



Technical Bulletin  
CAFRI/2025/01

# Agroforestry Tree Genetic Resources @ CAFRI

K Rajarajan • A Arunachalam • AK Handa



**ICAR-Central Agroforestry Research Institute**

Jhansi 284003, Uttar Pradesh



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## Foreword



The world is facing unprecedented challenges, from climate change and environmental degradation to food security and socio-economic disparities. In this context, agroforestry has emerged as a powerful solution that integrates trees into agricultural landscapes, offering a pathway toward sustainable land use, enhanced biodiversity, and improved livelihoods. At the heart of this dynamic system are agroforestry tree genetic resources (ATGR)—the foundation of ecological resilience and agricultural productivity. However, these resources are under constant threat from deforestation, habitat loss, climate change, and unsustainable harvesting practices. The protection, conservation, and sustainable use of agroforestry tree genetic resources are paramount for future generations to benefit from their ecological, economic, and social advantages. It is therefore vital to build a collaborative framework that unites policymakers, researchers, communities, and industry stakeholders to prioritize the management and sustainable utilization of these resources. This document aims to highlight the importance of agroforestry tree genetic resources, their role in sustainable development, and the imperative need for their conservation and strategic use. It is our collective responsibility to ensure that these vital resources continue to enrich ecosystems and support communities around the world. Let us recognize the immense potential and value of agroforestry tree genetic resources and take decisive action to protect and nurture them for a sustainable and equitable future.

**(S.K. Chaudhari)**

Deputy Director General (NRM)  
Indian Council of Agricultural Research  
New Delhi





## Preface

Agroforestry tree genetic resources are far more than just the genetic building blocks of trees. They represent an invaluable source of traits that contribute to resilience, adaptation, and productivity. These traits include drought and disease resistance, rapid growth, high-quality timber, nutritious fruit, and more. The genetic diversity within ATGR is vital for ensuring that agroforestry systems can adapt to the ever-changing challenges posed by climate change, shifting agricultural needs, and the pressures of global food security. However, these resources are under threat from factors such as habitat loss, deforestation, climate change, and unsustainable management practices. The loss of genetic diversity within tree populations can significantly undermine the ecological and economic benefits that agroforestry provides. As such, it is crucial to recognize and address the need for comprehensive management, conservation, and sustainable use of these resources to safeguard the long-term health of agroforestry systems and the livelihoods of millions who depend on them. This publication aims to illuminate the importance of agroforestry tree genetic resources, exploring their role in ecosystem resilience, agricultural productivity, and community wellbeing. It also underscores the critical need for conservation efforts that not only protect these resources but actively promote their sustainable utilization. Through a synthesis of research, case studies, and best practices, we hope to inspire action and collaboration among stakeholders at all levels - from local farmers and indigenous communities to policymakers and international organizations.

We invite you to explore the insights shared in these pages, deepen your understanding of the value of agroforestry tree genetic resources, and join in the collective effort to preserve and utilize them sustainably. Let this document serve as a reminder of the immense potential these resources hold for ensuring a sustainable, resilient, and equitable future for all.

**- Authors**







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## About ICAR-Central Agroforestry Research Institute

ICAR-Central Agroforestry Research Institute (ICAR-CAFRI), formerly the National Research Centre for Agroforestry, is a multidisciplinary premier research institute of the Indian Council of Agricultural Research (ICAR) with a major focus on integrating trees, crops and livestock on the same farmland. The Institute is in Jhansi, Uttar Pradesh (25.5° N 78.5° E), India and has a total area of 254.859 acre. CAFRI is the only dedicated research institute of the country working on key research areas of agroforestry and has developed robust agroforestry models and package of practices for different agroclimatic conditions covering small and marginal farmers and provides technical backstopping to the States and stakeholders. In the year 2023, the Institute has been notified as the National Nodal Agency for Agroforestry with mandated activities of setting standards for quality planting material, nursery accreditation, seedling certification, capacity building of stakeholders, technical backstopping of State departments for implementation of agroforestry programs and projects.

### *History*

ICAR initiated a network project for organized research in 1983 i.e., All India Coordinated Research Project on Agroforestry. After successful 5 years, the Council institutionalized the Project as a National Research Centre for Agroforestry (NRCAF) on the 8<sup>th</sup> May 1988. The Institute is now renamed as Central Agroforestry Research Institute (CAFRI).

### *Vision*

To improve the quality of life of rural people by integrating perennial crops in agricultural landscape for harnessing social, economic and environmental benefits.

### *Mission*

Integration of woody perennials in the farming system to improve land productivity through conservation of soils, nutrients and biodiversity by augmenting natural resource conservation, restoration of ecological balance, alleviation of poverty and mitigating risks of weather vagaries.

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## Agroforestry Tree Genetic Resources (ARGR)

Agroforestry is a land use system that integrates woody-perennial (trees and shrubs) into crop and animal production systems. This approach enhances both productivity and environmental sustainability. Agroforestry tree genetic resources (ATGR) refer to the diverse genetic material found in tree species that are utilized in agroforestry systems. These resources are essential for maintaining and improving the productivity, resilience, and adaptability of these systems. Agroforestry tree genetic resources encompass the genes, traits, and diversity within tree species that contribute to ecological balance, soil fertility, crop productivity, and income generation for communities. This genetic diversity is critical for improving tree resilience to pests, diseases, climate variability, and other stressors. It also supports ecological functions like carbon sequestration, water cycle regulation, and biodiversity conservation. Agroforestry incorporates a wide range of tree types, which include, fruit and nut trees, timber and fuelwood trees, nitrogen-fixing trees, and multipurpose trees. Genetic diversity is key to sustaining agroforestry systems. In any population of trees, genetic variation can lead to different characteristics, such as resistance to diseases, faster growth rates, and better adaptation to different climates. Conservation of these genetic resources is critical for ensuring that future generations can benefit from their use. Strategies include, *In situ* conservation as preserving trees within their natural habitat or in managed agroforestry systems. *Ex situ* conservation as storing seeds, cuttings, or plant material in seed banks and nurseries for later use. Also, agroforestry trees play a pivotal role in mitigating climate change. They absorb carbon dioxide from the atmosphere, contribute to carbon storage in soils, and help maintain a balanced ecosystem. Genetic resources that are well-adapted to local conditions can increase the resilience of agroforestry systems to climate change impacts, such as droughts and temperature fluctuations. Research on agroforestry tree genetic resources focuses on; 1. Improving productivity through breeding programs that enhance desirable traits like disease resistance, drought tolerance, and high yield. 2. Selection of native species using local tree species that have co-evolved with their environments to ensure ecological compatibility and sustainability. 3. Clonal propagation as multiplying superior genetic material through cloning to maintain uniformity and desired traits. These agroforestry tree genetic resources face several challenges including, deforestation and land conversion, climate change, over harvesting, and pests and diseases. Therefore, the conservation strategies should integrate traditional knowledge and modern scientific approaches. Involving local communities in managing and preserving tree genetic

resources helps ensure that the resources are used sustainably and maintained for future generations. Certification schemes and agroforestry incentives can support the sustainable use of these resources. As a whole, agroforestry tree genetic resources are indispensable for the success of agroforestry systems. Their preservation and sustainable use help ensure food security, economic stability, and environmental health. Research and collaborative conservation efforts among scientists, policymakers, and local communities are essential for managing and maintaining these resources for current and future needs.

### What are tree genetic resources?

Tree genetic resources refer to the heritable material found in trees that can be passed from one generation to the next, including the genetic diversity within tree species and populations. This genetic material is essential for the growth, adaptation, and survival of trees in different environments. It encompasses the full range of variation within a species or among species, including traits like disease resistance, growth rate, wood quality, and adaptability to different climatic and soil conditions.

### Why tree genetic resources are important

#### 1. Biodiversity Conservation:

- **Ecological Balance:** Tree genetic resources are fundamental for maintaining biodiversity in forest ecosystems. They contribute to the stability of natural environments by supporting diverse plant and animal species.
- **Habitat Provision:** Trees with varied genetic traits create diverse habitats for wildlife, promoting a rich ecosystem.

#### 2. Climate Change Mitigation and Adaptation:

- **Carbon Sequestration:** Trees play a crucial role in absorbing carbon dioxide, a major greenhouse gas. Genetic diversity in tree species can enhance their ability to adapt to changing climates and continue to sequester carbon effectively.
- **Adaptability to Climate Variability:** Genetic resources that offer traits such as drought resistance, heat tolerance, and resilience to extreme weather help ecosystems and human communities adapt to climate change.

#### 3. Sustainable Timber and Non-Timber Products:

- **Economic Benefits:** Tree genetic resources ensure a steady supply of high-quality timber, which is used in construction and furniture production, contributing to economic stability.
- **Non-Timber Forest Products:** Trees also provide various products such as fruits, nuts, resins, medicinal compounds, and oils. The genetic diversity of tree species helps maintain the availability and quality of these products.

4. **Soil and Water Conservation:**

- **Soil Health:** Trees contribute to soil stabilization and fertility. Tree roots prevent soil erosion, reduce runoff, and help maintain soil structure, contributing to better land productivity.
- **Water Cycle Regulation:** Tree genetic resources help maintain the water cycle by influencing groundwater recharge and water storage. Certain tree species can effectively control watershed dynamics and improve water quality.

5. **Resilience to Pests and Diseases:**

- **Disease Resistance:** Genetic variation within tree species can include traits that make them more resistant to pests and diseases. This is important for preventing the spread of invasive species that can damage entire ecosystems and affect human livelihoods.
- **Diverse Resistance Mechanisms:** The greater the genetic diversity, the higher the likelihood of having trees that can survive new or emerging threats.

6. **Food Security and Nutrition:**

- **Edible Fruits and Nuts:** Trees provide essential food sources, contributing to food security. The genetic variation among fruit and nut trees ensures a diverse diet and helps combat malnutrition.
- **Nutrient-Rich Species:** Certain trees have high levels of vitamins and minerals (e.g., *Moringa*), providing nutritional benefits, particularly in regions with limited access to other food sources.

7. **Cultural and Social Significance:**

- **Cultural Heritage:** Many tree species have cultural or spiritual significance to indigenous and local communities. Protecting these genetic resources helps preserve traditional practices, knowledge, and cultural heritage.
- **Community Wellbeing:** Trees contribute to better living environments, shade, and recreational spaces, enhancing community health and quality of life.

8. **Potential for Future Use:**

- **Biotechnology and Breeding:** Tree genetic resources are a source of traits that can be harnessed through breeding and biotechnological advancements. This can lead to the development of trees that are more productive, better adapted to local climates, and more resistant to diseases.
- **Novel gene discovery:** Continued research into tree genetic resources may reveal novel compounds and genetic traits with potential uses in medicine, biochemistry, and industry.

## Tree genetic resource management and utilization

It involves strategies and practices aimed at conserving, maintaining, and leveraging the genetic diversity found in trees for sustainable use and development. Proper management and utilization ensure that tree genetic resources remain available and viable for future generations, providing ecological, economic, and social benefits.

### Management of Tree Genetic Resources

Tree genetic resource management focuses on maintaining and enhancing the diversity, health, and abundance of tree species and their genetic material. This management can be classified into several strategies:

#### a. Conservation Strategies

- **In Situ Conservation:** This involves conserving tree genetic resources within their natural habitats or in managed ecosystems like agroforestry and community forests. It helps maintain natural gene flow and ensures that trees adapt to local environmental conditions over generations.
- **Ex Situ Conservation:** This method stores tree genetic resources outside their natural habitat, such as in seed banks, nurseries, botanical gardens, and tissue culture laboratories. This provides a safety net for species at risk of extinction or those whose natural habitats are threatened.
- **Protected Areas and Reserves:** Establishing national parks, nature reserves, and protected forests where tree species can thrive without human interference.
- **Community Involvement:** Involving local communities in the conservation process ensures that the knowledge and traditions related to tree management are preserved and respected.

#### b. Sustainable Management Practices

- **Agroforestry and Silvopasture:** Integrating trees with crops and livestock helps maintain soil fertility, conserve water, and support biodiversity while providing food, fuel, and income for communities.
- **Sustainable Harvesting:** Implementing guidelines for the responsible collection of seeds, wood, and other tree products prevents overharvesting and ensures that tree populations remain healthy and viable.

#### c. Monitoring and Research

- **Genetic Mapping and Monitoring:** Regularly tracking the health, diversity, and distribution of tree species through genetic mapping and field surveys.
- **Climate Adaptation Studies:** Understanding how different tree species respond to changing climate conditions is essential for managing genetic resources that are resilient to such changes.

- **Genomic Research:** Advanced genetic techniques, including DNA sequencing, help identify beneficial traits within tree populations, such as drought tolerance, pest resistance, and fast growth rates.

### Utilization of Tree Genetic Resources

Utilization refers to the practical application of tree genetic resources to enhance productivity, restore ecosystems, and support community needs. Sustainable utilization involves balancing current use with future conservation.

#### a. Improved Tree Breeding and Propagation

- **Selective Breeding:** Selecting and breeding trees with desirable traits, such as disease resistance or higher yield, can create improved varieties that benefit farmers and industries.
- **Clonal Propagation:** Using techniques like grafting and tissue culture to propagate superior tree varieties with consistent genetic traits.
- **Hybridization:** Cross-breeding different tree species or varieties to combine beneficial traits from each, improving overall performance and resilience.

#### b. Value-Added Products

- **Timber and Wood Products:** Utilizing tree genetic resources to produce high-quality timber for construction, furniture, and other industries. Selecting specific genetic strains can yield wood that is more durable, lightweight, or aesthetically appealing.
- **Non-Timber Forest Products (NTFPs):** Trees provide various NTFPs like fruits, nuts, resins, oils, medicinal plants, and fibers. Sustainable harvesting and management ensure these resources contribute to food security and local economies.
- **Pharmaceuticals and Bioproducts:** Trees produce a wealth of bioactive compounds used in medicine and cosmetics. For instance, species like *Moringa* and *Neem* have a variety of health-related properties.
- **Ecological Services:** Trees are valuable for ecosystem services such as carbon sequestration, air and water purification, and habitat provision. Leveraging these services through carbon credits and eco-tourism provides economic incentives while promoting environmental sustainability.

#### c. Community and Socioeconomic Development

- **Agroforestry and Livelihoods:** Utilizing tree genetic resources within agroforestry systems helps diversify income sources, promote food security, and create employment opportunities in rural areas.



- **Cultural and Traditional Uses:** Many trees have cultural significance, providing traditional medicine, spiritual importance, and resources for cultural practices.
- **Education and Capacity Building:** Teaching communities about the benefits and sustainable management of tree genetic resources can improve local stewardship and enhance conservation efforts.

### Challenges in Tree Genetic Resource Management and Utilization

- **Climate Change:** Changes in climate can disrupt the natural range of tree species, affecting their genetic diversity and resilience.
- **Deforestation and Land Conversion:** The conversion of forests to agriculture or urban areas reduces natural habitats and limits the availability of tree genetic resources.
- **Overharvesting and Unsustainable Practices:** Unsustainable logging and collection of tree products can deplete populations and impact ecosystem health.
- **Pests and Diseases:** Emerging threats from pests and pathogens can significantly impact tree genetic diversity and productivity.
- **Limited Funding and Policy Support:** Adequate funding and effective policies are necessary for the successful management and conservation of tree genetic resources.

### Future Directions and Best Practices

- **Collaborative Approaches:** Collaboration between governments, NGOs, researchers, and local communities can support more effective management and utilization of tree genetic resources.
- **Integration of Modern Technology:** Using GIS mapping, remote sensing, and genetic engineering can improve monitoring, breeding, and conservation practices.
- **Policy and Legal Frameworks:** Strengthening legal frameworks for the protection and sustainable use of tree genetic resources, including enforcing sustainable land use and conservation laws.

3

## Gene Bank of ICAR-CAFRI, Jhansi

Name of the species: *Azadirachta indica*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No
1	<i>Azadirachta indica</i>	VKAF-1	Datia	566242
2	<i>Azadirachta indica</i>	VKAF-2	Dabra	566243
3	<i>Azadirachta indica</i>	VKAF-3	Morena	566244
4	<i>Azadirachta indica</i>	VKAF-4	Jhansi	566245
5	<i>Azadirachta indica</i>	VKAF-5	Moth	566246
6	<i>Azadirachta indica</i>	VKAF-6	Bhognipur	566247
7	<i>Azadirachta indica</i>	VKAF-7	Gauthampur	566248
8	<i>Azadirachta indica</i>	VKAF-8	Gulganj	566249
9	<i>Azadirachta indica</i>	VKAF-9	Tikkamgar	566250
10	<i>Azadirachta indica</i>	VKAF-10	Panna	566251
11	<i>Azadirachta indica</i>	VKAF-11	Satna	566252
11	<i>Azadirachta indica</i>	VKAF-12	Rewa	566253
12	<i>Azadirachta indica</i>	VKAF-13	Katani	566254
13	<i>Azadirachta indica</i>	VKAF-14	Jabalpur	566255
14	<i>Azadirachta indica</i>	VKAF-15	Damoh	566256
15	<i>Azadirachta indica</i>	VKAF-16	Sagar	566257
16	<i>Azadirachta indica</i>	VKAF-17	Kota	566258
17	<i>Azadirachta indica</i>	VKAF-18	Charkha	566259
18	<i>Azadirachta indica</i>	VKAF-19	Vidisha	566260
19	<i>Azadirachta indica</i>	VKAF-21	Boira	566262
20	<i>Azadirachta indica</i>	VKAF-22	Guna	566263
21	<i>Azadirachta indica</i>	VKAF-23	Shivpuri	566264
22	<i>Azadirachta indica</i>	VKAF-24	Rajgargh	566265
23	<i>Azadirachta indica</i>	VKAF-25	Hisar	566266
24	<i>Azadirachta indica</i>	VKAF-26	Datiya	566267
25	<i>Azadirachta indica</i>	VKAF-27	Gwalior	566268
26	<i>Azadirachta indica</i>	VKAF-28	Orai	566269
27	<i>Azadirachta indica</i>	VKAF-29	Orai	566270

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28	<i>Azadirachta indica</i>	VKAF-30	Chhatarpur	566270
29	<i>Azadirachta indica</i>	VKAF-31	Chhatarpur	566272
30	<i>Azadirachta indica</i>	VKAF-32	Chhatarpur	566273
31	<i>Azadirachta indica</i>	VKAF-33	Chhatarpur	566274
32	<i>Azadirachta indica</i>	VKAF-34	Tikkamgar	566275
33	<i>Azadirachta indica</i>	VKAF-35	Chhatarpur	566276
34	<i>Azadirachta indica</i>	VKAF-36	Satna	566277
35	<i>Azadirachta indica</i>	VKAF-37	Satana	566278
36	<i>Azadirachta indica</i>	VKAF-38	Jabalpur	566279
37	<i>Azadirachta indica</i>	VKAF-39	Jabalpur	566280
38	<i>Azadirachta indica</i>	VKAF-40	Sagar	566281
39	<i>Azadirachta indica</i>	VKAF-41	Boira	566282
40	<i>Azadirachta indica</i>	VKAF-43	Tonk	566284
41	<i>Azadirachta indica</i>	VKAF-44	Jhansi	566285
42	<i>Azadirachta indica</i>	VKAF-45	Jhansi	566286
43	<i>Azadirachta indica</i>	VKAF-46	Palampur	566287
44	<i>Azadirachta indica</i>	VKAF-47	Faizabad	566288
45	<i>Azadirachta indica</i>	VKAF-48	Hoshangabad	566289
46	<i>Azadirachta indica</i>	VKAF-49	Hoshangabad	566290
47	<i>Azadirachta indica</i>	VKAF-50	Chindwara	566291
48	<i>Azadirachta indica</i>	VKAF-51	Wardha	566292
49	<i>Azadirachta indica</i>	VKAF-52	Nizamabad	566293
50	<i>Azadirachta indica</i>	VKAF-53	Hyderabad	566294
51	<i>Azadirachta indica</i>	VKAF-54	Hyderabad	566295
52	<i>Azadirachta indica</i>	VKAF-55	Mehabonagar	566296
53	<i>Azadirachta indica</i>	VKAF-56	Kurnool	566297
54	<i>Azadirachta indica</i>	VKAF-57	Anandpur	566298
55	<i>Azadirachta indica</i>	VKAF-58	Prakasam	566299
56	<i>Azadirachta indica</i>	VKAF-59	Guntur	566300
57	<i>Azadirachta indica</i>	VKAF-60	Krishna	566301
58	<i>Azadirachta indica</i>	VKAF-61	Warangal	566302
59	<i>Azadirachta indica</i>	VKAF-62	Chhatarpur	566303
60	<i>Azadirachta indica</i>	VKAF-63	Nagpur	566304
61	<i>Azadirachta indica</i>	VKAF-64	Seoni	566305

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62	<i>Azadirachta indica</i>	VKAF-65	Akola	566306
63	<i>Azadirachta indica</i>	VKAF-66	Jalgaon	566307
64	<i>Azadirachta indica</i>	VKAF-67	Bhusawal	566308
65	<i>Azadirachta indica</i>	VKAF-68	Dhule	566309
66	<i>Azadirachta indica</i>	VKAF-69	Nasik	566310
67	<i>Azadirachta indica</i>	VKAF-70	Ahmednagar	566311
68	<i>Azadirachta indica</i>	VKAF-71	Jalna	566312
69	<i>Azadirachta indica</i>	VKAF-72	Parbhani	566313
70	<i>Azadirachta indica</i>	VKAF-73	Nanded	566314
71	<i>Azadirachta indica</i>	VKAF-74	Yavatamal	566315
72	<i>Azadirachta indica</i>	VKAF-75	Coimbtore	566316
73	<i>Azadirachta indica</i>	VKAF-76	Hisar	566317
74	<i>Azadirachta indica</i>	VKAF-77	Dharwad	566318
75	<i>Azadirachta indica</i>	VKAF-78	Adilabad	566319
76	<i>Azadirachta indica</i>	VKAF-79	W Godawari	566320
77	<i>Azadirachta indica</i>	VKAF-80	Karim Nagar	566321
78	<i>Azadirachta indica</i>	VKAF-81	Jodhpur	566322
79	<i>Azadirachta indica</i>	VKAF-82	Sagar	566323
80	<i>Azadirachta indica</i>	VKAF-83	Madak	566324
81	<i>Azadirachta indica</i>	VKAF-84	Satara	566325
82	<i>Azadirachta indica</i>	VKAF-85	Sangli	566326
83	<i>Azadirachta indica</i>	VKAF-86	Kohlapur	566327
84	<i>Azadirachta indica</i>	VKAF-87	Solapur	566328
85	<i>Azadirachta indica</i>	VKAF-88	Solapur	566329
86	<i>Azadirachta indica</i>	VKAF-89	Osmanabad	566330
87	<i>Azadirachta indica</i>	VKAF-90	Osmanabad	566331
88	<i>Azadirachta indica</i>	VKAF-91	Mandala	566332
89	<i>Azadirachta indica</i>	VKAF-92	Latur	566333
90	<i>Azadirachta indica</i>	VKAF-93	Ahmednagar	566334
91	<i>Azadirachta indica</i>	VKAF-94	Nanded	566335
92	<i>Azadirachta indica</i>	VKAF-95	Hingoli	566336
93	<i>Azadirachta indica</i>	VKAF-96	Pusad	566337
94	<i>Azadirachta indica</i>	VKAF-97	Indore	566338
95	<i>Azadirachta indica</i>	VKAF-98	Mandala	566339

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96	<i>Azadirachta indica</i>	VKAF-99	Balaghat	566340
97	<i>Azadirachta indica</i>	VKAF-100	Durg	566341
98	<i>Azadirachta indica</i>	VKAF-101	Rajnandgoan	566342
99	<i>Azadirachta indica</i>	VKAF-102	Koraput	566343
100	<i>Azadirachta indica</i>	VKAF-103	Vizagapatnam	566344
101	<i>Azadirachta indica</i>	VKAF-104	Vizagapatnam	566345
102	<i>Azadirachta indica</i>	VKAF-105	Srikakulam	566346
103	<i>Azadirachta indica</i>	VKAF-106	Srikakulam	566347
104	<i>Azadirachta indica</i>	VKAF-107	Ganjam	566348
105	<i>Azadirachta indica</i>	VKAF-108	Puri	566349
106	<i>Azadirachta indica</i>	VKAF-109	Puri	566350
107	<i>Azadirachta indica</i>	VKAF-110	Khordha	566351
108	<i>Azadirachta indica</i>	VKAF-111	Puri	566352
109	<i>Azadirachta indica</i>	VKAF-112	Cuttack	566353
110	<i>Azadirachta indica</i>	VKAF-113	Dhenkanal	566354
111	<i>Azadirachta indica</i>	VKAF-114	Bhadrak	566355
112	<i>Azadirachta indica</i>	VKAF-115	Baleshwar	566356
113	<i>Azadirachta indica</i>	VKAF-116	Kendujahargarh	566357
114	<i>Azadirachta indica</i>	VKAF-117	Angul	566358
115	<i>Azadirachta indica</i>	VKAF-118	Sambalpur	566359
116	<i>Azadirachta indica</i>	VKAF-119	Sambalpur	566360
117	<i>Azadirachta indica</i>	VKAF-120	Sonapur	566361
118	<i>Azadirachta indica</i>	VKAF-121	Balangir	566362
119	<i>Azadirachta indica</i>	VKAF-122	Nuparha	566363
120	<i>Azadirachta indica</i>	VKAF-123	Baleshwar	566364
121	<i>Azadirachta indica</i>	VKAF-124	Latur	566365
122	<i>Azadirachta indica</i>	VKAF-125	Chakur	566366
123	<i>Azadirachta indica</i>	VKAF-126	Nanded	566367
124	<i>Azadirachta indica</i>	VKAF-127	Nanded	566368
125	<i>Azadirachta indica</i>	VKAF-128	Hangoli	566369
126	<i>Azadirachta indica</i>	VKAF-129	Nanded	566370
127	<i>Azadirachta indica</i>	VKAF-130	Ganjam	566371
128	<i>Azadirachta indica</i>	VKAF-131	Puri	566372
129	<i>Azadirachta indica</i>	VKAF-132	Dhenkanal	566373

**Agroforestry Tree Genetic Resources @ CAFRI**

130	<i>Azadirachta indica</i>	VKAF-133	Baleshwar	566374
131	<i>Azadirachta indica</i>	VKAF-134	Mayurvhanja	566375
132	<i>Azadirachta indica</i>	VKAF-135	Mayurvhanja	566376
133	<i>Azadirachta indica</i>	VKAF-136	Mayurvhanja	566377
134	<i>Azadirachta indica</i>	VKAF-137	Mayurvhanja	566378
135	<i>Azadirachta indica</i>	VKAF-138	Mayurvhanja	566379
136	<i>Azadirachta indica</i>	VKAF-139	Keonjhar	566380
137	<i>Azadirachta indica</i>	VKAF-183	Rajgargh	-
138	<i>Azadirachta indica</i>	VKAF-184	Shajapur	-
139	<i>Azadirachta indica</i>	VKAF-185	Indore	-
140	<i>Azadirachta indica</i>	VKAF-186	Pune	-
141	<i>Azadirachta indica</i>	VKAF-187	Satara	-
142	<i>Azadirachta indica</i>	VKAF-188	Kholapur	-
143	<i>Azadirachta indica</i>	OR-01	Puri	-
144	<i>Azadirachta indica</i>	Sel-7	Chhatarpur	-
145	<i>Azadirachta indica</i>	Sel-1	Moth	-
146	<i>Azadirachta indica</i>	Sel-2	Bhopal	-
147	<i>Azadirachta indica</i>	Sel-3	Jabalpur	-
148	<i>Azadirachta indica</i>	Sel-4	Jabalpur	-
149	<i>Azadirachta indica</i>	Sel-6	Mauranipur	-
150	<i>Azadirachta indica</i>	Sel-8	Kota	-
151	<i>Azadirachta indica</i>	RJ-1	Bilara	-
152	<i>Azadirachta indica</i>	UP-1	Kalpi	-
153	<i>Azadirachta indica</i>	UP-2	Jhansi	-
154	<i>Azadirachta indica</i>	UP-3	Jhansi	-
155	<i>Azadirachta indica</i>	GJ-1	Dantiwada	-
156	<i>Azadirachta indica</i>	MH-1	Aurangabad	-
157	<i>Azadirachta indica</i>	MH-2	Aurangabad	-
158	<i>Azadirachta indica</i>	MH-3	Bethwadagaon	-
159	<i>Azadirachta indica</i>	MH-4	Vathuvwada	-
160	<i>Azadirachta indica</i>	MH-5	Murur	-
161	<i>Azadirachta indica</i>	MH-6	Nandgoan	-
162	<i>Azadirachta indica</i>	MH-7	Algarwadi	-
163	<i>Azadirachta indica</i>	MH-8	Loha	-

**Agroforestry Tree Genetic Resources @ CAFRI**

164	<i>Azadirachta indica</i>	MH-9	Karegoan	-
165	<i>Azadirachta indica</i>	MH-10	Shirwal	-
166	<i>Azadirachta indica</i>	MH-11	Karad	-
167	<i>Azadirachta indica</i>	MP-1	Chhatarpur	-
168	<i>Azadirachta indica</i>	MP-2	Chhatarpur	-
169	<i>Azadirachta indica</i>	MP-3	Bhopal	-
170	<i>Azadirachta indica</i>	MP-4	Khargoan	-



Elite germplasm identified for high oil content  
VKAF-3 (Morena, Madhya Pradesh)

Source: ITMU, CAFRI, Jhansi



Elite germplasm identified for high oil content  
VKAF-9 (Tikkamgar, Madhya Pradesh)

Source: ITMU, CAFRI, Jhansi



Elite germplasm identified for high oil content  
VKAF-11 (Satna, Madhya Pradesh)  
Source: ITMU, CAFRI, Jhansi



Elite germplasm identified for high oil content  
VKAF-13 (Katni, Madhya Pradesh)  
Source: ITMU, CAFRI, Jhansi





Neem Field Gene Bank

Name of the species: *Dalbergia sissoo*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Dalbergia sissoo</i>	PT-1	Tikamgarh	584265
2	<i>Dalbergia sissoo</i>	PT-2	Jhansi	584318
3	<i>Dalbergia sissoo</i>	PT-3	Jhansi	584266
4	<i>Dalbergia sissoo</i>	PT-4	Jhansi	584267
5	<i>Dalbergia sissoo</i>	PT-5	Jhansi	584268
6	<i>Dalbergia sissoo</i>	PT-6	Jhansi	584269
7	<i>Dalbergia sissoo</i>	PT-7	Jhansi	584270
8	<i>Dalbergia sissoo</i>	PT-8	Jhansi	584271
9	<i>Dalbergia sissoo</i>	PT-9	Jhansi	584272
10	<i>Dalbergia sissoo</i>	PT-10	Jhansi	584273
11	<i>Dalbergia sissoo</i>	PT-11	Jhansi	584274
12	<i>Dalbergia sissoo</i>	PT-12	Jhansi	584275
13	<i>Dalbergia sissoo</i>	PT-13	Jhansi	584276
14	<i>Dalbergia sissoo</i>	PT-14	Jhansi	584277
15	<i>Dalbergia sissoo</i>	PT-15	Jhansi	584278
16	<i>Dalbergia sissoo</i>	PT-16	Jhansi	584279
17	<i>Dalbergia sissoo</i>	PT-17	Jhansi	584280
18	<i>Dalbergia sissoo</i>	PT-18	Jhansi	584281
19	<i>Dalbergia sissoo</i>	PT-19	Jhansi	584282
20	<i>Dalbergia sissoo</i>	PT-20	Jhansi	584283
21	<i>Dalbergia sissoo</i>	PT-21	Jhansi	584284
22	<i>Dalbergia sissoo</i>	PT-22	Jhansi	584285
23	<i>Dalbergia sissoo</i>	PT-23	Jhansi	584286
24	<i>Dalbergia sissoo</i>	PT-24	Jhansi	584287
25	<i>Dalbergia sissoo</i>	PT-25	Jhansi	584288
26	<i>Dalbergia sissoo</i>	PT-26	Jalaun	584289
27	<i>Dalbergia sissoo</i>	PT-27	Jalaun	584290
28	<i>Dalbergia sissoo</i>	PT-28	Jalaun	584291
29	<i>Dalbergia sissoo</i>	PT-29	Jalaun	584292
30	<i>Dalbergia sissoo</i>	PT-30	Jalaun	584293
31	<i>Dalbergia sissoo</i>	PT-31	Jalaun	584294

Agroforestry Tree Genetic Resources @ CAFRI

32	<i>Dalbergia sissoo</i>	PT-32	Jalaun	584295
33	<i>Dalbergia sissoo</i>	PT-33	Hamirpur	584296



Registered genetic stock of *Dalbergia sissoo* genotype PT-2 (INGR No: 10063) for straightness  
Source: NBPGR, New Delhi

**Name of the species: *Acacia nilota***

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Acacia nilota</i>	PT-1	Lalitpur	556942
2	<i>Acacia nilota</i>	PT-2	Sagar	556943
3	<i>Acacia nilota</i>	PT-3	Damoh	556944
4	<i>Acacia nilota</i>	PT-4	Damoh	556945
5	<i>Acacia nilota</i>	PT-5	Jabalpur	556946
6	<i>Acacia nilota</i>	PT-6	Mandla	556947
7	<i>Acacia nilota</i>	PT-7	Mandla	556948
8	<i>Acacia nilota</i>	PT-8	Nagpur	556949
9	<i>Acacia nilota</i>	PT-9	Wardha	556950
10	<i>Acacia nilota</i>	PT-10	Wardha	556951
11	<i>Acacia nilota</i>	PT-11	Akola	556952
12	<i>Acacia nilota</i>	PT-12	Buldhana	556953
13	<i>Acacia nilota</i>	PT-13	Khandwa	556954
14	<i>Acacia nilota</i>	PT-14	Indore	556955
15	<i>Acacia nilota</i>	PT-15	Indore	556956
16	<i>Acacia nilota</i>	PT-16	Shajapur	556957
17	<i>Acacia nilota</i>	PT-17	Bhopal	556958
18	<i>Acacia nilota</i>	PT-18	Bhopal	556959
19	<i>Acacia nilota</i>	PT-19	Sehore	556960
20	<i>Acacia nilota</i>	PT-20	Guna	556961
21	<i>Acacia nilota</i>	PT-21	Guna	556962
22	<i>Acacia nilota</i>	PT-22	Nasik	556963
23	<i>Acacia nilota</i>	PT-23	Gwalior	556964
24	<i>Acacia nilota</i>	PT-24	Morena	556965
25	<i>Acacia nilota</i>	PT-25	Morena	556966
26	<i>Acacia nilota</i>	PT-26	Dausa	556967



Field Gene bank of *Acacia nilotica* sub species indica at ICAR-CAFRI, Jhansi

**Name of the species: *Leucaena leucocephala***

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Leucaena leucocephala</i>	L.leu-S1	Jhansi	-
2	<i>Leucaena leucocephala</i>	L.leu-S2	Jhansi	-
3	<i>Leucaena leucocephala</i>	L.leu-S4	Jhansi	-
4	<i>Leucaena leucocephala</i>	L.leu-S6	Jhansi	-
5	<i>Leucaena leucocephala</i>	L.leu-S7	Jhansi	-
6	<i>Leucaena leucocephala</i>	L.leu-S10	Jhansi	-
7	<i>Leucaena leucocephala</i>	L.leu-S11	Jhansi	-
8	<i>Leucaena leucocephala</i>	L.leu-S12	Jhansi	-
9	<i>Leucaena leucocephala</i>	L.leu-S13	Jhansi	-
10	<i>Leucaena leucocephala</i>	L.leu-S14	Jhansi	-
11	<i>Leucaena leucocephala</i>	L.leu-S15	Jhansi	-
12	<i>Leucaena leucocephala</i>	L.leu-S18	Jhansi	-
13	<i>Leucaena leucocephala</i>	L.leu-S22	Jhansi	-
14	<i>Leucaena leucocephala</i>	L.leu-S23	Jhansi	-
15	<i>Leucaena leucocephala</i>	L.leu-S24	Jhansi	-
16	<i>Leucaena leucocephala</i>	L.leu-IGFRI123-1	Jhansi	-
17	<i>Leucaena leucocephala</i>	L.leu-IGFRI178	Jhansi	-
18	<i>Leucaena leucocephala</i>	L.leu-IGFRI196	Jhansi	-
19	<i>Leucaena leucocephala</i>	L.leu-Conn3	Jhansi	-
20	<i>Leucaena leucocephala</i>	L.leu-Silvi4	Jhansi	-
21	<i>Leucaena leucocephala</i>	L.leu-K29	Jhansi	-
22	<i>Leucaena leucocephala</i>	L.leu-K217	Jhansi	-
23	<i>Leucaena leucocephala</i>	L.leu-K340	Jhansi	-

Name of the species: *Pongamia pinnata*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Pongamia pinnata</i>	NRCP-06	Lalitpur	540003
2	<i>Pongamia pinnata</i>	NRCP-07	Lalitpur	540004
3	<i>Pongamia pinnata</i>	NRCP-09	Jhansi	540005
4	<i>Pongamia pinnata</i>	NRCP-10	Lalitpur	540006
5	<i>Pongamia pinnata</i>	NRCP-11	Lalitpur	540007
6	<i>Pongamia pinnata</i>	NRCP-12	Lalitpur	540008
7	<i>Pongamia pinnata</i>	NRCP-13	Lalitpur	540009
8	<i>Pongamia pinnata</i>	NRCP-14	Lalitpur	540010
9	<i>Pongamia pinnata</i>	NRCP-16	Dholpur	540011
10	<i>Pongamia pinnata</i>	NRCP-17	Gwalior	540012
11	<i>Pongamia pinnata</i>	NRCP-18	Gwalior	540013
12	<i>Pongamia pinnata</i>	NRCP-20	Jaipur	540014
13	<i>Pongamia pinnata</i>	NRCP-21	Bharatpur	540015
14	<i>Pongamia pinnata</i>	NRCP-22	Panipat	540016
15	<i>Pongamia pinnata</i>	NRCP-23	Dholpur	540017
16	<i>Pongamia pinnata</i>	NRCP-24	Jhansi	540018
17	<i>Pongamia pinnata</i>	NRCP-25	Jhansi	540019



*Pongamia pinnata* field gene bank at ICAR-CAFRI, Jhansi

Name of the species: *Moringa oleifera*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Moringa oleifera</i>	CAFRI-MO-001	Sagar	-
2	<i>Moringa oleifera</i>	CAFRI-MO-002	Jhansi	-
3	<i>Moringa oleifera</i>	CAFRI-MO-003	Banda	-
4	<i>Moringa oleifera</i>	CAFRI-MO-004	Banda	-
5	<i>Moringa oleifera</i>	CAFRI-MO-005	Mahoba	-
6	<i>Moringa oleifera</i>	CAFRI-MO-006	Jhansi	-
7	<i>Moringa oleifera</i>	CAFRI-MO-007	Jhansi	-
8	<i>Moringa oleifera</i>	CAFRI-MO-008	Chhatarpur	-
9	<i>Moringa oleifera</i>	CAFRI-MO-009	Sagar	-
10	<i>Moringa oleifera</i>	CAFRI-MO-010	Damoh	-
11	<i>Moringa oleifera</i>	CAFRI-MO-011	Jalaun	-
12	<i>Moringa oleifera</i>	CAFRI-MO-012	Chitrakoot	-
13	<i>Moringa oleifera</i>	CAFRI-MO-013	Banda	-
14	<i>Moringa oleifera</i>	CAFRI-MO-014	Jhansi	-
15	<i>Moringa oleifera</i>	CAFRI-MO-0015	Chitrakoot	-
16	<i>Moringa oleifera</i>	CAFRI-MO-016	Datia	-
17	<i>Moringa oleifera</i>	CAFRI-MO-017	Hamirpur	-
18	<i>Moringa oleifera</i>	CAFRI-MO-018	Hamirpur	-
19	<i>Moringa oleifera</i>	CAFRI-MO-019	Lalitpur	-
20	<i>Moringa oleifera</i>	CAFRI-MO-020	Tikamgarh	-
21	<i>Moringa oleifera</i>	CAFRI-MO-021	Panna	-
22	<i>Moringa oleifera</i>	CAFRI-MO-022	Panna	-
23	<i>Moringa oleifera</i>	CAFRI-MO-023	Chhatarpur	-
24	<i>Moringa oleifera</i>	CAFRI-MO-024	Chhatarpur	-
25	<i>Moringa oleifera</i>	CAFRI-MO-025	Chhatarpur	-
26	<i>Moringa oleifera</i>	CAFRI-MO-006	Niwari	-
27	<i>Moringa oleifera</i>	CAFRI-MO-027	Tikamgarh	-
28	<i>Moringa oleifera</i>	CAFRI-MO-028	Niwari	-
29	<i>Moringa oleifera</i>	CAFRI-MO-029	Datia	-
30	<i>Moringa oleifera</i>	CAFRI-MO-030	Tikamgarh	-





CMC-5



CMC-8



CMC-12

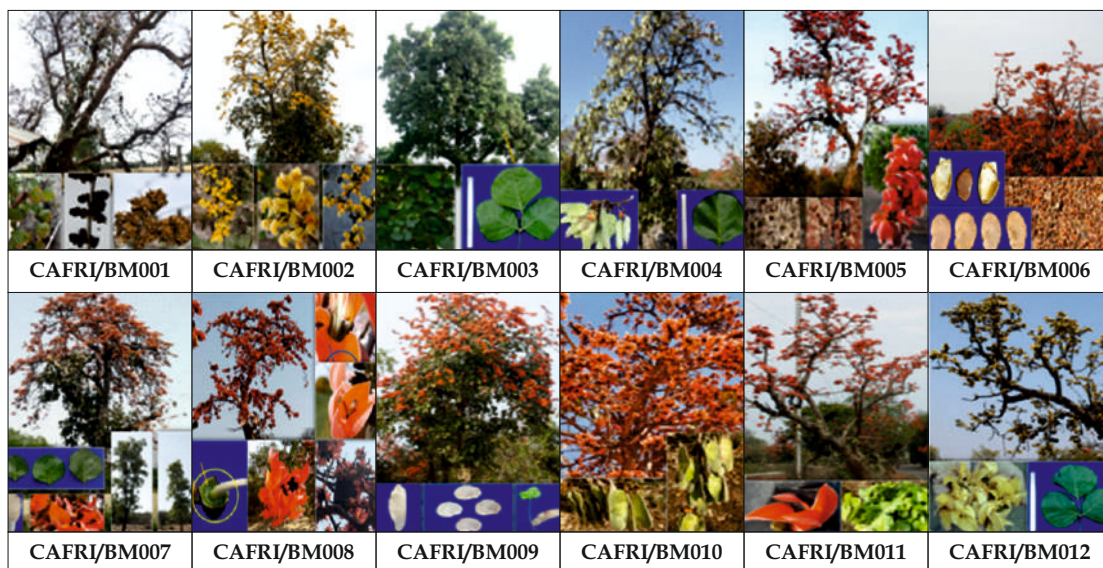
Year-around flowering behaviour of Moringa genotypes at ICAR-CAFRI, Jhansi



Moringa field gene bank at ICAR-CAFRI, Jhansi

Name of the species: *Butea monosperma*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Butea monosperma</i>	CAFRI-BM-001	Shivpuri	-
2	<i>Butea monosperma</i>	CAFRI-BM-002	Niwari	-
3	<i>Butea monosperma</i>	CAFRI-BM-003	Jhansi	-
4	<i>Butea monosperma</i>	CAFRI-BM-004	Niwari	-
5	<i>Butea monosperma</i>	CAFRI-BM-005	Tikamgarh	-
6	<i>Butea monosperma</i>	CAFRI-BM-006	Chhatarpur	-
7	<i>Butea monosperma</i>	CAFRI-BM-007	Lalitpur	-
8	<i>Butea monosperma</i>	CAFRI-BM-008	Chhatarpur	-
9	<i>Butea monosperma</i>	CAFRI-BM-009	Shivpuri	-
10	<i>Butea monosperma</i>	CAFRI-BM-010	Jhansi - Shivpuri	-
11	<i>Butea monosperma</i>	CAFRI-BM-011	Chhatarpur	-
12	<i>Butea monosperma</i>	CAFRI-BM-012	Sagar	-



Name of the species: *Alangium salvifolium*

S.No.	Name of the species	Germplasm No.	Place of collection	IC No.
1	<i>Alangium salvifolium</i>	CAFRI-A-1	Jhansi, UP	0638886



*Alangium salvifolium* (IC 0638886)  
Identified as semi-dwarf, cluster bearing, sweet in taste and high TSS  
Source: ITMU, CAFRI, Jhansi

**Name of the species:**

S.No.	Name of the species	Germplasm No.	Place of collection	IC No.
1	<i>Bombax ceiba</i>	CAFRI-BC-1	Jhansi, UP	-
	<i>Bombax ceiba</i>	CAFRI-BC-2	Jhansi, UP	-
2	<i>Parkinsonia aculeata</i>	CAFRI-PA-1	Jhansi, UP	-



*Parkinsonia aculeata*  
Identified for its unique branching pattern  
Source: ITMU, CAFRI, Jhansi

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## AICRP Agroforestry Centre, Jabalpur

Name of the species: *Dalbergia sisso*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	ICNo.
1	<i>Dalbergia sisso</i>	CPT1- College of Agriculture, Raipur	College of Agriculture, Raipur	-
2	<i>Dalbergia sisso</i>	CPT2- RAU, Samastipur (Bihar)	RAU Samastipur, Bihar	-
3	<i>Dalbergia sisso</i>	CPT3- College of Agriculture, Jabalpur	College of Agriculture, Jabalpur	-
4	<i>Dalbergia sisso</i>	CPT4 - College of Agriculture, Nagpur	College of Agriculture, Nagpur	-
5	<i>Dalbergia sisso</i>	CPT5- Faizabad	Faizabad	-
6	<i>Dalbergia sisso</i>	PT6 & PT2	CAFRI, Jhansi	-
7	<i>Dalbergia sisso</i>	CPTCG1 to CPTCG8 (Keregao, Dharamtari, (CG)	Keregao, Dharamtari, (CG)	-
8	<i>Dalbergia sisso</i>	CPTTM1 to CPTTM3 (Tamia, Chhindwara, (MP)	Tamia, Chhindwara, (MP)	-
9	<i>Dalbergia sisso</i>	CPTMD1 to CPTMD3 (Tikaria, Mandla, MP)	Tikaria, Mandla, (MP)	-
10	<i>Dalbergia sisso</i>	CPTMH1 to CPTMH5 (Chandrapur, Allapali, (MH)	Chandrapur, Allapali, (MH)	-
11	<i>Dalbergia sisso</i>	CPTJH1 to CPTJH3 (Ranchi, (Jharkhand)	Ranchi, (Jharkhand)	-
12	<i>Dalbergia sisso</i>	CPTBR1 to CPTBR2 (Bihar)	Bihar	-
13	<i>Dalbergia latifolia</i>	CPTJT1 to CPTJT5 (TFRI, Campus (MP)	TFRI, Campus (MP)	-
14	<i>Dalbergia sisso</i>	CPTWB1 to CPTWB3 (West Bengal)	West Bengal	-



Evaluation of Shisham (Provenance/progeny) in Central India

5

## AICRP Agroforestry Centre, Ayodhya

Name of the species: *Eucalyptus tereticornis*

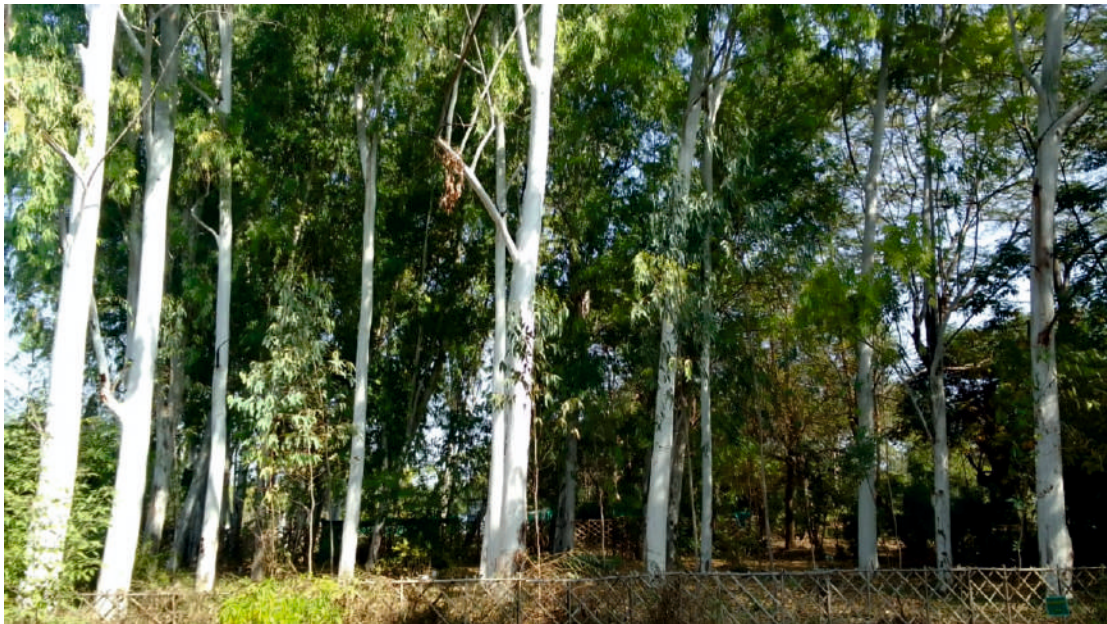
S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Eucalyptus tereticornis</i>	EU-316	ITC, Bhadrachalam Andhra Pradesh	-
2	<i>Eucalyptus tereticornis</i>	EU-2135	ITC, Bhadrachalam Andhra Pradesh	-
3	<i>Eucalyptus tereticornis</i>	EU-3135	ITC, Bhadrachalam Andhra Pradesh	-
4	<i>Eucalyptus tereticornis</i>	EU-416-A	ITC, Bhadrachalam Andhra Pradesh	-
5	<i>Eucalyptus tereticornis</i>	EU-416	ITC, Bhadrachalam Andhra Pradesh	-
6	<i>Eucalyptus tereticornis</i>	EU-3135 clone	ITC, Bhadrachalam Andhra Pradesh	-

Name of the species: *Dalbergia sissoo*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Dalbergia sissoo</i>	PP-09	HAU, Hissar	-
2	<i>Dalbergia sissoo</i>	PP-16	Para-Sultanpur	-
3	<i>Dalbergia sissoo</i>	PP-21	Baraipara- Ayodhya	-
4	<i>Dalbergia sissoo</i>	PP-22	Mawai-Barabanki	-
5	<i>Dalbergia sissoo</i>	PS-20	Pantnagar	-
6	<i>Dalbergia sissoo</i>	PS-38	Pantnagar	-
7	<i>Dalbergia sissoo</i>	PS-52	Pantnagar	-
8	<i>Dalbergia sissoo</i>	PS-54	Pantnagar	-
9	<i>Dalbergia sissoo</i>	PS-90	Pantnagar	-
10	<i>Dalbergia sissoo</i>	L-1	Ludhiana	-
11	<i>Dalbergia sissoo</i>	L-2	Ludhiana	-
12	<i>Dalbergia sissoo</i>	L-5	Ludhiana	-

Name of the species: *Melia dubia*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Melia dubia</i>	Progeny-1	Institute of Forest Productivity, Ranchi	-
2	<i>Melia dubia</i>	Progeny-2	Institute of Forest Productivity, Ranchi	-
3	<i>Melia dubia</i>	Progeny-3	Institute of Forest Productivity, Ranchi	-
4	<i>Melia dubia</i>	Progeny-4	Institute of Forest Productivity, Ranchi	-
5	<i>Melia dubia</i>	Progeny-5	Institute of Forest Productivity, Ranchi	-



*Eucalyptus tereticornis*



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## AICRP Agroforestry Centre, Dapoli

Name of the species: *Calophyllum inophyllum* L.

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Calophyllum inophyllum</i> L.	KKVCI-1	Ratnagiri, Maharashtra	-
2	<i>Calophyllum inophyllum</i> L.	KKVCI-2	Ratnagiri, Maharashtra	-
3	<i>Calophyllum inophyllum</i> L.	KKVCI-3	Ratnagiri, Maharashtra	-
4	<i>Calophyllum inophyllum</i> L.	KKVCI-4	Ratnagiri, Maharashtra	-
5	<i>Calophyllum inophyllum</i> L.	KKVCI-5	Ratnagiri, Maharashtra	-
6	<i>Calophyllum inophyllum</i> L.	KKVCI-6	Sindhudurg, Maharashtra	-
7	<i>Calophyllum inophyllum</i> L.	KKVCI-7	Sindhudurg, Maharashtra	-
8	<i>Calophyllum inophyllum</i> L.	KKVCI-8	Sindhudurg, Maharashtra	-
9	<i>Calophyllum inophyllum</i> L.	KKVCI-9	Sindhudurg, Maharashtra	-
10	<i>Calophyllum inophyllum</i> L.	KKVCI-10	Sindhudurg, Maharashtra	-
11	<i>Calophyllum inophyllum</i> L.	KKVCI-11	Sindhudurg, Maharashtra	-
12	<i>Calophyllum inophyllum</i> L.	KKVCI-12	Sindhudurg, Maharashtra	-
13	<i>Calophyllum inophyllum</i> L.	KKVCI-13	Sindhudurg, Maharashtra	-
14	<i>Calophyllum inophyllum</i> L.	KKVCI-14	Sindhudurg, Maharashtra	-
15	<i>Calophyllum inophyllum</i> L.	KKVCI-15	Sindhudurg, Maharashtra	-
16	<i>Calophyllum inophyllum</i> L.	KKVCI-16	Sindhudurg, Maharashtra	-

17	<i>Calophyllum inophyllum</i> L.	KKVCI-17	Sindhudurg, Maharashtra	-
18	<i>Calophyllum inophyllum</i> L.	KKVCI-18	Sindhudurg, Maharashtra	-
19	<i>Calophyllum inophyllum</i> L.	KKVCI-19	Ratnagiri, Maharashtra	-
20	<i>Calophyllum inophyllum</i> L.	KKVCI-20	Ratnagiri, Maharashtra	-
21	<i>Calophyllum inophyllum</i> L.	KKVCI-21	Sindhudurg, Maharashtra	-

**Name of the species: *Dendrocalamus stocksii***

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Dendrocalamus stocksii</i>	02	Ratnagiri, Maharashtra	-
2	<i>Dendrocalamus stocksii</i>	05	Sindhudurg, Maharashtra	-
3	<i>Dendrocalamus stocksii</i>	06	Kolhapur, Maharashtra	-
4	<i>Dendrocalamus stocksii</i>	08	Kasargod, Kerala	-
5	<i>Dendrocalamus stocksii</i>	09	Sindhudurg, Maharashtra	-
6	<i>Dendrocalamus stocksii</i>	12	Sindhudurg, Maharashtra	-
7	<i>Dendrocalamus stocksii</i>	16	Sindhudurg, Maharashtra	-
9	<i>Dendrocalamus stocksii</i>	17	Sindhudurg, Maharashtra	-
10	<i>Dendrocalamus stocksii</i>	18	Sindhudurg, Maharashtra	-
11	<i>Dendrocalamus stocksii</i>	19	Sindhudurg, Maharashtra	-
12	<i>Dendrocalamus stocksii</i>	22	Sindhudurg, Maharashtra	-
13	<i>Dendrocalamus stocksii</i>	23	Sindhudurg, Maharashtra	-
14	<i>Dendrocalamus stocksii</i>	24	Sindhudurg, Maharashtra	-
15	<i>Dendrocalamus stocksii</i>	25	Sindhudurg, Maharashtra	-
16	<i>Dendrocalamus stocksii</i>	26	Uttara Kannada, Karnataka	-
17	<i>Dendrocalamus stocksii</i>	27	Uttara Kannada, Karnataka	-
18	<i>Dendrocalamus stocksii</i>	29	Uttara Kannada, Karnataka	-
19	<i>Dendrocalamus stocksii</i>	31	Uttara Kannada, Karnataka	-
20	<i>Dendrocalamus stocksii</i>	33	Karwar, Karnataka	-
21	<i>Dendrocalamus stocksii</i>	34	Belgaum, Karnataka	-
22	<i>Dendrocalamus stocksii</i>	35	Uttara Kannada, Karnataka	-
23	<i>Dendrocalamus stocksii</i>	36	Uttara Kannada, Karnataka	-

**Agroforestry Tree Genetic Resources @ CAFRI**

24	<i>Dendrocalamus stocksii</i>	37	Uttara Kannada, Karnataka	
25	<i>Dendrocalamus stocksii</i>	38	Uttara Kannada, Karnataka	
26	<i>Dendrocalamus stocksii</i>	40	Karwar, Karnataka	
27	<i>Dendrocalamus stocksii</i>	41	Uttara Kannada, Karnataka	
48	<i>Dendrocalamus stocksii</i>	42	Dharwad, Karnataka	
49	<i>Dendrocalamus stocksii</i>	46	Kasaragod, Kerala	
50	<i>Dendrocalamus stocksii</i>	47	Kasaragod, Kerala	
51	<i>Dendrocalamus stocksii</i>	48	Kasaragod, Kerala	
52	<i>Dendrocalamus stocksii</i>	49	Kasaragod, Kerala	
53	<i>Dendrocalamus stocksii</i>	51	Kasaragod, Kerala	
54	<i>Dendrocalamus stocksii</i>	52	North Goa, Goa	-
55	<i>Dendrocalamus stocksii</i>	53	North Goa, Goa	-
56	<i>Dendrocalamus stocksii</i>	56	North Goa, Goa	-
57	<i>Dendrocalamus stocksii</i>	57	Kolhapur, Maharashtra	-
58	<i>Dendrocalamus stocksii</i>	58	Kolhapur, Maharashtra	-
59	<i>Dendrocalamus stocksii</i>	59	Kolhapur, Maharashtra	-
60	<i>Dendrocalamus stocksii</i>	60	Kolhapur, Maharashtra	-
61	<i>Dendrocalamus stocksii</i>	62	Kolhapur, Maharashtra	-
62	<i>Dendrocalamus stocksii</i>	63	Kolhapur, Maharashtra	-
63	<i>Dendrocalamus stocksii</i>	64	Kolhapur, Maharashtra	-
64	<i>Dendrocalamus stocksii</i>	66	Belgaum, Karnataka	-
65	<i>Dendrocalamus stocksii</i>	68	Belgaum, Karnataka	-
66	<i>Dendrocalamus stocksii</i>	70	Ratnagiri, Maharashtra	-
67	<i>Dendrocalamus stocksii</i>	71	Udupi, Karnataka	-
68	<i>Dendrocalamus stocksii</i>	73	Udupi, Karnataka	-
69	<i>Dendrocalamus stocksii</i>	74	Udupi, Karnataka	-
70	<i>Dendrocalamus stocksii</i>	75	Udupi, Karnataka	-
71	<i>Dendrocalamus stocksii</i>	76	Udupi, Karnataka	-
72	<i>Dendrocalamus stocksii</i>	77	Udupi, Karnataka	-
73	<i>Dendrocalamus stocksii</i>	78	South Goa, Goa	-
74	<i>Dendrocalamus stocksii</i>	79	South Goa, Goa	-
75	<i>Dendrocalamus stocksii</i>	80	South Goa, Goa	-
76	<i>Dendrocalamus stocksii</i>	81	South Goa, Goa	-
77	<i>Dendrocalamus stocksii</i>	84	North Goa, Goa	-

78	<i>Dendrocalamus stocksii</i>	89	Ratnagiri, Maharashtra	-
79	<i>Dendrocalamus stocksii</i>	91	Ratnagiri, Maharashtra	-
80	<i>Dendrocalamus stocksii</i>	92	Ratnagiri, Maharashtra	-
81	<i>Dendrocalamus stocksii</i>	93	Ratnagiri, Maharashtra	-
82	<i>Dendrocalamus stocksii</i>	96	Ratnagiri, Maharashtra	-
83	<i>Dendrocalamus stocksii</i>	99	Ratnagiri, Maharashtra	-
84	<i>Dendrocalamus stocksii</i>	100	Ratnagiri, Maharashtra	-

**Plus tree identified**

Name of the species: *Dendrocalamus stocksii*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Dendrocalamus stocksii</i>	Manga CPC-6	Kolhapur, Maharashtra	-
2	<i>Dendrocalamus stocksii</i>	Manga CPC-23	Sindhudurg, Maharashtra	-
3	<i>Dendrocalamus stocksii</i>	Manga CPC-38	Uttara Kannada, Karnataka	-
4	<i>Dendrocalamus stocksii</i>	Manga CPC-47	Kasaragod, Kerala	-
5	<i>Dendrocalamus stocksii</i>	Manga CPC-51	Kasaragod, Kerala	-
6	<i>Dendrocalamus stocksii</i>	Manga CPC-57	Kolhapur, Maharashtra	-
7	<i>Dendrocalamus stocksii</i>	Manga CPC-59	Kolhapur, Maharashtra	-
8	<i>Dendrocalamus stocksii</i>	Manga CPC-60	Kolhapur, Maharashtra	-
9	<i>Dendrocalamus stocksii</i>	Manga CPC-73	Udupi, Karnataka	-
10	<i>Dendrocalamus stocksii</i>	Manga CPC-76	Udupi, Karnataka	-



Manga CPC-6



Manga CPC-38

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## AICRP Agroforestry Centre, UAS, Dharwad

Name of the species: *Azadirachta indica*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.	Remark
1	<i>Azadirachta indica</i>	BJP-1	Bijapur	-	Superior with volume, azadirechtin content, seed yield
2	<i>Azadirachta indica</i>	RCR-2	Raichur	-	Superior with volume, azadirechtin content, seed yield
3	<i>Azadirachta indica</i>	BGK-3	Bagalkot	-	Superior with volume, azadirechtin content, seed yield
4	<i>Azadirachta indica</i>	BLH-4	Bailhongal	-	
5	<i>Azadirachta indica</i>	ARB-5	Arabhavi	-	
6	<i>Azadirachta indica</i>	SNK-6	Sankeshwar	-	
7	<i>Azadirachta indica</i>	BRG-7	Bhimarayanagudi	-	
8	<i>Azadirachta indica</i>	GLB-8	Gulbarga	-	Superior with volume, azadirechtin content, seed yield
9	<i>Azadirachta indica</i>	SRG-9	Siraguppa	-	
10	<i>Azadirachta indica</i>	HGR-10	Hagari	-	
11	<i>Azadirachta indica</i>	GVT-11	Gangavati	-	
12	<i>Azadirachta indica</i>	DWD-12	MARS, Dharwad	-	
13	<i>Azadirachta indica</i>	JNS-13	Jhansi	-	
14	<i>Azadirachta indica</i>	DWDF-14	Dharwad Farm	-	
15	<i>Azadirachta indica</i>	PBN-15	Prabhunagar	-	
16	<i>Azadirachta indica</i>	HMT-16	Hanumanamatti	-	
17	<i>Azadirachta indica</i>	AGR-17	Annigeri	-	
18	<i>Azadirachta indica</i>	GDG-18	Gadag	-	

Name of the species: *Tamarindus indica*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No
1	<i>Tamarindus indica</i>	NTI-5	-	-
2	<i>Tamarindus indica</i>	NTI-14	-	-
3	<i>Tamarindus indica</i>	NTI-15	-	-
4	<i>Tamarindus indica</i>	NTI-19	-	-
5	<i>Tamarindus indica</i>	NTI-31	-	-
6	<i>Tamarindus indica</i>	NTI-32	-	-
7	<i>Tamarindus indica</i>	NTI-77	-	-
8	<i>Tamarindus indica</i>	NTI-79	-	-
9	<i>Tamarindus indica</i>	NTI-80	-	-
10	<i>Tamarindus indica</i>	NTI-84	-	-
11	<i>Tamarindus indica</i>	SMG-4	-	-
12	<i>Tamarindus indica</i>	SMG-13	-	-
13	<i>Tamarindus indica</i>	TKA-1	-	-
14	<i>Tamarindus indica</i>	PKM-1	-	-



DTS-1  
Identified for crown area and fruit yield

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## AICRP Agroforestry Centre, FCRI, Mettupalayam

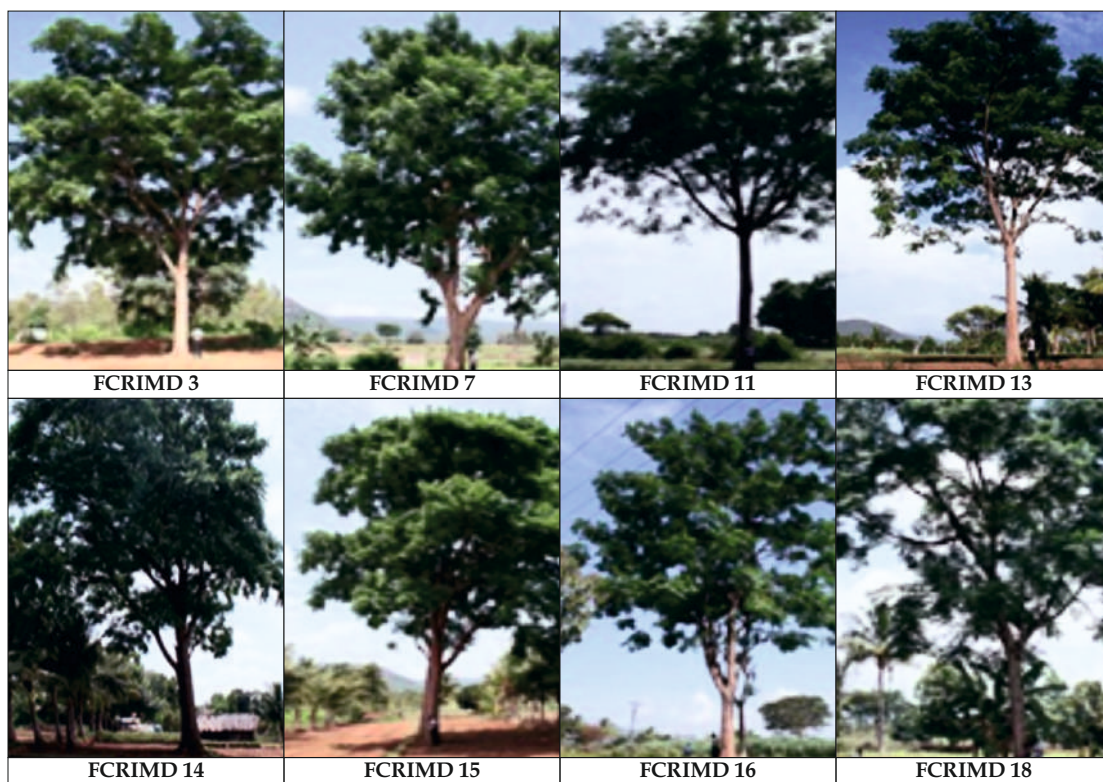
Name of the species: *Melia dubia*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Melia dubia</i>	FCRI-MD-1	Erode, Tamil Nadu	-
2	<i>Melia dubia</i>	FCRI-MD-2	Coimbatore, Tamil Nadu	-
3	<i>Melia dubia</i>	FCRI-MD-3	The Nilgiris, Tamil Nadu	-
4	<i>Melia dubia</i>	FCRI-MD-4	Coimbatore, Tamil Nadu	-
5	<i>Melia dubia</i>	FCRI-MD-5	The Nilgiris, Tamil Nadu	-
6	<i>Melia dubia</i>	FCRI-MD-6	Erode, Tamil Nadu	-
7	<i>Melia dubia</i>	FCRI-MD-7	Erode, Tamil Nadu	-
8	<i>Melia dubia</i>	FCRI-MD-8	Erode, Tamil Nadu	-
9	<i>Melia dubia</i>	FCRI-MD-9	Erode, Tamil Nadu	-
10	<i>Melia dubia</i>	FCRI-MD-10	The Nilgiris, Tamil Nadu	-
11	<i>Melia dubia</i>	FCRI-MD-11	Coimbatore, Tamil Nadu	-
12	<i>Melia dubia</i>	FCRI-MD-12	Erode, Tamil Nadu	-
13	<i>Melia dubia</i>	FCRI-MD-13	Erode, Tamil Nadu	-
14	<i>Melia dubia</i>	FCRI-MD-14	Erode, Tamil Nadu	-
15	<i>Melia dubia</i>	FCRI-MD-15	Erode, Tamil Nadu	-
16	<i>Melia dubia</i>	FCRI-MD-16	Erode, Tamil Nadu	-
17	<i>Melia dubia</i>	FCRI-MD-17	Erode, Tamil Nadu	-
18	<i>Melia dubia</i>	FCRI-MD-18	Erode, Tamil Nadu	-
19	<i>Melia dubia</i>	FCRI-MD-19	Erode, Tamil Nadu	-
20	<i>Melia dubia</i>	FCRI-MD-20	Erode, Tamil Nadu	-
21	<i>Melia dubia</i>	MD HYSR-11	Agroforestry felled tree	-
22	<i>Melia dubia</i>	MD HYSR-06	Curry leaf felled tree	-
23	<i>Melia dubia</i>	MD HYSR-01	Kanur pudur- 1	-
24	<i>Melia dubia</i>	MD HYSR-02	Kanur pudur -2	-
25	<i>Melia dubia</i>	MD HYSR-03	Kanur pudur -3	-

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26	<i>Melia dubia</i>	MD HYSR-04	Kanur pudur -4	-
27	<i>Melia dubia</i>	MD HYSR-07	Oomapalayam -2	-
28	<i>Melia dubia</i>	MD HYSR-08	Pogalur -2	-
29	<i>Melia dubia</i>	MD HYSR-09	Pogalur -3	-
30	<i>Melia dubia</i>	MD HYSR-10	Pogalur -6	-
31	<i>Melia dubia</i>	MD HYSR-05	Pogalur -12	-
32	<i>Melia dubia</i>	MD HYSR-12	Pogalur -13	-
33	<i>Melia dubia</i>	MD HYSR-13	Kaduvettipalayam- 2	-
34	<i>Melia dubia</i>	MD HYSR-14	Kaduvettipalayam -3	-
35	<i>Melia dubia</i>	MD HYSR-15	Kaduvettipalayam -9	-
36	<i>Melia dubia</i>	MD HYSR-16	Kaduvettipalayam -10	-
37	<i>Melia dubia</i>	MD HYSR-17	Kaduvettipalayam -11	-
38	<i>Melia dubia</i>	MD HYSR-18	Kaduvettipalayam -12	-
39	<i>Melia dubia</i>	MD HYSR-19	Kaduvettipalayam -13	-
40	<i>Melia dubia</i>	MD HYSR-20	MTP 4	-
41	<i>Melia dubia</i>	MD HYSR-28	Kaduvettipalayam -1	-
42	<i>Melia dubia</i>	MD HYSR-22	Kaduvettipalayam -4	-
43	<i>Melia dubia</i>	MD HYSR-23	Kaduvettipalayam -5	-
44	<i>Melia dubia</i>	MD HYSR-24	Kaduvettipalayam -6	-
45	<i>Melia dubia</i>	MD HYSR-25	Kaduvettipalayam -7	-
46	<i>Melia dubia</i>	MD HYSR-26	Kaduvettipalayam -8	-
47	<i>Melia dubia</i>	MD HYSR-27	Oomapalayam- 1	-
48	<i>Melia dubia</i>	MD HYSR-21	Oomapalayam-3	-
49	<i>Melia dubia</i>	MD HYSR-29	Kattampatti 1	-
50	<i>Melia dubia</i>	MD HYSR-30	Kattampatti 2	-
51	<i>Melia dubia</i>	MD HYSR-31	Kattampatti 3	-
52	<i>Melia dubia</i>	MD HYSR-32	Kattampatti 4	-
53	<i>Melia dubia</i>	MD HYSR-33	Kattampatti 5	-
54	<i>Melia dubia</i>	MD HYSR-34	R and D Nursery	-





Selected plus trees of *Melia dubia*

**Name of the species: *Ceiba pentandra***

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Ceiba pentandra</i> -seed source	MTPCPP-1	Sempatty 1	-
2	<i>Ceiba pentandra</i>	MTPCPP-2	Vathalakundu	-
3	<i>Ceiba pentandra</i>	MTPCPP-3	Devathanapatty	-
4	<i>Ceiba pentandra</i>	MTPCPP-4	Kullapuram	-
5	<i>Ceiba pentandra</i>	MTPCPP-5	Periyakulam (HC&RI)	-
6	<i>Ceiba pentandra</i>	MTPCPP-6	Agamalai (Kannakarai)	-
7	<i>Ceiba pentandra</i>	MTPCPP-7	Gudalur (Theni District)	-
8	<i>Ceiba pentandra</i>	MTPCPP-8	Periyakulam (Sathiya Nagar)	-

Agroforestry Tree Genetic Resources @ CAFRI

9	<i>Ceiba pentandra</i>	MTPCPP-9	Bodi (Meenakshipuram)	-
10	<i>Ceiba pentandra</i>	MTPCPP-10	Bodi (Anikarapatty)	-
11	<i>Ceiba pentandra</i>	MTPCPP-11	Periyakulam (Kumbankarai)	-
12	<i>Ceiba pentandra</i>	MTPCPP-12	Periyakulam (Puthupatty)	-
13	<i>Ceiba pentandra</i>	MTPCPP-13	Sirumalai (Thazhakidi)	-
14	<i>Ceiba pentandra</i>	MTPCPP-14	Varusanadu (TWAD building)	-
15	<i>Ceiba pentandra</i>	MTPCPP-15	Varusanadu (Petrol bunk1)	-
16	<i>Ceiba pentandra</i>	MTPCPP-16	Varusanadu (Petrol bunk 2)	-
17	<i>Ceiba pentandra</i>	MTPCPP-17	Mailadumparai (Govt. SF)	-
18	<i>Ceiba pentandra</i>	MTPCPP-18	Varusanadu (Tharmarajapuram)	-
19	<i>Ceiba pentandra</i>	MTPCPP-19	Varusanadu (Entrance)	-
20	<i>Ceiba pentandra</i>	MTPCPP-20	Varusanadu (Vaigai Nagar)	-
21	<i>Ceiba pentandra</i>	MTPCPP-21	Sirumalai (Thenmalai)	-
22	<i>Ceiba pentandra</i>	MTPCPP-22	Sirumalai (Velan pannai)	-
23	<i>Ceiba pentandra</i>	MTPCPP-23	Narasimanaicken- palayam (CBE)	-
24	<i>Ceiba pentandra</i>	MTPCP-18	Arachalur	-
25	<i>Ceiba pentandra</i>	MTPCP-37	Paramakudi	-

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## AICRP on Agroforestry, UAS, GKVK, Bangalore

Name of the species: *Tamarindus indica*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Tamarindus indica</i>	DTS-2	Dharwad, Karnataka	-
2	<i>Tamarindus indica</i>	Sweet tamarind	UAS, Dharwad, Karnataka	-
3	<i>Tamarindus indica</i>	Red tamarind	UAS, Dharwad, Karnataka	-
4	<i>Tamarindus indica</i>	SMG-14	UAS, Dharwad, Karnataka	-
5	<i>Tamarindus indica</i>	PKM-1	Tamil Nadu	-
6	<i>Tamarindus indica</i>	Oorigum-1	Tamil Nadu	-
7	<i>Tamarindus indica</i>	GKVK-1	UAS, Bangalore, Karnataka	-
8	<i>Tamarindus indica</i>	GKVK-2	UAS, Bangalore, Karnataka	-
9	<i>Tamarindus indica</i>	NFN-1	Nallala Forest Nursery, Hoskote, Bangalore	-
10	<i>Tamarindus indica</i>	NFN-2	Nallala Forest Nursery, Hoskote, Bangalore	-
11	<i>Tamarindus indica</i>	NFN-3	Nallala Forest Nursery, Hoskote, Bangalore	-
12	<i>Tamarindus indica</i>	NFN-4	Nallala Forest Nursery, Hoskote, Bangalore	-
13	<i>Tamarindus indica</i>	NFN-5	Nallala Forest Nursery, Hoskote, Bangalore	-
14	<i>Tamarindus indica</i>	NFN-6	Nallala Forest Nursery, Hoskote, Bangalore	-
15	<i>Tamarindus indica</i>	NFN-7	Nallala Forest Nursery, Hoskote, Bangalore	-
16	<i>Tamarindus indica</i>	NFN-8	Nallala Forest Nursery, Hoskote, Bangalore	-
17	<i>Tamarindus indica</i>	NFN-9	Nallala Forest Nursery, Hoskote, Bangalore	-
18	<i>Tamarindus indica</i>	NFN-10	Nallala Forest Nursery, Hoskote, Bangalore	-
19	<i>Tamarindus indica</i>	Hosakote-2	ARS, Chintamani, Chikkaballapura, Karnataka	-

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20	<i>Tamarindus indica</i>	Hosakote-3	ARS, Chintamani, Chikkaballapura, Karnataka	-
21	<i>Tamarindus indica</i>	Hosakote-11	ARS, Chintamani, Chikkaballapura, Karnataka	-
22	<i>Tamarindus indica</i>	Hosakote-12	ARS, Chintamani, Chikkaballapura, Karnataka	-
23	<i>Tamarindus indica</i>	Hosakote-15	ARS, Chintamani, Chikkaballapura, Karnataka	-
24	<i>Tamarindus indica</i>	GKVK-4	ARS, Chintamani, Chikkaballapura, Karnataka	-
25	<i>Tamarindus indica</i>	GKVK-10	ARS, Chintamani, Chikkaballapura, Karnataka	-
26	<i>Tamarindus indica</i>	GKVK-13	ARS, Chintamani, Chikkaballapura, Karnataka	-
27	<i>Tamarindus indica</i>	GKVK-17	ARS, Chintamani, Chikkaballapura, Karnataka	-



*Tamarindus indica* (PKM-1)



DTS-2  
Identified for crown area and fruit yield

Name of the species: *Pongamia pinnata*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Pongamia pinnata</i>	RAK-2015-01	MPKV Rahuri	-
2	<i>Pongamia pinnata</i>	RAK-2015-02	MPKV Rahuri	-
3	<i>Pongamia pinnata</i>	RAK-2015-03	MPKV Rahuri	-
4	<i>Pongamia pinnata</i>	RAK-2015-04	MPKV Rahuri	-
5	<i>Pongamia pinnata</i>	RAK-2015-07	MPKV Rahuri	-
6	<i>Pongamia pinnata</i>	RAK-2015-08	MPKV Rahuri	-
7	<i>Pongamia pinnata</i>	RAK-2015-09	MPKV Rahuri	-
8	<i>Pongamia pinnata</i>	RAK-2015-10	MPKV Rahuri	-



*Pongamia pinnata*

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## AICRP Agroforestry Centre, G.B. Pant University of Agriculture and Technology, Pantnagar

Name of the species: *Tamarindus indica*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Populus deltoides</i>	Pant poplar 5/PP5	US Nagar, Uttarakhand	INGR11053
2	<i>Dalbergia sissoo</i>	96-52	US Nagar, Uttarakhand	INGR11052



*Populus deltoides* (INGR11053)  
Identified as straight bole, borer resistant clone



*Dalbergia sissoo* (INGR11052)  
Identified as Straight bole, mortality resistant genotype

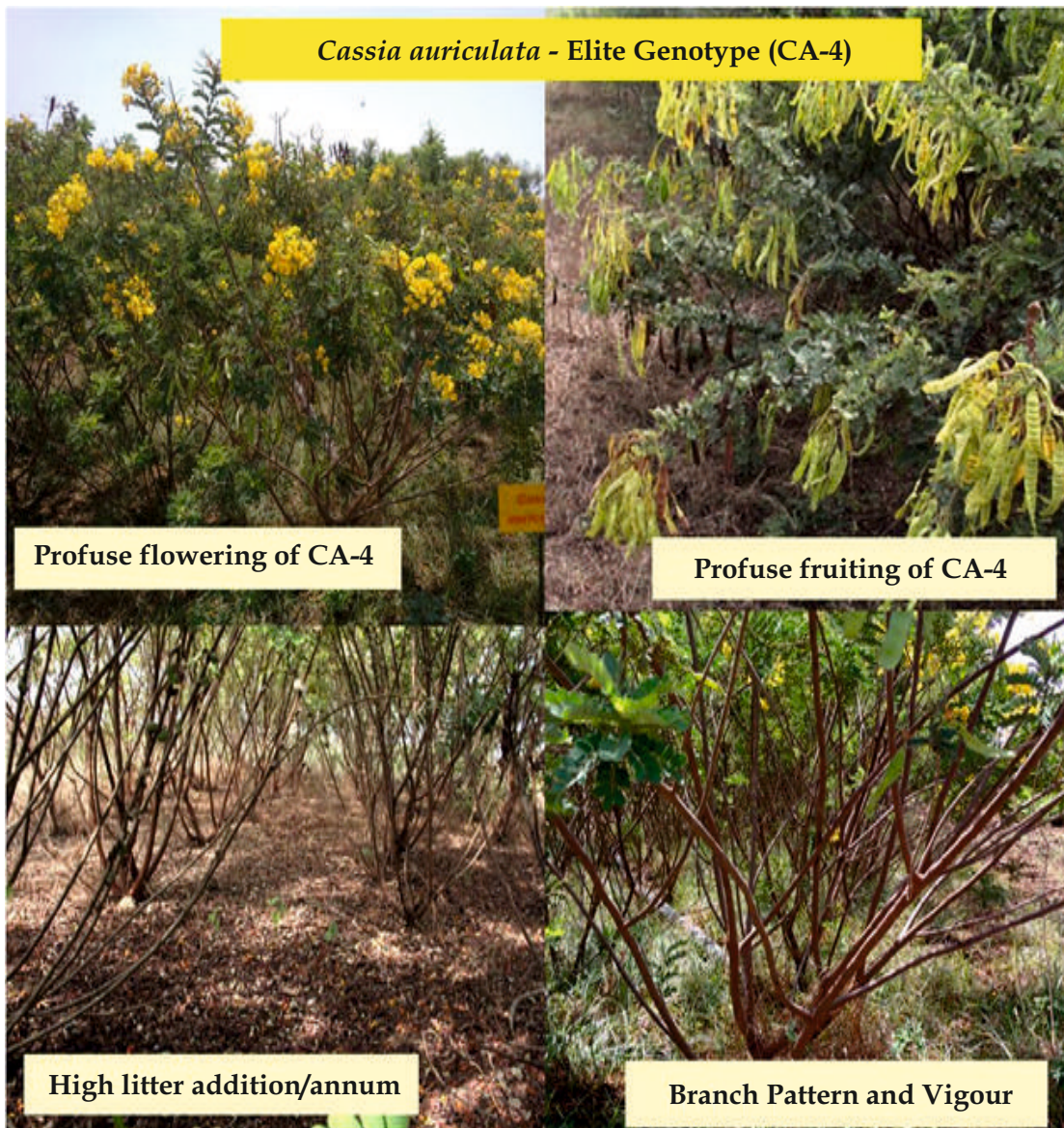
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## AICRP Agroforestry Centre, IIWSC, Kota

Name of the species: *Cassia auriculata*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Cassia auriculata</i>	Jhalawar - CA-1	Jhalawar	-
2	<i>Cassia auriculata</i>	Jhalawar - CA-2	Jhalawar	-
3	<i>Cassia auriculata</i>	Eswal - CA-3	Rajasmand	-
4	<i>Cassia auriculata</i>	Eswal - CA-4	Rajasmand	-
5	<i>Cassia auriculata</i>	Sajangarh - CA-5	Udaipur	-
6	<i>Cassia auriculata</i>	Mauvili - CA-6	Udaipur	-
7	<i>Cassia auriculata</i>	Chittorgarh - CA-7	Chittorgarh	-
8	<i>Cassia auriculata</i>	Kumbalgarh - CA-8	Rajasmand	-
9	<i>Cassia auriculata</i>	Jaisamand - CA-9	Udaipur	-
10	<i>Cassia auriculata</i>	Bagdhara - CA-10	Banswara	-
11	<i>Cassia auriculata</i>	Sivagangai - CA-11	Sivaganga	-
12	<i>Cassia auriculata</i>	Bisalpur - CA-12	Pali	-
13	<i>Cassia auriculata</i>	Balwana - CA-13	Pali	-
14	<i>Cassia auriculata</i>	Perwa - CA-14	Pali	-
15	<i>Cassia auriculata</i>	Semperpur - CA-15	Pali	-
16	<i>Cassia auriculata</i>	Gatla - CA-16	Jaisamand	-
17	<i>Cassia auriculata</i>	Retguriya - CA-17	Jaisamand	-
18	<i>Cassia auriculata</i>	Veerpura - CA-18	Jaisamand	-
19	<i>Cassia auriculata</i>	Pilader - CA-19	Jaisamand	-
20	<i>Cassia auriculata</i>	Khanakheri - CA-20	Jaisamand	-
21	<i>Cassia auriculata</i>	Kewalpura - CA-21	Chittorgarh	-
22	<i>Cassia auriculata</i>	Jarkharana - CA-22	Chittorgarh	-
23	<i>Cassia auriculata</i>	Salumber - CA-23	Salumber	-
24	<i>Cassia auriculata</i>	Bhagatpura - CA-24	Banswara	-
25	<i>Cassia auriculata</i>	Janawari - CA-25	Banswara	-

26	<i>Cassia auriculata</i>	Kanpuri - CA-26	Banswara	-
27	<i>Cassia auriculata</i>	Kesarpura - CA-27	Banswara	-
28	<i>Cassia auriculata</i>	Kherwara - CA-28	Dungurpur	-
29	<i>Cassia auriculata</i>	Antri - CA-29	Dungurpur	-
30	<i>Cassia auriculata</i>	Rampur - CA-30	Dungurpur	-



Elite genotype (high density model)



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## AICRP Agroforestry Centre, MPKV, Rahuri

Name of the species: *Eucalyptus* spp.

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>E. camaldulensis</i>	13816	Ahilyanagar, Maharashtra	-
2	<i>E. camaldulensis</i>	14540	Ahilyanagar, Maharashtra	-
3	<i>E. brassiana</i>	13874	Ahilyanagar, Maharashtra	-
4	<i>E. terreticornis</i>	13847	Ahilyanagar, Maharashtra	-
5	<i>E. terreticornis</i>	13366	Ahilyanagar, Maharashtra	-
6	<i>E. microtheca</i>	13359	Ahilyanagar, Maharashtra	-
7	<i>E. microtheca</i>	13360	Ahilyanagar, Maharashtra	-
8	<i>E. toraliana</i>	14310	Ahilyanagar, Maharashtra	-
9	<i>E. apodophylla</i>	11481	Ahilyanagar, Maharashtra	-
10	<i>E. orchropholia</i>	1734	Ahilyanagar, Maharashtra	-
11	<i>E. agrofolia</i>	13713	Ahilyanagar, Maharashtra	-

Name of the species: *Acacia nilotica*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Acacia nilotica</i> var. <i>cuperessiformis</i>	-	Patoda	-
2	<i>Acacia nilotica</i> var. <i>cuperessiformis</i>	-	Parali	-
3	<i>Acacia nilotica</i> var. <i>cuperessiformis</i>	-	Ambejogai	-
4	<i>Acacia nilotica</i> var. <i>cuperessiformis</i>	-	Beed	-
5	<i>Acacia nilotica</i> var. <i>cuperessiformis</i>	-	Gangakhed	-
6	<i>Acacia nilotica</i> var. <i>cuperessiformis</i>	-	Jamkhed	-
7	<i>Acacia nilotica</i> var. <i>cuperessiformis</i>	-	Dhamori	-

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19	<i>Acacia nilotica</i> var. <i>cuperessiformis</i>	-	Nandgaon	-
20	<i>Acacia nilotica</i> var. <i>cuperessiformis</i>	-	Chas	-
21	<i>Acacia nilotica</i> var. <i>cuperessiformis</i>	-	Rahur	-

**Name of the species: *Azadirachta indica***

S.No.	Name of the species	Place of collection/ exploration	Germplasm No.	IC No.
1	<i>Azadirachta indica</i>	Waghunde (A. Nagar)	-	-
2	<i>Azadirachta indica</i>	Ghavanwadi	-	-
3	<i>Azadirachta indica</i>	Karde (Pune)	-	-
4	<i>Azadirachta indica</i>	Someshwar	-	-
5	<i>Azadirachta indica</i>	Tambve (Satara)	-	-
6	<i>Azadirachta indica</i>	Watharst.	-	-
7	<i>Azadirachta indica</i>	Bamrmati (Pune)	-	-
8	<i>Azadirachta indica</i>	Agra Road (Dhule)	-	-
9	<i>Azadirachta indica</i>	Bhambertanda (Sambhaji Nagar)	-	-
10	<i>Azadirachta indica</i>	Hatnur road (Sambhaji Nagar)	-	-

**Name of the species: *Bamboo spp.***

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No
1	Bamboo	-	AICRP, Rahuri	-
2	<i>Bambusa affinis</i>	-	AICRP, Rahuri	-
3	<i>Bambusa burmanica</i>	-	AICRP, Rahuri	-
4	<i>Bambusa Striata</i>	-	AICRP, Rahuri	-
5	<i>Dendrocalamus longispatus</i>	-	AICRP, Rahuri	-
6	<i>Dendrocalamus membranaceus</i>	-	AICRP, Rahuri	-
7	<i>Bambusa multiplex</i>	-	AICRP, Rahuri	-
8	<i>Dendrocalamus sikkimensis</i>	-	AICRP, Rahuri	-
9	<i>Phyllostachys mannii</i>	-	AICRP, Rahuri	-
10	<i>Melocanna baccifera</i>	-	AICRP, Rahuri	-

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11	<i>Phyllostachys aurea</i>	-	AICRP, Rahuri	-
12	<i>Shibatacakumasca</i>	-	AICRP, Rahuri	-
13	<i>Bambusa vulgaris</i>	-	AICRP, Rahuri	-
14	<i>Pseudosasa japonica</i>	-	AICRP, Rahuri	-
15	<i>Guadua angustifolia</i>	-	AICRP, Rahuri	-
16	<i>Dendrocalamus asper</i>	-	AICRP, Rahuri	-
17	<i>Bambusa nutans</i>	-	AICRP, Rahuri	-
18	<i>Oxytenantheraabyssinica</i>	-	AICRP, Rahuri	-
19	<i>Bambusa polymorpha</i>	-	AICRP, Rahuri	-
20	<i>Bambusa cacharensis</i>	-	AICRP, Rahuri	-
21	<i>Oxytenanthera parvifolia</i>	-	AICRP, Rahuri	-
22	<i>Guadua angustifolia</i>	-	AICRP, Rahuri	-
23	<i>Sehizostachyumpergracile</i>	-	AICRP, Rahuri	-
24	<i>Sasa fortunei</i>	-	AICRP, Rahuri	-
25	<i>Sehizostachyumdullooa</i>	-	AICRP, Rahuri	-
26	<i>Bambusa wamin</i>	-	AICRP, Rahuri	-
27	<i>Bambusa tulda</i> var. <i>striata</i>	-	AICRP, Rahuri	-
28	<i>Bambusa bambos</i> var. <i>gigantea</i>	-	AICRP, Rahuri	-
29	<i>Bambusa tulda</i>	-	AICRP, Rahuri	-
30	<i>Dendrocalamus asper</i>	-	AICRP, Rahuri	-
31	<i>Dendrocalamus brandisii</i>	-	AICRP, Rahuri	-
32	<i>Dendrocalamus hamiltonii</i>	-	AICRP, Rahuri	-
33	<i>Dendrocalamus strictus</i>	-	AICRP, Rahuri	-
34	<i>Bambusa bamboo</i>	-	AICRP, Rahuri	-
35	<i>Dendrocalamus brandissi</i>	-	AICRP, Rahuri	-
36	<i>Bambusa balcooa</i>	-	AICRP, Rahuri	-
37	<i>Gigantochloa atter</i>	-	AICRP, Rahuri	-
38	<i>Tienostachyumwghtii</i>	-	AICRP, Rahuri	-
31	<i>Bambusa bamboo</i>	-	AICRP, Rahuri	-
32	<i>Dendrocalamus brandissi</i>	-	AICRP, Rahuri	-
33	<i>Bambusa balcooa</i>	-	AICRP, Rahuri	-
34	<i>Gigantochloa atter</i>	-	AICRP, Rahuri	-
35	<i>Tienosta chyumwghtii</i>	-	AICRP, Rahuri	-

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**AICRP Agroforestry Centre,  
College of Agriculture, Nagpur**

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Tectona grandis</i> (L.F.)	PDKV-AF-1	PDKV, College of Agriculture, Nagpur	-
2	<i>Ailanthus excelsa</i>	ACN-MHK-1	PDKV, College of Agriculture, Nagpur	-
3	<i>Melia dubia</i> (L)	PDKV-MTP-6	PDKV, College of Agriculture, Nagpur	-



*Melia dubia*



*Tectona grandis*



*Ailanthus excelsa*

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## AICRP Agroforestry Centre, OUAT, Bhubneshwar

Name of the species: *Eucalyptus teriticornis*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Eucalyptus teriticornis</i>	JKSCED	Raygada, JK	-
2	<i>Eucalyptus teriticornis</i>	JKSCEU	Raygada, JK	-
3	<i>Eucalyptus teriticornis</i>	FRI-ET-31	FRI, Dehradhun	-
4	<i>Eucalyptus teriticornis</i>	FRI-ET-32	FRI, Dehradhun	-
5	<i>Eucalyptus teriticornis</i>	FRI-ET-35	FRI, Dehradhun	-
6	<i>Eucalyptus teriticornis</i>	ET-MTP-13	TNAU, Metupallyam	-
7	<i>Eucalyptus teriticornis</i>	ET-MTP-29	TNAU, Metupallyam	-
8	<i>Eucalyptus teriticornis</i>	ET-MTP-31	TNAU, Metupallyam	-



*Eucalyptus teriticornis*

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## AICRP Agroforestry Centre, RPCAU, Pusa

Name of the species: *Melia dubia*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Melia dubia</i>	V-261	Institute of Forest Productivity, Ranchi	-
2	<i>Melia dubia</i>	V-75(2)	Institute of Forest Productivity, Ranchi	-
3	<i>Melia dubia</i>	II-262(5)	Institute of Forest Productivity, Ranchi	-
4	<i>Melia dubia</i>	IFP-J	Institute of Forest Productivity, Ranchi	-
5	<i>Melia dubia</i>	IFP-1	Institute of Forest Productivity, Ranchi	-
6	<i>Melia dubia</i>	IFP-I	Institute of Forest Productivity, Ranchi	-
7	<i>Melia dubia</i>	IFP-K	Institute of Forest Productivity, Ranchi	-

Name of the species: *Dalbergia sissoo*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Dalbergia sissoo</i>	DRS-2	Institute of Forest Productivity, Ranchi	-
2	<i>Dalbergia sissoo</i>	DRS-4	Institute of Forest Productivity, Ranchi	-
3	<i>Dalbergia sissoo</i>	DRS-6	Institute of Forest Productivity, Ranchi	-
4	<i>Dalbergia sissoo</i>	DRS-14	Institute of Forest Productivity, Ranchi	-
5	<i>Dalbergia sissoo</i>	DRS-18	Institute of Forest Productivity, Ranchi	-
6	<i>Dalbergia sissoo</i>	DRS-31	Institute of Forest Productivity, Ranchi	-
7	<i>Dalbergia sissoo</i>	DRS-51	Institute of Forest Productivity, Ranchi	-
8	<i>Dalbergia sissoo</i>	DRS-66	Institute of Forest Productivity, Ranchi	-
9	<i>Dalbergia sissoo</i>	DRS-86	Institute of Forest Productivity, Ranchi	-

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10	<i>Dalbergia sissoo</i>	DRS-99	Institute of Forest Productivity, Ranchi	-
11	<i>Dalbergia sissoo</i>	DRS-100	Institute of Forest Productivity, Ranchi	-
12	<i>Dalbergia sissoo</i>	DRS-107	Institute of Forest Productivity, Ranchi	-
13	<i>Dalbergia sissoo</i>	DRS-138	Institute of Forest Productivity, Ranchi	-
14	<i>Dalbergia sissoo</i>	DRS-201	Institute of Forest Productivity, Ranchi	-
15	<i>Dalbergia sissoo</i>	DRS-36	Institute of Forest Productivity, Ranchi	-
16	<i>Dalbergia sissoo</i>	DRS-810	Institute of Forest Productivity, Ranchi	-
17	<i>Dalbergia sissoo</i>	DRS-9001006	Institute of Forest Productivity, Ranchi	-
18	<i>Dalbergia sissoo</i>	DRS-1010	Institute of Forest Productivity, Ranchi	-
19	<i>Dalbergia sissoo</i>	DRS-1013	Institute of Forest Productivity, Ranchi	-
20	<i>Dalbergia sissoo</i>	DRS-5001	Institute of Forest Productivity, Ranchi	-
22	<i>Dalbergia sissoo</i>	DRS-1011	Institute of Forest Productivity, Ranchi	-
23	<i>Dalbergia sissoo</i>	DRS-5008	Institute of Forest Productivity, Ranchi	-
24	<i>Dalbergia sissoo</i>	DRS-99	Institute of Forest Productivity, Ranchi	-
25	<i>Dalbergia sissoo</i>	DRS-100	Institute of Forest Productivity, Ranchi	-
26	<i>Dalbergia sissoo</i>	DRS-107	Institute of Forest Productivity, Ranchi	-
27	<i>Dalbergia sissoo</i>	DRS-138	Institute of Forest Productivity, Ranchi	-
28	<i>Dalbergia sissoo</i>	DRS-201	Institute of Forest Productivity, Ranchi	-
29	<i>Dalbergia sissoo</i>	DRS-36	Institute of Forest Productivity, Ranchi	-



**Agroforestry Tree Genetic Resources @ CAFRI**

30	<i>Dalbergia sissoo</i>	DRS-810	Institute of Forest Productivity, Ranchi	-
31	<i>Dalbergia sissoo</i>	DRS-9001006	Institute of Forest Productivity, Ranchi	-
32	<i>Dalbergia sissoo</i>	DRS-1010	Institute of Forest Productivity, Ranchi	-
33	<i>Dalbergia sissoo</i>	DRS-1013	Institute of Forest Productivity, Ranchi	-
34	<i>Dalbergia sissoo</i>	DRS-5001	Institute of Forest Productivity, Ranchi	-
35	<i>Dalbergia sissoo</i>	DRS-1011	Institute of Forest Productivity, Ranchi	-
36	<i>Dalbergia sissoo</i>	DRS-5008	Institute of Forest Productivity, Ranchi	-
37	<i>Dalbergia sissoo</i>	DRS-107	Institute of Forest Productivity, Ranchi	-
38	<i>Dalbergia sissoo</i>	DRS-138	Institute of Forest Productivity, Ranchi	-
39	<i>Dalbergia sissoo</i>	DRS-201	Institute of Forest Productivity, Ranchi	-
40	<i>Dalbergia sissoo</i>	DRS-36	Institute of Forest Productivity, Ranchi	-
41	<i>Dalbergia sissoo</i>	DRS-810	Institute of Forest Productivity, Ranchi	-
42	<i>Dalbergia sissoo</i>	DRS-9001006	Institute of Forest Productivity, Ranchi	-
43	<i>Dalbergia sissoo</i>	DRS-1010	Institute of Forest Productivity, Ranchi	-
44	<i>Dalbergia sissoo</i>	DRS-1013	Institute of Forest Productivity, Ranchi	-
45	<i>Dalbergia sissoo</i>	DRS-5001	Institute of Forest Productivity, Ranchi	-
46	<i>Dalbergia sissoo</i>	DRS-1011	Institute of Forest Productivity, Ranchi	-
47	<i>Dalbergia sissoo</i>	DRS-5008	Institute of Forest Productivity, Ranchi	-

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## AICRP Agroforestry Centre, Hisar

Name of the species: *Melia composita*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Melia composita</i>	MCS-1	Himachal Pradesh	-
2	<i>Melia composita</i>	MCS-2	Himachal Pradesh	-
3	<i>Melia composita</i>	MCS-3	Himachal Pradesh	-
4	<i>Melia composita</i>	MCS-4	Himachal Pradesh	-
5	<i>Melia composita</i>	MCS-5	Himachal Pradesh	-
6	<i>Melia composita</i>	MCS-6	Himachal Pradesh	-
7	<i>Melia composita</i>	MCPN-1	Uttrakhand	-
8	<i>Melia composita</i>	MCB-1	Haryana	-
9	<i>Melia composita</i>	MCB-2	Haryana	-
10	<i>Melia composita</i>	MCB-3	Haryana	-
11	<i>Melia composita</i>	MCB-4	Haryana	-
12	<i>Melia composita</i>	MCB-5	Haryana	-
13	<i>Melia composita</i>	MCBH-1	Punjab	-
14	<i>Melia composita</i>	MCBH-2	Punjab	-
15	<i>Melia composita</i>	MCBH-3	Punjab	-
16	<i>Melia composita</i>	MCPAU-1	Punjab	-
17	<i>Melia composita</i>	MCPAU-2	Punjab	-
18	<i>Melia composita</i>	MCPAU-3	Punjab	-

Name of the species: *Populus deltoides*

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Populus deltoides</i>	T-98	Tombigbee River, Columbus, USA	-
2	<i>Populus deltoides</i>	T-21	Roanoke River, Rich Square, NC, USA	-

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3	<i>Populus deltoides</i>	T-33	Ashley/Edisto R, Summerville SC, USA	-
4	<i>Populus deltoides</i>	T-50	Tombigbee River, Tupelo, MS, USA	-
5	<i>Populus deltoides</i>	T-46	Saludo River, Silver Street, SC, USA	-
6	<i>Populus deltoides</i>	T-59	Tombigbee River, McIntosh, AL, USA	-
7	<i>Populus deltoides</i>	9607	Lake albermale, MS, USA	-
8	<i>Populus deltoides</i>	6503	Morganza, Melville, USA	-
9	<i>Populus deltoides</i>	1007	Mumford, Robinson, T×, USA	-
10	<i>Populus deltoides</i>	63-N	Open pollinated seed from Nalagarh, HP	-
11	<i>Populus deltoides</i>	G-48	Australia	-
12	<i>Populus deltoides</i>	5503	South of Highway 110, Louisiana, USA	-
13	<i>Populus deltoides</i>	L-200/86	Forest Department Lalkuan, Uttrakhand	-
14	<i>Populus deltoides</i>	WSL-22	Wimco Seedling, Rudrapur, Uttrakhand	-

**Name of the species: *Populus deltoides***

S.No.	Name of the species	Germplasm No.	Place of collection/ exploration	IC No.
1	<i>Dalbergia sissoo</i>	PS-20	Pantnagar (Uttrakhand)	-
2	<i>Dalbergia sissoo</i>	PS-38	Pantnagar (Uttrakhand)	-
3	<i>Dalbergia sissoo</i>	PS-52	Pantnagar (Uttrakhand)	-
4	<i>Dalbergia sissoo</i>	PS-54	Pantnagar (Uttrakhand)	-
5	<i>Dalbergia sissoo</i>	PS-90	Pantnagar (Uttrakhand)	-



## List of Abbreviations

%	-	Percentage
AICRP	-	All India Co-ordinated Research Project
ATGR	-	Agroforestry tree genetic resources
CAFRI	-	Central Agroforestry Research Institute
CBT	-	Candidate plus tree
cm	-	Centimetre
DBH	-	Diameter at breast height
FCRI	-	Forest College and Research Institute
g	-	Gram
IC	-	Indigenous collection
ICAR	-	Indian Council of Agricultural Research
IGFRI	-	Indian Grassland and Fodder Research Institute
IGIC	-	Institute Germplasm Identification Committee
IIWSC	-	Indian Institute of Water and Soil Conservation
ITC	-	Indian Tobacco Company
ITMU	-	Institute Technology Management Unit (ICAR-CAFRI, Jhansi)
Kg	-	Kilogram
mg	-	Milligram
MPKV	-	Mahatma Phule Krishi Vidayapeeth
NBPGR	-	National Bureau of Plant Genetic Resource
MTP	-	Mettupalayam, Tamilnadu
NFTPs	-	Non-Timber Forest Products
NRM	-	Natural resource management
NRCAF	-	National Research Centre for Agroforestry
PT	-	Plus tree
Prov.	-	Provenances
RPCAU	-	Rajendra Prasad Central Agricultural University
SAU	-	State Agricultural University
TFRI	-	Tropical Forest Research Institute
UAS	-	University of Agricultural Sciences







Swachh Bharat Abhiyan



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