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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**

- **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
- Economic Security
- 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**
- **Economic Security**

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 & Homestead 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 well aware about risk, hazard, vulnerabilities, inequalities, CC impacts in their respective community**



- **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 like-organize 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 led 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





Thanks

