

Improving Food Security through Sustainable Agriculture Practices and Strengthening Local Biodiversity Management

Location:
10 villages
Salumber block
Udaipur, Rajasthan

Environmental features:
Undulating terrain
Meena Tribe
Tropical Dry Deciduous
Forest

Livelihoods:
Agriculture
Animal Husbandry

Gram Sabha

Cross cutting themes

People's voice
PRI linkage with people



Objectives

Familiarize people with government schemes related to food security;
Introduce project to the Gram Panchayat and people

Inputs

Introduction of project to the Gram Panchayat;
Sarpanch introduced to the issues

Outputs

4 Gram Sabha organised in 4 villages- Ven, Panninal, Khajoori, Sarwani; 154 people attended the meetings
Awareness on social schemes, FRA, MNREGA;
Demand for hand pump, land levelling, cow shelter, seed procurement

Results

Maize seed distributed to 45 people;
People knew the role of FRA for proceeding towards land development



Awareness camps

Objectives

Promote organic farming;
CFR implementation;
Biodiversity management

Inputs

Organic farming IEC material;
Coordination with Gram Sabha and Van Adhikar Samiti;
Fruit plants

Outputs

Awareness spread on organic farming and biodiversity conservation in the schools; Pomegranate, lime and guava saplings distributed to 90 people; 825 people participated from 8 villages; Groups include children and adult; people understood the importance of CFR.

Results

45 people preparing and applying milk mixture, cow dung mixture, cow urine; 3 CFR claims prepared and submitted to the Sub Divisional Committee; 7 under process; Plantation of the fruit trees



Capacity Building & Trainings



Objectives

Skill building; dry land farming measures; revive traditional agriculture; income enhancement; increase production

Inputs

Experts/trainers; demonstration units
IEC material on organic manure preparation

Outputs

9 trainings organised on - 2 Vegetable and Minor Millets cultivation; 1 Plant propagation; 2 Animal Husbandry A potential livelihood; 1 BMC orientation; 3 CFR;
245 people participated in the trainings



Results

People started practicing dryland farming practices to achieve sustainable agriculture; Bed cultivation, raised bed nursery, row sowing, inter cropping, minor millets and vegetable cultivation, organic farming



Grain Seed Bank =

Cross cutting themes

Traditional agriculture;
biodiversity conservation;
dryland farming



Objectives

Food security; ensure seed availability; nutrition and multi vitamin

Inputs

Seeds of finger millet and foxtail millet

Outputs

Maal and kangani seeds from 0.5 to 1 kg in 3 villages
Dhaikheda, Ghagri, Pavati;
33 women received the seeds;
Seeds were sown by 5 women who were provided the seeds earlier

Results

Production recorded as 1,5 kg from the 0.25 kg seeds sown; 33 women sown the seeds; 4.4 acre land area covered with plantation; Intercropping of kangani with maize; Nursery raising and row sowing of finger millet



Nutrition Garden =

Cross cutting themes

Biodiversity conservation;
dryland farming; livelihood;
risk mitigation



Objectives

Food security; ensure food availability; nutrition and multi vitamin

Inputs

Kharif seeds - Seeds of brinjal, chilli, tomato, cluster bean, spinach, coriander, bottle gourd, ridge gourd, bitter gourd, and bhindi good in Iron, ca, K, and vitamins; Rabi seeds Radish, carrot, mogari, beet root, spinach, coriander, cauliflower, cabbage, onion, pea.

Outputs

36 women received the vegetable seeds in Ghagri, Dhaikheda and Pavati
35 women sown the seeds from earlier stock

Results

INR 900 saved per month; 675 kg harvest from the 7 villages this year; 0.5 acre (current) fallow land utilized; Intercropping of bhindi and pumpkin with maize; Row sowing, nursery raising; application of ash, cow excreta, butter milk



BMC formation

Cross cutting themes
Community rights; collective management of natural resources; food security



Objectives

Documentation of CKR/PBR; biodiversity management; collective management of biological resources

Inputs

Trainings;
CKR orientation;
CFR training and Gram Sabha

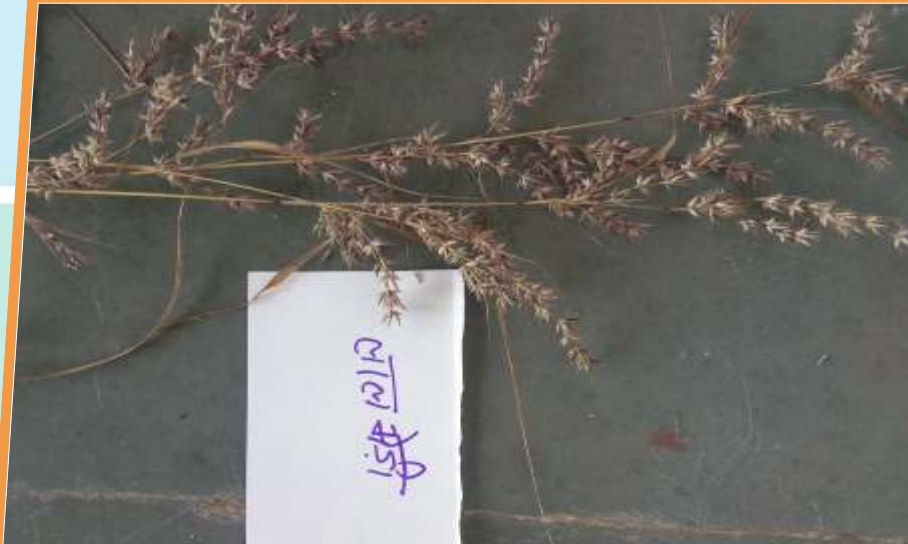
Outputs

7 BMCs formed in 7 villages Dhaikheda, Baran, Pavati, Ghagri, Panninal, Sarwani, Ven; 18 members
Contributed in development of CKRs based on trees, fodder grasses, medicinal plants and vegetables
CFR filling under process



Results

Understanding the role of biodiversity management;
Participation in CKR documentation;
CFR filling under process



Green House Nursery

Cross cutting themes

Climate Change; dry land farming; entrepreneurship; sustainable agriculture



Objectives

12 months seedlings availability; income enhancement; ensure plant cultivation during adverse weather

Inputs

Green House Nursery;
Vegetable protrays;
Packets

Outputs

15 Green house set up in 7 villages 2 Dhaikheda, 4 Pavati, 2 Ghagri, 1 Kalipol, 1 Khajoori, 1 Ven, 1 Panninal, 1 Sarwani, 1 Baran
Criteria based on the interest level, experience, land availability, members' decision

Results

Women earned INR 4,000 seasonal income from 5 GHNs by selling seedlings; Cucurbit cultivation; nursery of finger millet, pomegranate, lime, brinjal, chilli, tomato; Promotion of protray nursery raising and bed cultivation; 11 months nursery raising



SHG formation

Cross cutting themes

Human rights, women farmers; empowerment; livelihoods; risk mitigation



Objectives

Women empowerment;
Leadership;
decision making;
biodiversity management

Inputs

Capacity building on sustainable agriculture;
Benefits of SHGs and orientation;
Importance of food security and demonstrations;
Follow ups through participation method

Outputs

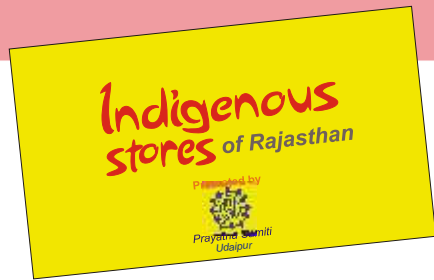
101 women members from 7 villages attended meetings;
108 meetings organised

Results

INR 19,410 loan leveraged for land levelling, wheat seed procurement, animal feed and health treatment
Understanding on dry land farming;
Importance of food security



Seed Fair



.Prayatna Samiti endeavours to conserve the indigenous crops by promoting their sale through Indigenous Stores of Rajasthan. The profits generated will encourage farmers to cultivate the indigenous crops, thus conserving the traditional practices. Production of such crops in other parts of the country will increase biodiversity and promote food security.

Items sold:

Maize, Wheat, Chick pea, Pearl Millet, Bhindi, Coilocasia, Air Potato, Safed Musli, Black gram, Cumin, Carom, Turmeric, Purple Yam, Yam, Coriander, Spinach.

