and to provide the platform for building collaborations in the field of agroforestry research and development for managing marginal landscapes in general and salt affected in particular.



Potential agroforestry landuse options for SAS

The short course will cover three modules, as:

- Diagnosis and characterization of saline, sodic and waterlogged soils for agroforestry interventions
- Recent advancement in technological backups and policy initiatives for harnessing the productivity from salt affected landscapes through agroforestry approaches
- Synopsis of climatic resilient and highly productive agroforestry models in convergence with salt affected ecologies

Eligibility Criteria

Active researchers/ teachers not below the rank of Assistant Professor or equivalent from SAUs/CUs/DUs/ICAR/National Institutes/KVKs, having minimum two years of experience, in the disciplines of forestry/horticulture/agriculture/allied disciplines are eligible to apply.

Registration

There is no course fee, however a **non-refundable registration** fee of Rs. 50/- (Rs. fifty, only) is to be paid either by way of Postal Order or Demand Draft in favour of ICAR-CSSRI unit payable at Karnal. The short course is completely residential.

Participants' selection

The total intake for the course is 25 participants. The selection of the candidates will be made by a Screening Committee as per the available guidelines of the ICAR and the preference will be given to the candidate working in agroforestry research and development. Participant's nomination from the respective heads of organizations does not mean confirmed participation but is a matter of discretion of the Competent Authority of ICAR-CSSRI.

About the institute and Venue

ICAR-Central Soil Salinity Research Institute, Karnal, Haryana is mandated to develop technologies for reclamation and management of salt affected landscapes and poor quality water to have easeness in the lives' of people inhabiting such areas. With impeccable credential in technological knowledge generation, the institute has grown into

an internationally recognized ‘**Centre of Excellence**’ in soil and water salinity research and development.

Karnal, a pre-historical epic city in state of Haryana, is located 132 km north of Delhi on National Highway No. 1 (Grant Trunk Road). The city is believed to have been founded by King Karna ‘the all-time great donator’.

Karnal is well connected by rail and road from all parts of the country. The nearest airports are Delhi and Chandigarh.

Weather

The maximum and minimum temperature is generally range between 20-22°C and 08-15°C at Karnal during the last week of February to first week of March. Cotton clothing is suitable but light warm clothing may be required during night and occasionally in case of drop in temperature due to rain.

Boarding and Lodging

Participants will be provided rent-free accommodation in the Scientist hostel and International Scientist hostel at ICAR-CSSRI, Karnal with wholesome meals and refreshments. However, local participants will be provided lunch and inter-sessions tea, only.

How to Apply

Nomination for the short course should be sent online through CBP portal site (<http://cbp.icar.gov.in/>). The hard copy of successfully submitted online application along with a postal order/DD of Rs. 50/- (Non-refundable) after approval of the competent authority of the participant may be sent to the **Course Director** so as to reach by or before **10th February, 2022**. A formal confirmation letter indicating the selection of candidates will be sent by **12th February 2022** by e-mail. Participants are advised to depart to Karnal only after the receipt of participation confirmation letter from the **Course Director**. In case of any difficulty in applying online using CBP portal, the participants may send the duly filled-in application form (*format*

attached) through proper channel to the **Course Director**.

TA/DA

Participants will be paid to and fro fare for the journey performed by the shortest route by rail or bus or other means of transport. Payment will be made as per their entitlement but restricted to the maximum of AC-II tier train fare. If any participant chooses to travel by Air, he/she may do so, but their claim shall be restricted to AC-II tier train fare, provided they travel by Air India.

PATRON

Dr PC Sharma, Director

ICAR-Central Soil Salinity Research Institute,
Karnal, Haryana

COURSE DIRECTOR

Dr R Banyal, Principal Scientist

Division of Soil and Crop Management
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COURSE COORDINATOR(S)

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For details please contact to

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Short Course on ‘Recent Developments in Agroforestry Dimensions for Managing Salt Affected Ecologies’

Application Form

Name	:	
Designation	:	
Present employer with full address	:	
Address for communication	:	
Tel.(R):	Off.:	
Mobile:	Email:	
Date of birth	:	
Sex	:	
Teaching, research, professional experience (<i>mention the post held during last five years and no. of publications</i>)	:	
Field of specialization and current area of research/teaching	:	

Academic record

Degree with specialization	Year of passing	Institute /University	Div.
B.Sc.			
M.Sc.			
Ph.D.			

Details of the training attended during last three years

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IPOs/DD _____ dt.: _____ of Rs. 50/- in favour of ICAR-CSSRI Unit, payable at Karnal, Haryana towards registration fee.

Signature of the applicant with date and place

Recommendation of the forwarding authority

Certificate

Certified that the information furnished by the applicant is found to be correct

Signature and designation of the sponsoring authority