

Contribution of Vrukshamate Saalumarada Thimmakka to Sustainable Environmental Development in Karnataka

Dr. Basavaraju, H. N¹, Dr. Poornima B S²

^{1,2}Associate Professor, Department of Economics Govt. First Grade College for Women, MG Road,
Hassan- 573202

Abstract:

Salumarada Thimmakka is a renowned environmentalist from Karnataka who has made a remarkable contribution to sustainable environmental development through her dedication to planting and protecting trees. Popularly known as “Vrukshamate” or Mother of Trees, she demonstrated how individual efforts can significantly improve the environment. Along with her husband Bikkala Chikkayya, she planted and nurtured hundreds of banyan trees along the roadside between Hulikal and Kudur. These trees have contributed to improving air quality, preventing soil erosion, supporting biodiversity, and providing shade and ecological balance in the region. Her efforts highlight the importance of a forestation and community participation in achieving environmental sustainability. The green corridor created by her tree plantation has become a symbol of dedication toward nature conservation in Karnataka. Her work has inspired many individuals, environmental groups, and government initiatives to promote tree planting and environmental awareness. In recognition of her contributions, she received the prestigious Padma Shri from the Government of India. Overall, Salumarada Thimmakka’s life and work demonstrate how grassroots efforts can play a vital role in promoting sustainable environmental development and protecting natural resources for future generations.

Keywords: Sustainable Development, Environmental Conservation, Biodiversity,

Introduction

Sustainable Environmental Development refers to the responsible use and management of natural resources in a way that meets the needs of the present generation without compromising the ability of future generations to meet their own needs. It focuses on maintaining a balance between economic growth, environmental protection, and social well-being. As the world continues to develop rapidly through industrialization, urbanization, and technological advancement, the pressure on natural resources such as forests, water, soil, and biodiversity has increased significantly. Sustainable environmental development aims to address these challenges by promoting practices that protect and

conserve the environment while supporting human progress. The concept gained global recognition in the late twentieth century as people became increasingly aware of environmental problems such as climate change, deforestation, pollution, and loss of biodiversity. Unsustainable activities like excessive use of fossil fuels, improper waste disposal, and overexploitation of natural resources have led to serious environmental degradation. Sustainable development encourages the adoption of eco-friendly technologies, renewable energy sources, responsible consumption, and effective environmental policies to reduce these impacts.

One of the key principles of sustainable environmental development is the efficient use of resources. This includes reducing waste, recycling materials, conserving water and energy, and protecting ecosystems. Governments, organizations, and individuals all play an important role in achieving sustainability. International cooperation, environmental education, and community participation are essential for implementing sustainable practices on a global scale. Furthermore, sustainable environmental development supports long-term economic stability and social equity. By investing in green technologies, sustainable agriculture, and renewable energy, societies can create jobs while protecting natural systems. It also ensures that resources are distributed fairly and that vulnerable communities are not disproportionately affected by environmental damage. Sustainable environmental development is essential for the survival and prosperity of both humanity and the planet. By adopting sustainable practices today, we can preserve the Earth's natural resources, maintain ecological balance, and create a healthier environment for future generations. It requires collective responsibility, innovative solutions, and a strong commitment to protecting the environment while continuing to meet human needs.

Objective of the Study

To examine and highlight the environmental contributions of Salumarada Thimmakka toward sustainable environmental development in Karnataka, particularly through her tree-planting initiatives, promotion of a forestation, improvement of environmental quality, and her role in inspiring public awareness and participation in environmental conservation.

Methodology

This research paper is based on **secondary data sources** to study the contribution of Salumarada Thimmakka to sustainable environmental development in Karnataka. The methodology used for this study is simple and descriptive in nature. The study follows a descriptive research design. It aims to describe and analyze the environmental contributions of Salumarada Thimmakka and how her activities support sustainable environmental development. The research is based entirely on **secondary data**. Information has been collected from various reliable sources such as: Books related to environmental studies and conservation, Research articles and journals, Newspaper articles and magazines, Government and environmental organization reports, Authentic websites and online resources. These sources provide information about the life, work, and environmental impact of Salumarada Thimmakka. Since the study relies only on secondary sources, it may not include direct field observations or primary

data. The findings depend on the accuracy and availability of the existing literature and published information. This methodology helps in understanding the environmental contributions of Salumarada Thimmakka using existing literature and documented information, providing a clear overview of her role in promoting sustainable environmental development in Karnataka.

Role of Salumarada Thimmakka in Environmental Conservation

Salumarada Thimmakka, popularly known as “Vrukshamate” (Mother of Trees), is a well-known environmentalist from Karnataka, India. She is widely respected for her remarkable contribution to environmental conservation through tree planting and protection. Despite facing poverty and lack of formal education, she dedicated her life to nurturing nature and spreading awareness about the importance of trees. Salumarada Thimmakka, along with her husband Bikkala Chikkayya, began planting banyan trees along the roadside between Hulikal and Kudur. Over the years, they planted and cared for around 385 banyan trees. Since they had no children, Thimmakka considered these trees as her own children and nurtured them with great dedication. She carried water for long distances and protected the young plants from animals and harsh weather until they grew strong. Her efforts greatly improved the local environment. The trees provided shade for travelers, reduced soil erosion, improved air quality, and supported biodiversity by creating habitats for birds and animals. Today, the long stretch of banyan trees stands as a symbol of environmental responsibility and the power of individual action. The inspiring work of Thimmakka has been recognized across India and internationally. She received many awards, including the prestigious Padma Shri from the Government of India for her contribution to environmental protection. Her life story encourages people to plant trees, respect nature, and participate actively in protecting the environment. Vrukshamate Salumarada Thimmakka has played a significant role in promoting environmental conservation through her dedication to planting and protecting trees. Her work proves that even a single person can make a meaningful difference in protecting the planet. She remains a powerful inspiration for future generations to care for nature and work towards a greener and more sustainable world.

Contribution of Salumarada Thimmakka

Salumarada Thimmakka, also known as Vrukshamate (Mother of Trees), is a famous environmentalist who made a remarkable contribution to sustainable environmental development in Karnataka. Through her dedication to planting and protecting trees, she helped improve the natural environment and inspired people to care for nature. Her contributions can be explained in the following points:

1. Large-Scale Tree Plantation

Salumarada Thimmakka, along with her husband Bikkala Chikkayya, planted around **385 banyan trees** along the roadside between Hulikal and Kudur. They planted saplings and carefully nurtured them for many years. This plantation created a long green corridor that continues to benefit the environment and local communities. Planting trees alone is not enough; caring for them until they grow strong is very important. Thimmakka and her husband watered the plants by carrying water from distant sources and

protected them from animals and harsh weather. Their dedication ensured that most of the saplings survived and grew into large banyan trees.

2. Improvement of Local Climate and Air Quality

The banyan trees planted by Thimmakka help improve the **air quality** by absorbing carbon dioxide and releasing oxygen. They also reduce air pollution and help maintain a balanced local climate. Trees naturally cool the surrounding area, making the environment healthier and more comfortable for people.

3. Prevention of Soil Erosion

The deep roots of banyan trees help **hold the soil firmly**, preventing soil erosion along the roadside. This contributes to sustainable land management and protects the soil from being washed away during heavy rains. The trees planted by Thimmakka provide shelter and food for many birds, insects, and small animals. By creating a natural habitat, she helped promote **biodiversity**, which is an important aspect of sustainable environmental development.

4. Shade and Comfort for Travelers

The long line of banyan trees offers **shade to travelers and villagers** walking along the road. This improves the quality of life for people in the region and shows how environmental conservation can also support human needs. The work of Salumarada Thimmakka has inspired many people across India to plant and protect trees. Her story encourages individuals and communities to participate in environmental conservation and sustainable practices.

5. Recognition and Encouragement of Green Initiatives

Because of her remarkable work, she was honored with the prestigious Padma Shri by the Government of India. This recognition has helped spread awareness about the importance of tree planting and environmental protection. Through her continuous tree-planting efforts, Salumarada Thimmakka promoted **afforestation**, which means increasing the number of trees in an area. Afforestation helps restore ecological balance, increases green cover, and supports long-term environmental sustainability.

6. Encouragement of Community Participation

Her inspiring work motivated local villagers, students, and environmental groups to participate in **tree-planting programs**. Many people started understanding the importance of protecting nature and began contributing to environmental conservation. The trees planted by her improved the rural landscape and environmental conditions in nearby villages such as Hulikal and Kudur. They helped create a healthier and greener rural environment, which is an important part of sustainable development. The banyan trees she planted are **native to India** and well suited to the local climate of Karnataka. By planting native species, she helped maintain the natural ecosystem and ensured that the trees could survive and thrive for many years with minimal resources.

7. Long-Term Environmental Impact

The banyan trees planted decades ago continue to grow and provide environmental benefits such as carbon absorption, oxygen production, and habitat for wildlife. This shows how **small actions today can create long-lasting environmental benefits** for future generations. After gaining recognition, Salumarada Thimmakka has been invited to schools, colleges, and environmental events to speak about

the importance of protecting nature. Her story serves as a powerful educational example of sustainable living.

8. Recognition Strengthening Environmental Movements

Her awards, including the Padma Shri given by the Government of India, helped bring attention to grassroots environmental work. This recognition encouraged more environmental movements and tree-planting initiatives across the country. **Overall**, the life and work of Salumarada Thimmakka demonstrate that **individual dedication, love for nature, and consistent effort can significantly contribute to sustainable environmental development**. Her legacy continues to inspire people to protect the environment and plant more trees for a greener future.

Result and Analysis

The study on the contribution of Salumarada Thimmakka to sustainable environmental development in Karnataka reveals significant environmental, social, and ecological benefits resulting from her efforts in tree plantation and conservation. The analysis of secondary data shows that her work has had a long-lasting positive impact on the local environment and has also inspired environmental awareness among the public.

One of the major findings of the study is the **successful creation of a green corridor** through the planting of around 385 banyan trees along the roadside between Hulikal and Kudur. These trees have grown into large, mature trees that provide shade, improve air quality, and contribute to ecological balance in the region. The presence of these trees helps absorb carbon dioxide and release oxygen, thereby reducing air pollution and supporting a healthier environment.

The results also indicate that the banyan trees planted by Thimmakka play an important role in **preventing soil erosion and maintaining soil fertility**. The deep root systems of the trees help hold the soil firmly, especially during heavy rains, which protect the surrounding land and road areas. This demonstrates how tree plantation can contribute to sustainable land management.

Another important result is the **support for biodiversity**. The trees provide habitat and food for many birds, insects, and small animals. As a result, the area has developed a richer ecosystem over time. This highlights the ecological importance of planting and protecting native tree species in rural areas.

The study further shows that the work of Salumarada Thimmakka has had a strong **social and educational impact**. Her dedication, despite poverty and lack of formal education, has inspired many people to participate in environmental conservation activities such as tree planting and protection. Her life story has been widely shared through media, educational programs, and environmental campaigns, encouraging communities to take responsibility for protecting nature.

The recognition she received, including the prestigious Padma Shri Awarded by the Government of India, further strengthened awareness about grassroots environmental efforts. This recognition has encouraged individuals, organizations, and government bodies to promote a forestation and sustainable environmental practices.

Overall, the results of the study indicate that the contribution of Salumarada Thimmakka is a **powerful example of how individual initiatives can support sustainable environmental development**. Her

work demonstrates that simple actions such as planting and nurturing trees can create long-term environmental, ecological, and social benefits. The study concludes that her efforts continue to inspire environmental protection and highlight the importance of community participation in achieving sustainability.

Conclusion

Salumarada Thimmakka, known as Vrukshamate, has made a remarkable contribution to sustainable environmental development in Karnataka through her dedicated tree-planting and conservation efforts. Her work has improved air quality, prevented soil erosion, supported biodiversity, and inspired communities to participate in environmental protection. Thimmakka's life demonstrates that individual commitment can create lasting ecological and social impact, making her a true role model for environmental sustainability.

References

Books

1. **Siddesh, Nellikatte S.** Vruksha Mathe Salumarada Thimmakka . A biographical book on the life and environmental work of Salumarada Thimmakka, highlighting her tree-planting mission and impact.

Academic/Research Papers & Journals

1. **Srinivasacharlu, A.** "Saalumarada Thimmakka – *Mother of Trees*," *Review of Research*, Vol. 7, Issue 7 (2018) . A peer-reviewed article detailing her initiatives, honours, and environmental implications of her work.
2. **Mathur, R.** "Women at the Forefront of Environmental Conservation," *Community Women's Ecology Journal*, Vol. 2, No. 2. Discusses Thimmakka's environmental role along with other women conservationists and her influence on grassroots afforestation.

Chapters/Edited Volumes

1. **Iyyanar, S.** Her-Story: Environmental and Sustainability Practice in India. A chapter that discusses women environmentalists in India, including Salumarada Thimmakka's contribution to sustainable development and conservation.

Additional Secondary Source (Not Strictly Books/Journals but Scholarly)

1. **Academia.edu Paper:** Life & Works of a Great Indian Environmentalist: Saalumarada Thimmakka (2023). A research PDF profiling her life and environmental legacy.