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Concept Note:

"Sustainable Shelter: *Borassus flabellifer* Plantation for Thunderstorms Resilience, Carbon Sequestration, and Environmental Enhancement in Bangladesh "

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Executive Summary:

The project aims to establish *Borassus flabellifer* (locally known as Taal plant) plantations in Bangladesh to mitigate the impact of thunderstorms on human lives, improve the carbon economy, and promote environmental sustainability. By engaging local communities, the project seeks to create a win-win situation, addressing both social and environmental challenges.

Background:

Bangladesh is prone to severe thunderstorms, posing a significant threat to human lives and property. Thunderstorms often lead to fatalities and injuries, especially in rural areas where communities lack adequate shelter and protection due to a lack of plants. Planting *Borassus flabellifer* presents an opportunity to mitigate these risks while promoting environmental sustainability.

Project Overview:

Bangladesh faces recurring threats from thunderstorms, leading to fatalities and environmental degradation. This project aims to establish *Borassus flabellifer* plantations as a natural shield against thunderstorms in rural areas, simultaneously improving the carbon economy and environmental conditions. Community engagement in harvesting foods, fuel, and wood, along with sustainable practices, are pivotal components, ensuring lasting positive impacts.



Project Rationale:

Context:

Bangladesh experiences high vulnerability to thunderstorms, particularly in rural areas lacking adequate shelter. *Borassus flabellifer*, capable of holding thunderstorms and known for its resilience and carbon sequestration capabilities, offers a sustainable solution to mitigate these risks.

Objectives:

1. Reduce Thunderstorm-Related Fatalities:

- Establish *Borassus flabellifer* plantations in vulnerable regions to provide natural shelter during thunderstorms.
- Educate communities on the importance of *Borassus flabellifer* in protecting lives during extreme weather events.

2. Improve Carbon Economy:

- Enhance carbon sequestration by promoting the growth of *Borassus flabellifer*, known for its ability to absorb and store carbon dioxide.
- Contribute to the fight against climate change by increasing green cover and promoting sustainable practices.

3. Environmental Improvement:

- Rehabilitate degraded lands through the cultivation of *Borassus flabellifer*, promoting biodiversity and soil conservation.
- Generate awareness about the positive impact of *Borassus flabellifer* on the local ecosystem and its role in preventing soil erosion.

4. Economic Empowerment:

- Create income-generating opportunities for local communities by establishing *Borassus flabellifer* plantations and promoting value-added products.
- Foster community ownership and involvement in the sustainable management of the plantations.



Implementation Strategy:

1. Site Selection:

- Identify regions prone to thunderstorms with a focus on vulnerable communities lacking proper shelter.
- Collaborate with local authorities and communities to select suitable sites for *Borassus flabellifer* plantations.

2. Community Engagement:

- Conduct awareness campaigns to educate communities on the benefits of *Borassus flabellifer* in protecting against thunderstorms.
- Involve local communities in the planting and maintenance of the trees, fostering a sense of ownership.

3. Capacity Building:

- Provide training to local communities on sustainable plantation management.
- Facilitate workshops on the economic opportunities associated with *Borassus flabellifer*, such as palm sap collection and product processing.

4. Monitoring and Evaluation:

- Establish a robust monitoring and evaluation system to track the growth of *Borassus flabellifer*, carbon sequestration, and community involvement.
- Regularly assess the effectiveness of the project in reducing thunderstorm-related fatalities and improving environmental conditions.

Expected Outcomes:

- I. Reduced fatalities and injuries during thunderstorms.
- II. Increased green cover and carbon sequestration.
- III. Conserved biodiversity.
- IV. Improved economic opportunities for local communities.
- V. Enhanced environmental resilience in vulnerable regions.

Line of Budget:

- a) Awareness development among a large number of farmers.



GLOBAL COMMUNITY ORGANIZATION

South Milik Bagha, Bagha-6280

Bagha, Rajshahi, Bangladesh

NGOAB Reg.No-3388, Date: 02/11/2023

DSS Reg. No-Rajsha-975/14, Date: 08/05/2014

- b) Consultant's fees; salaries of scientific staff; supporting staff; nursery shades; planting materials; labor; lands; accessories; transport, etc., for raising one hundred thousand seedlings in the nursery during a year.
- c) Costs of field experiments: Scientific staff, material, nursing, evaluation, processing data, etc.
- d) Presentation of results in different national and international organizations.
- e) Maintenance of the office, including computers and office accessories.
- f) Transport facilities like motorcycles and other transport.
- g) Costs of dissemination of results through mass and electronic media.
- h) Cost of report preparation, presentation, and publications.

Conclusion:

The Plantation of *Borassus flabellifer* in Bangladesh project addresses critical challenges faced by vulnerable communities, offering a sustainable and holistic solution. We seek funding to implement this project, bringing about positive changes in both human lives and the environment. Your support will contribute to a resilient and sustainable future for Bangladesh.