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A brief presentation On

Enhancing Community Resilience to Climate Change: Models, Approach and practices

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Major Areas of discussion:

- Uniqueness in context and problems
- Overview and Location of the action
- Different climate smart community based adaptation models
- Different approaches to mobilize community toward building resilience

Uniqueness in context and problems:

- Coastal area (32% land areas & 27% population) of Bangladesh
- Very adjacent to Sundarbans & Bay of Bengal
- Highly saline prone area both soil and water
- Facing climate change induced vulnerabilities
- Disaster prone area (Frequency & intensity of disaster increasing)
- Extreme poverty and high malnutrition
- Loss of bio-diversity
- Decline agricultural production
- Increasing occupational displacement

Overview and Location of the action

Title of the Action:

Paribartan - A Multi Country Climate Change initiative for Increasing Resilience and Reducing Risk of Coastal Communities to Climate Change and Natural Hazards in the Bay of Bengal

Overall Objective:

To contribute towards **poverty alleviation** amongst poor communities in coastal areas of the Bay of Bengal, through **reducing their risk** to the **impacts of hazards and climate change**

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- Funded by: EU
- Duration: February 2011 to January 2016
- Partners: Concern World Wide

Shushilan, JJS & RCDC

Location:

Bangladesh: Satkhira, Khulna, Barguna & Patuakhali

India: Kendrapara and Jagatshingpur

Different climate smart–community based adaptation models

- Demonstrate practical way for climate change adaptation options
- Basic Principles to select pilot options:
 - Addresses the immediate climate vulnerabilities of most vulnerable.
 - Is sustainable and economically viable.
 - Integration of local and scientific knowledge.
 - Uses local resources and knowledge.
 - Location specific and climate friendly.
 - Easily accessible and locally available.
 - Ensures community participation.
- 4 adaptation models/options have been selected and piloted are
 - Model-1: Composite Agriculture Model (Integrated Rice-Vegetable-Fish)
 - Model-2: Integrated RWHS & Resilience Shelter with homestead vegetable gardening
 - Model-3: Energy saving & hazard free Stove-Fuel Wood Plantation organic vegetable gardening
 - Model-4: Community protection through embankment/char plantation, homestead plantation and mangrove nursery

Adaptation Model-1: Composite Agriculture farming (Integrated Rice-Vegetable-Fish)

Components:

- Component -1: Saline Tolerant Rice
 Cultivation
- Component-2: Fish Culture

 Component-3: Saline Tolerant Vegetables cultivation on dyke



Outcomes:

- Food & Nutrition Security
- EconomicSecurity
- Resilient & viable
 Technology





Adaptation Model-2: Integrated RWHS & Resilience Shelter with homestead vegetable gardening

Components:

- Component -1: Rain Water Harvesting System
- Component-2: Resilient Shelter
- Component-3: Year round
 Saline Tolerant Vegetables
 cultivation on Poly-bed (HH
 Nutrition supply)



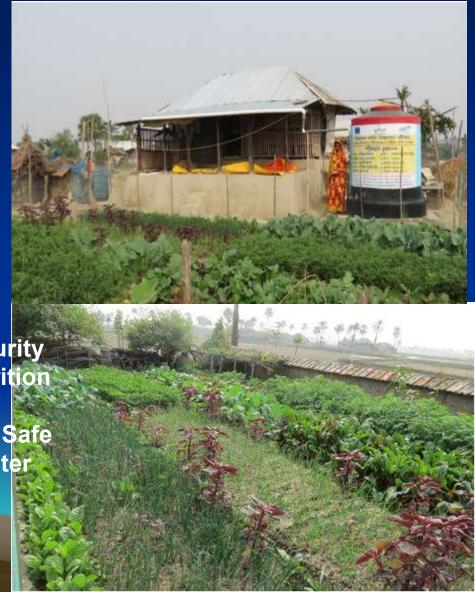
Outcomes:

Shelter Security

Food & Nutrition assurance

Year Round Safe Drinking Water Availability

EconomicSecurity



Adaptation Model-3: Energy saving & hazard free Stove-Fuel Wood Plantation - organic vegetable gardening

Components:

- Component-1: Energy efficient earthen stove with cement-sand made chimney
- Component-2: Fast growing Fuel wood plantation down the boundary: Ipil-ipil, Sesbania
- Component-3: Homestead vegetable gardening





Outcomes:

- Multi cooking and less hazard
- Less fuel –Less Carbon emission
- Available fuel & fodder
- Increased soil productivity
- Nutrition source

Adaptation Model-4: Community protection through embankment/char plantation, homestead plantation and mangrove nursery

Components:

- Component -1: HH boarder Plantation as wind breaker
- Component-2: Community based mangrove nursery
- Component-3: Char land & embankment Plantation to protect structure





Outcomes:

- Shelter & Hon Stead Security
- Improved Bio-diversity
- Income generation
- Increased longevity of Risk

Mitigation Structures

Different approaches to mobilize community toward building resilience

1. Community Risk & Vulnerability Assessment (CRVA) and planning

 CRVA conducted by using different PRA tools like transect walk, social map, well-being ranking, hazard mapping etc.

Through this process community people become we aware about risk, hazard, vulnerabilities, inequalities





- Based on their existing situation analyzed, every community
- prepared their own action plan to address the situation

2. Gram Paribartan Team (GPT)

- An Approach to Development of Local Facilitator
- One GPT has been formed at village level and each GPT consist of 6 members (3 male & 3 female)
- Build –up their capacity on CCA, DRR & CRVA process



- GPT members are playing active role in their respective community likeorganize CRVA, conduct community sessions, participated rally, memorandum (CRVA action plan) submission to Upazila administration, build up awareness in their respective community etc
- Build up linkages with UP, Upazila administration, NGOs to undertake different initiatives to implement their own action plan

3. Paribartan Students Forum (PSF)

- Each PSF has formed with 25 students from class six to class ten and 5 students from each class.
- Session facilitation with PSF on CCA & DRR
- Learning visit to field sites and other schools
- PSF leaded awareness campaign
- Art/ painting competition to explore children's expression





- Prepare contingency plan at school level
- Develop children as long term community resource persons
- Students will take lead role to address local disaster and climate change related risks and vulnerabilities.



4. Women Forum at different level

- Women are most vulnerable to climate change
- Need to raise women voices/demands at different level
- Formed and nurturing of Union level Women Forum consists of 30 members coming from GPTs (3 representatives from each GPT)
- Formed and nurturing of Upazila level Women Forum consists of 9 members coming from Union Women Forum (3 representatives from each GPT)
- Trained women members on CC concept, impacts, adaptation, CRVA process, planning and negotiation skills
- Participated in different high level meeting, workshops, events to raise their opinions



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