

KAVITA SAHU BALRAM SAHU

Mandate of the Soil Science division of SFRTI, Raipur

- Conduct studies on soil fertility, nutrient management and fertilization techniques to optimize nutrient use in forest.
- Study on soil profile and soil modeling display with basic features of soil at various regions of Chhattisgarh and India.
- Investigate soil health, nutrient cycling, soil biology, the impact of soil management practices and documentation of traditional knowledge for natural resource management.
- Studied on the impact of various soil, water conservation measures on the establishment and growth of natural & artificial regeneration.
- Soil vegetation interrelationship for heath improvement stability and productivity of ecosystem, its Implement strategies for improving soil health use recycling of wastes management.

- Up gradation of soil science lab to addition of water analysis lab and establish microbiology lab associated with tissue culture lab with advance instruments with modern technology. Promote the activity of biofertilizer, mushroom and mycorrhizal production.
- Development of biofertilizer and standardization of their application in relation to productivity, mass production and application of suitable host specific biofertilizers in forestry species.
- Provide education and training programs for farmers, land managers, and the public about soil science, conservation practices, and sustainable land use.
- Collaborate with government agencies, NGOs, and international organizations to develop soil policies and regulations.

Review/ reference/ previous work done at different institute

Institute Name	Work	Prominent Scientists	SFRTI, Raipur
ICFRE, Ranchi	Preparation of forest soil Health Cards under different forest vegetation in all the Forest division of India		 Develop the method of soil heath status / soil profiling of different region of Chhattisgarh and India. Prepare methodology for soil moisture conservation techniques.
SFRI, Jabalpur	चिलत मृदा परीक्षण प्रयोगशाला के माध्यम से मध्य प्रदेश के अनुसंधान एवं विस्तार केंद्र में मृदा परीक्षण कर मृदा में उपस्थित पोषक तत्त्वो की जानकारी प्रदान करना।	Dr. Pratiksha Chaturvedi	
	Training on concept of soil moisture conservation and its importance in forestry.		
ICFRE, Ranchi	Development of low cost technique of enriched vermicompost for commercial production.		• Adopt different technology of composting practices.

Review/ reference/ previous work done at different institute

Institute Name	Work	Prominent Scientists	SFRTI, Raipur
ICFRE,	Development of biofrtlizer and	Dr. S. Nath	• Isolation, multiplication,
Ranchi	standardization of their application in		production and distribution of biofertilizer, mycorrhizal
	relation to productivity of forest tree secrecies under degraded lateritic soil		product.
	condition		Standardization of tree
	Development of biofertilizer in relation to		specific biofertilizer
	productivity of important tree species.		(Nitrogen fixation,
IFGTB,	Identification, mass production and		phosphorus and potassium solubilizer and mobilizer
Coimbatore	application of suitable host specific		microorganisms).
	biofertilizers in forestry species.		microorganisms).
	Isolation, identification and mass production		Documentation of
	of Mycorrhizal fungi (ecto and endo)'.		mushroom, microfungi, lichens, fern and
JNTBGRI,	Survey and document mushrooms,		lycopeptide present in forest
Thiruvanant	microfungi, lichens, ferns and lycophytes in		area in Chhattisgah.
hapuram	Kerala's Western Ghats.		

Review/ reference/ previous work done at different institute

Institute Name	Work	Prominent Scientists	SFRTI, Raipur
SFRI, Jabalpur	Use of excavated soil for enhancing natural regeneration and plantation activities of Greenko Energy pvt. Ltd. Rampura forest range neemuch		• Collaboration of SFRTI to different relevant govt. institute, training center, agencies, private farm etc.
	district of M.P.		

Some Training Programme

- ➤ Institute **prepare yearly training calendar** and published. (ICFRE, Ranchi)
- > Training on **analysis of soil** sample. (SFRI, Jabalpur and ICFRE, Ranchi).
- Training and concept of soil moisture conservation and its importance in forestry.
 (SFRI, Jabalpur)
- > Training for **Isolation**, **identification**, **multiplication** and **application of biofertilizers** (Institute of Forest Genetics and Tree Breeding **IFGTB**, Coimbatore).
- > Training on **mushroom production** (Institute of Forest Genetics and Tree Breeding **IFGTB,** Coimbatore).
- **Vermi Compost** Production technology & its Application (ICFRE, Ranchi).
- Training be Require to aware indigenous technology of soil health recovery practices.