

List of Ongoing Projects

S. No.	Title of the Project	Principal Investigator	Duration of the Project	Funding Agency	Project Status	Project objectives	Research findings
1	Performance of AFRI clones of <i>Dalbergiasissoo</i> Roxb. ex DC. under Agroforestry model in IGNP command area in Western Rajasthan	Deepak Kumar, Scientist-B	2023-2028 (Five Years)	ICFRE-Plan gv	Ongoing	Short term objective To study growth performance of AFRI developed <i>Dalbergiasissoo</i> clones. To study the effect of different clone on crop production. To estimate the economics of different clones under Agroforestry model. To study the effect of different clone on soil fertility. Long term objective To develop suitable clone based Agroforestry model for enhancing overall productivity, soil fertility, farm income and green cover.	Plants were planted in a Randomized Block Design (RBD) under a block plantation system with three replications, using a spacing of 16 m × 6 m. Four treatments were applied: T1 – AFRI-DS1, T2 – AFRI-DS2, T3 – AFRI-DS4, and T4 – Control (Sissoo seedlings). The plantation, covering an area of 1.2 hectares. The survival rate for Clone treatments was recorded at 100%. Observations were taken on a quarterly basis. Among all

							treatments, AFRI-DS1 recorded the highest mean plant height and collar diameter,. This was followed by AFRI-DS2, AFRI-DS4 and the <i>Dalbergiasisso</i> o Control. These results indicate the superior growth performance of AFRI-DS1 in comparison to other treatments and the control. Crop yields were evaluated under the Agri-Silvi Agroforestry model for Isabgol in 2023, Chana in 2024, and Moth in 2025.
2	Comparative study of Saponin Profiles in <i>Sapindusemargina tus</i> and <i>Balanitesaegyptiac a</i> for Value Addition in	Sourav Bag	2024-2027	ICFRE	Ongoing	Long term objectives: To explore the valuable applications for saponin-rich compounds from <i>Sapindusemarginat us</i> and <i>Balanitesaegyptiac</i>	Preliminary phytochemical evaluation of <i>Balanitesaegyptiac a</i> collected from Rajasthan and Gujarat revealed

	Rajasthan and Gujarat.					<i>a</i> in Rajasthan and Gujarat. Short term objectives: To conduct a comprehensive phytochemical screening of saponins extracted from <i>Sapindusemarginatus</i> and <i>Balanitesaegyptiaca</i>. To process and develop value-added products from <i>Sapindusemarginatus</i> and <i>Balanitesaegyptiaca</i> enhance their utility and commercial potential.	considerable variation in saponin-related characteristics. Foaming index values ranged from 300 to 1000, with a few accessions recording values above 1000, indicating high natural surfactant potential. Total Phenolic Content (TPC) varied from 6.19 to 10.57 mg GAE/g extract, while Total Flavonoid Content (TFC) ranged from 0.85 to 1.52 mg QE/g extract, demonstrating significant variation in antioxidant constituents among the collected germplasm. HPLC analysis further confirmed appreciable saponin content in selected populations. The study has identified promising germplasm for advanced phytochemical profiling and supports the development of value-added
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3	Seed invigoration through nano-formulations in important forest tree species.	DrVishwanath Sharma Scientist-C	2023-2027	ICFRE-Plan	Ongoing	1. Synthesis, development and characterization of nano-formulations. 2. Evaluation of nano-formulation variants for seed quality enhancement potential in forestry seeds using nanoprimering under lab condition. 3. Elucidation of mechanisms of seed invigoration in nano-primed seeds. 4. Evaluation of seedling establishment and growth performance of nanoprimered seeds under nursery.	Synthesis and Characterization of iron-zinc oxide nanocomposites and Nano Phosphorus completed.