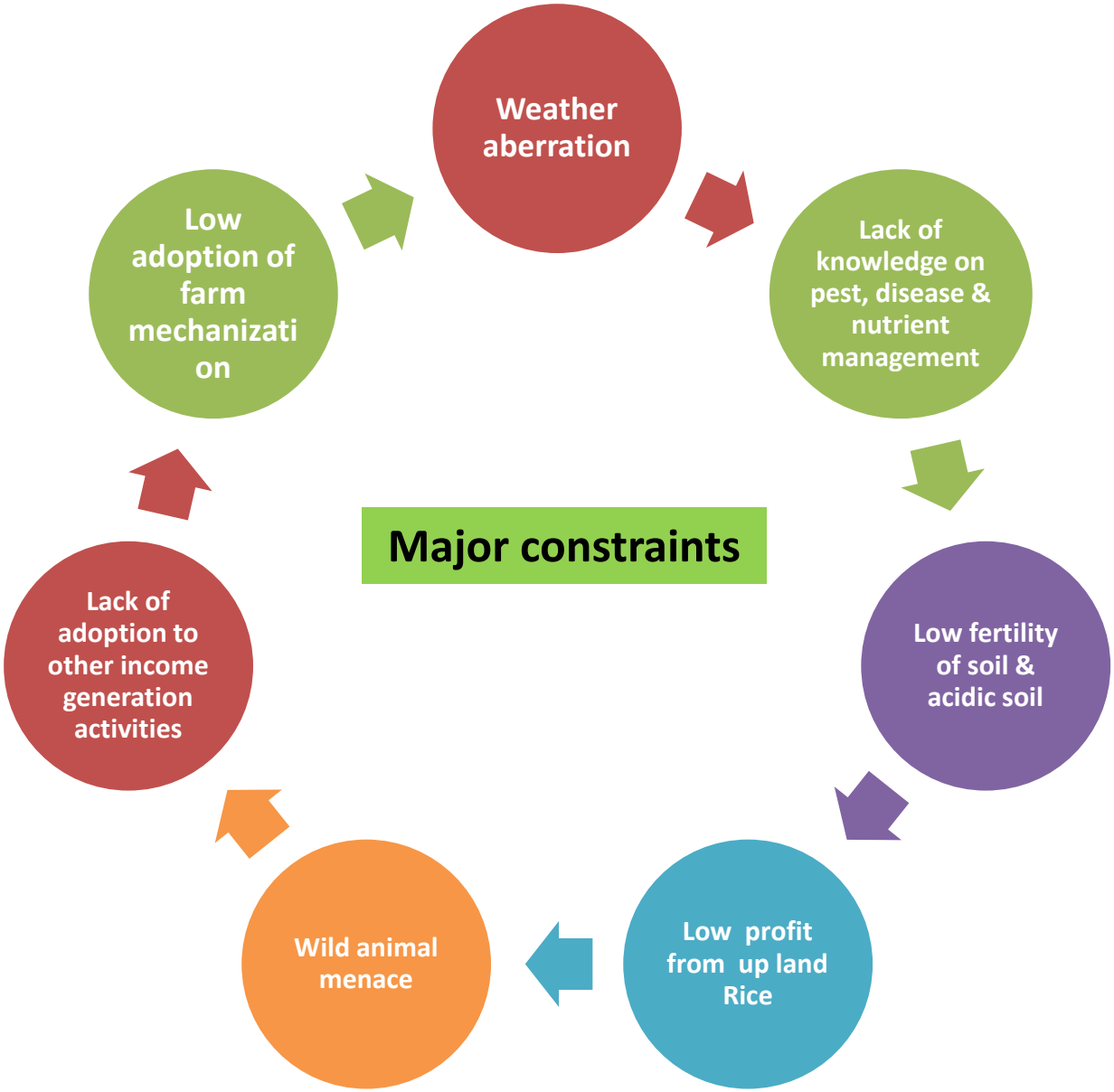
ACTIVITY OF RESILIENCE PROJECT GANJAM-II CLUSTER (OUAT)

RESILIENCE PROJECT

Objective- To increase Agricultural productivity, adaptive capacity & livelihoods of small holders to climate & economic changes by building resilience & strengthening the agri-product market value chain

Details of Resilience project villages (Since, 2018)

Sl no.	Village name	Block	Year of adoption
1	Chikarada	Rangeilunda	2018
2	Sasanpadar	Rangeilunda	2018
3	Chandapur	Rangeilunda	2020
4	Baghalati	Kukudakhandi	2021
5	Kusumi	Kukudakhandi	2022


Major constraints
Weather aberration
Lack of knowledge on pest, disease & nutrient management
Low fertility of soil & acidic soil
Low profit from up land Rice
Wild animal menace
Lack of adoption to other income generation activities
Low adoption of farm mechanizati on

Major interventions for upscaling

- Crop diversification from upland Rice to vegetable cultivation & Ragi cultivation
- Stress tolerant varities: –Rice(Swarna sub-1, MTU-1061)

  Greengram (IPM 02-14,Virat)
- Resilient interventions- Green manuring

  Leaf colour chart

  Pest monitoring by pheromone trap, light trap

  Application of neem pesticide & Bt for pest management

  Poly mulching in Vegetable crops

  Trellis system in cucbitaceous vegetables

Other interventions for upscaling

- Low cost poly house
- Integrated farming system
- Agro-Service centre
- Plant health Clinic
- Agro –forestry
- Income generation activities-Mushroom, vermicomposting
- Capacity building programme

Climate Resilient model villages

Villages : Chikarada, Sasanpadar, Chandapur, Bhagalati, Kusumi

➢ Interventions for up-scaling

- Crop diversification from upland Rice to vegetable cultivation & Ragi cultivation
- Stress tolerant var. of Rice – Swarna sub-1, MTU-1061 & Greengram var.-IPM 02- 14 & Virat
- Green manuring, Leaf colour chart, pest monitoring by pheromone trap, light trap, application of neem pesticide for pest management.
- Trellis system in gourd vegetable to decrease pest & disease infestation & increase female flowers
- Integrated farming system
- Agro-Service centre & Plant health Clinic
- Agro –forestry
- Application of solar technology in agriculture
- Income generation activities-Mushroom, vermicomosting
- Training on FPO management and establishment of market linkage

Interventions during last 04 years

Title of demonstration	Area(Ha.)	No. of farmers	Adoption%
Crop diversification	36	102	63%
Stress tolerant var. of Rice	82ha.	226	72%
Stress tolerant var. of Greengram	66ha	132	50%
Poly mulching in Vegetable crops	02ha.	18	35%
Trellis system	01ha	12	55%
Income generation activity(Mushroom)	18units	18	80%

Status of up-scaling activity(*Rabi,2023*)

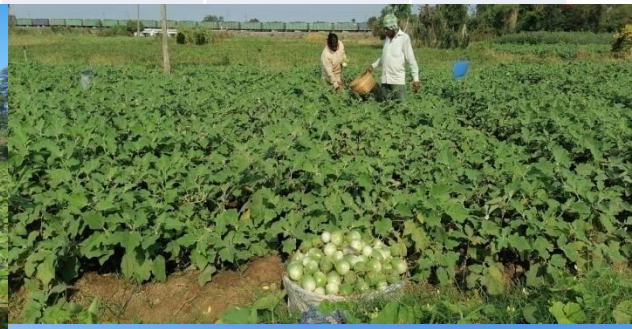
Crop/ Enterprise	Title	Technology	Project village		Up-scaled village		Remarks
			No.	Area (Ha)/ farmers	No	Area (Ha)/ farmers	
Green gram	Stress tolerant Greengram var. Virat	foliar nutrient (NPK::19:19:19)@ 2.5kg/ha, Indoxocarb, Neem, Trichocard for pest management	04	25/70	18	28/75	Harvested
Vegetables	Poly mulching in Brinjal	50 micron polythene, Raised bed of 03 ft. wide and 06 inch ht, paired row planting	02	02/12	12	04/25	Harvested
Vegetables	Trellis system in Ridge gourd	Nylon net, Row to Row 5ft & Plant to Plant 04 ft	03	04/15	25	08/30	Harvested

Demonstration on Short duration Greengram var. Virat

Intervention	No.of pods/plant	YMV incidence(%)	Yield (q/ha.)	Gross cost/ha (Rs.)	Net return/ha.(Rs.)	B:C ratio
RP- HYV Virat, foliar application of water soluble fertiliser NPK: (19:19:19)@ 2.5kg/ha., Indoxocarb@ 500ml/ha. for pod borer problem	14.6	-	6.6	19000	14000	1.74
FP-Local var. with no foliar application	9.1	18.3	4.7	16000	7500	1.47

Poly muching in Brinjal

Intervention	No.of weeds/ m2	No. of MD/ha for weeding	Yield (q/ha.)	Gross cost/ha (Rs.)	Net return/ ha.(Rs.)	B:C ratio
RP- Poly mulching(50 micron) in Raised bed , (03 ft. wide and 06 inch ht,) paired row planting	9.4	28	297	143000	151000	2.15
FP- No poly mulching	58.2	62	256	135000	124000	1.93



Trelis system in Ridge gourd

Intervention	Anthracnose Disease leaf%	No.of fruits/plant	Yield (q/ha.)	Gross cost/ha (Rs.)	Net return/ ha.(Rs.)	B:C ratio
RP- Trelis system with Nylon net, Row to Row 5ft & Plant to Plant 04 ft	6.8	22.6	146.4	118000	174400	2.48
FP- Trailing in bamboo structure	16.3	18.4	124.6	102000	147200	2.43

Plant Health Clinic achievements

- No of programme conducted - 25
- Farmers participated - 520[Male-372, Female148]
- Samples analysed - 685
- Crops covered -Tomato, Brinjal, Chilli, Gourd vegetables, pulse crop & flower plants

Type of Problem (pest & diseases) identified & analysed : -

- Leaf folder, Stem borer, Case worm, Brown Plant Hopper, Mealy bug insects of Rice
- Blast, Sheath blight, Sheath Rot, Bacterial leaf blight ,Brown spot diseases in Rice
- Wilting, leaf spot, powdery mildew, Shoot & fruit borer, aphids, White fly, Mites, Thrips in vegetables
- YMV, Pod borer, sucking pests in Pulses

Activity Pictures

Input distribution on Dt.19.06.2019

Phone in programme

Audio programme

Low cost poly tunnel

Poly mulching demo.

Soil sampling

Orchard management

Line transplanting

Millet products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RESILIENCE


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SHOT ON POCO M3


SHOT ON POCO M3


RESILIENCE


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INTERNATIONAL COLLABORATIVE PROJECT
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