



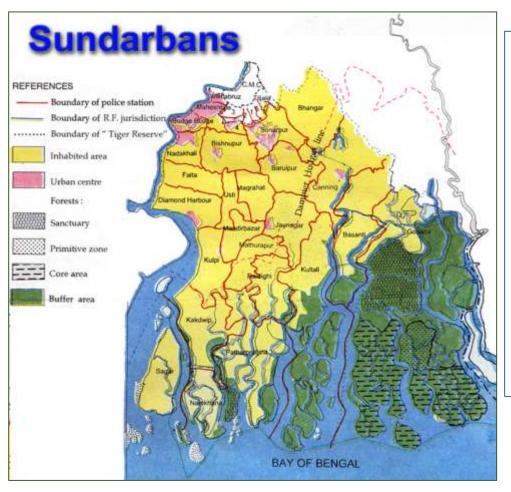
# Green Brigades – Instituting women governance in land and forestry management in Sundarban, India



Nature Environment & Wildlife Society www.naturewildlife.org







It is a Tiger Reserve,
National Park,
UNESCO World Heritage Site,
Ramsar Site
and
Biosphere Reserve,

An area of 9630 sq km, protected area consists of 4264 sq km and the human habituated area constitute 5366 sq km



### AlLA – a cyclonic storm happened





















Mangroves deforested due to aquaculture, habitation encroachments









Mangroves depleted in areas adjacent to the embankments





### Vulnerable embankments can only be protected by mangroves

- > STRATEGY:
- 1. Scale up mangrove restoration.
- 2. Involve local communities who are co-actors in rebuilding functional ecosystems.
- 3. Policy level inclusions

## NATURE BASED SOLUTION

- ☐ By default , women came in large numbers -
- 1. Men migrated outside
- 2. Cash dearth in families elderly persons and children remained with no income





- Men and women play different roles in forestry and agroforestry systems in developing countries.
- Compared with men, women are frequently disadvantaged –
  for a range of interrelated cultural, social, economic and
  institutional reasons in their access to and control over forest
  resources, and in the economic opportunities available to
  them.

Yet, they constitute half of the human population

















### Challenges

- Activities along the forestry value chain tend to be differentiated along gender lines.
- Men are mostly engaged in planting, maintaining and harvesting trees for commercial purposes.
- While women mainly take care of products for subsistence use, such as food, medicines, fuelwood, fodder, backyard kitchen etc.
- Distribution of labour considered such activities hazardous for women
- Social taboos

### **Opportunities**

- Mobilisation: Front liners living at the edge of the islands near to forests
- Caring attitude of women for long term protection of trees
- Scope for sustainable management of natural resources
- Achieve gender balance in forestry associations and forest user groups
- Enable women to participate fully in decision-making within these associations/groups
- Scope of training, and support for income generation









Organising into groups

Collecting seeds





#### Checking on the root-shoot ratio



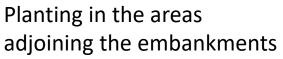


Planting saplings



Sowing seeds in nurseries











#### No barriers existed











They could recreate the bio-shield and protect their village





## They could fortify their embankments – Amphan cyclone 2020







### Enjoyment, fun and pride









These intertwined bonding with land and natural resources lead to a new culture of reverential use and maintenance and preservation of natural resources and the environment, ensuring that the subsequent generations can meet their needs.

Emerged the *Green brigades* .....











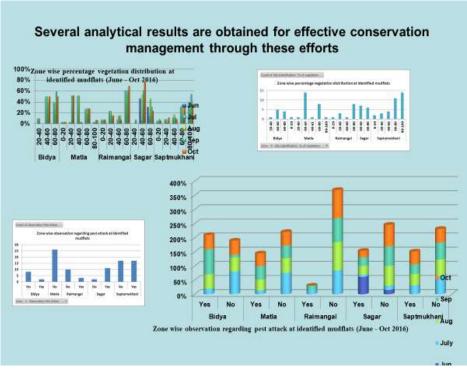








Delineating areas with GPS



Mangrove Watch Report



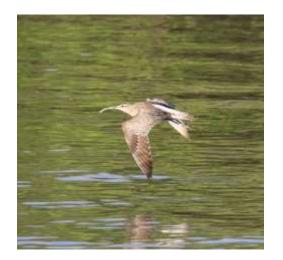
### Taking photographers, tourists to the bird colonies that have developed there















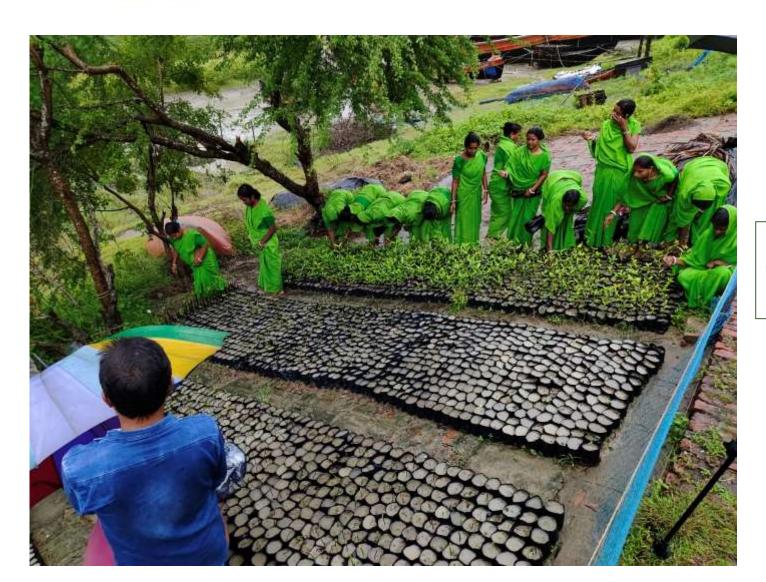
## Negotiating with the Irrigation Department, on the nature of dykes











Empowered women, in full charge



### Preparing soil









### Making jute poly bags







### Making awareness campaigns in the village









Also started making nurseries with native species for agrihorticulture purpose







### Doing sustainable fisheries in leased out ponds







### Preparing the background work – Azolla cultivation









Using tensiometer in agri-fields to optimize water use

Using pH measurements for water quality in fisheries







#### Lessons learnt:

- ➤ Women participation in forest management accelerate the competence of forest institutions.
- ➤ The knowledge, skills and practices of both of them contribute to the conservation, management and improvement of natural resources.
- > Women's contribution lead to better following of rules and a greater transparency in the working of the organization.
- ➤ It even leads to an improved conflict resolution and improved observance.

So it's important to regard the both genders' participation





What needs to be understood -

The numerous roles played by women have created situation whereby they influence and are influenced by the environment. With the degradation of environment and depletion of forests, this relationship becomes increasingly negative: the scarcity of resources increases, demanding more time and energy to secure them. These relations between women and the environment required to be acknowledged, understood and integrated into project development.

What is expected-

Enhancing the understanding of gender roles along forestry value chains,

Supporting value chain activities performed by women, and Working with existing processing and marketing groups in which women participate





### Green brigades –

a story, whereby women are being empowered to become leaders in their communities for sustainable forest management. Women are able to provide economic support to the family and seek their autonomy and leadership within their communities.











### A protected mangrove ecosystem



Thank you