

CEAPRED'S CONTRIBUTION IN HORTICULTURE DEVELOPMENT OF NEPAL

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Institutional Objectives

- **Goal:** Participatory economic development by mobilizing and empowering local community in rural income generating enterprises.
- **Vision:** High, inclusive and sustainable rural and agricultural growth contributing to poverty alleviation and livelihood improvement of the poor in Nepal
- **Mission:** Widen improved, sustainable livelihood options for poor and disadvantaged communities in a gender-sensitive and environment-friendly manner
- **Promote** high-value agriculture based on local comparative advantages
- **Introduce** production technologies that safeguard human health and environment
- **Design** and deliver specialized package of development services with focus on targeting excluded and disadvantaged communities
- **Organize, train** and **institutionalize** local community actors so that development is locally owned, managed and sustained

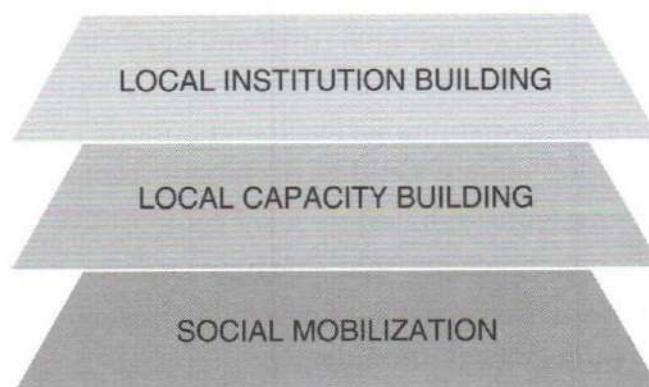
Guided by the above institutional vision, mission, goal and objectives

- CEAPRED has naturally placed **horticulture sector – especially fresh vegetables and vegetable seeds** - in its socio- economic development agenda since its establishment
- The beginning of its development initiatives was in fact on commercial fresh vegetable production along Dharan-Dhankuta Road Corridor (1992-94). Scaling up of Impacts still visible nationwide – as the Hallmark of CEAPRED.
- Another Hall mark has been establishment of viable pro-poor commercial vegetable seed value chain (2002-2014)
- These learning are now an integral part of CEAPRED's development programs. More recently, promotion of climate smart vegetable production.

Ceapred: Thematic Areas

Theme: 1	Poverty Reduction and Sustainable Livelihood Enhancement, Focused sub-sectors: <ul style="list-style-type: none"> • Fresh Vegetables • Vegetable Seeds • Livestock • Aquaculture • Off-farm Income Generating Activities
Theme: 2	Sustainable Ecosystem and Environmental Management <ul style="list-style-type: none"> • Sustainable Soil management • Integrated Pest Management • Organic Agriculture • Climate Smart Agriculture
Theme: 3	Action/Policy Research <ul style="list-style-type: none"> • Participatory Action Research on Agriculture, Food Security and Climate Change • Policy research and feedback to development partners • Resource farm management for new variety development.

CEAPRED has Three-pronged Implementation Strategy



Strategy and Outcome

Strategies	Outcomes
Social mobilization	Prepare the community to identify their development opportunities and priorities
Capacity building	Enable and empower community to implement the priorities
Local institution building	Group and cooperative registration and linking with concerned market and line agencies to sustain the impact

Remote Area Approach for Vegetable Seed Production

- Geographically remote where fresh vegetable marketing is difficult.
- High value low volume products
- Synergy with line agencies and local state (VDC/DDC)
- Partnering with value chain actors
- Pre-contracts with buyers (Seed companies, agro-vets)
- Primarily OP varieties.
- Collaborating with NARC/HRD for hybrid seed production
- Quality assurance through SQCC, DADO and seed labs

Highlight of Recent Programs with Special Interventions in Commercial Fresh Vegetable Production

1. UNNATI

- Duration: 2013 to 2015
- Donor: EC/CARE Nepal
- Districts: Sindhuli, Kavre

Major Achievements

- Market analysis, value chain mapping and women's empowerment in Agriculture (WEA) framework analysis
- Formed farmers' groups (1216HHs) and Cooperatives and CCs.
- Training (at least 50%) women on vegetable production, post harvest handling, processing and on marketing and business plan
- Safe vegetable production: 1600 Mt

2. Vegetable Seed Project

- Duration: 2002 to 2014
- Donor: SDC
- Districts: 16 hill districts of Nepal

Major Achievements

- Capacity development of more than 12000 hhs through 600 farmer groups and linked to cooperatives.
- 48 agriculture cooperatives established.
- Supported establishment of National level federation of seed cooperatives and strengthened capacity for truthful labeling of the seeds
- External Quality Assurance through SQCC, DADO and seed labs
- Meeting 14% national vegetable seed demand and 28% of total domestic production engaging small and poor farmers.
- 88% of HHs earned NRs 20,000-1,00,000 and 12% of HHs more than NRs 1,00,000 annually.

3. Agriculture Nutrition Extension Project (ANEP)

- Duration: 2012-2014
- Donor: EC
- Districts: Rupandehi and Nawalparasi

Achievements

- Group formation and training of farmers (3000 HHs) on new agricultural technologies.
- Develop linkages between Nepal seed producers and Bangladesh seed markets.
- Develop and train private service providers in new technologies.
- Develop and strengthen public and private institutions to extend new technologies utilizing market development approaches and the Participatory Market Chain Approach.

4. Horticulture CRSP

- Duration: 2011-2014
- Donor: USAID/IDE Nepal
- Districts: Kavre, Rukum

Achievements

- Build staff's capacity on bead technology.
- Conduct a study on effects of reduced seed moisture using bead technology on seed germination.
- Upscale the technology if the results are positive.

5. Integrated Pest Management-Collaborative Research Support Program (IPM-CRSP)

- Duration: 2012-2014
- Donor: USAID
- Districts: Lalitpur, Rupandehi

Achievements

- Development of IPM package for tomato, cauliflower, and cucumber for hills and cauliflower and bitter gourd for Terai district. Development of IPM technology package.
- Evaluation of non chemical IPM package for technology development.
- Different components of IPM package on three vegetable crops (cucumber, tomato, and cauliflower).
- Combined effect of bio-fertilizers and bio-pesticides was significantly higher in terms of yield and profit as compared to other treatments such as bio-fertilizers only, bio-pesticides only, farmer's practice and control.

6. Nepal Economic, Agriculture and Trade (NEAT)

Achievements

- Trained 45,439 producers, agro vets and traders in productivity training or business skills.
- Improved productivity on more than 6,000 hectares by 53% increase in productivity for lentil.
- Facilitated linkages between 11,738 farmers and larger firms.
- Established /upgraded 65 collection centers and built management capacity of 67 CCs.
- Facilitated the creation of a new national-level ginger association.
- Improved processing of lentils through a sorting machine resulting in a 50 percent increase in exports.

7. Poverty Alleviation Program

- Duration: 2006-2012
- Donor: PAF/Govt of Nepal
- Districts: Salahi, Dadeldhura, Doti, Baitadi

Achievements

- Prominent in building the capacity and social mobilization of the disadvantaged groups (more than 5000HHs)
- Increased income of pro-poor households by agriculture products.

8. Education for Income Generation (EIG)

- Duration: 2008-2012
- Donor: USAID/WI
- Districts: Surkhet, Pyuthan, Dailekh

Achievements

- Increase agricultural productivity and income generation
- Social mobilization of the targeted communities of program areas.
- Capacity building of disadvantaged youth's group and linking them to micro enterprises
- Strengthening institutional linkages
- Farmers directly benefited with 36 MT of fresh vegetable production

9. Pro-Poor Livelihood Program (PLP)

- Duration: 2009-2010, formerly LLP(2006-09)
- Donor: IFAD
- Districts: Surkhet, Dailekh, Salyan, Jajarkot and Kalikot

Achievements

- Households- 5183
- Economic Outcomes – average annual income of NRs 3450

- Improved Food Security
- Increased Income
- Commercialization of Farming

10. Nepal Smallholder Irrigation Market Initiatives (SIMI)

- Duration: 2003-2009
- Donor: USAID/WI
- District: Surkhet

Achievements

- Awareness creation
- Social mobilization
- Capacity building of enterprising groups
- Institutional development of newly formed cooperatives through training and human resource development
- Incomes of 61, 850 households by an average of US \$221 through the sale of vegetables.
- 2,422 production trainings conducted, 3,096 farmers' groups, 54 percent women participants.

11. WEPEP

- Duration: 2007-2010
- Donor: Embassy of Denmark
- District: Rautahat

Achievements

- Commercial vegetable production and supporting on lease land to landless HHs- key components of project.
- 718 Mt additional fresh vegetable production with income of NRs 6,932,635
- Average additional income of targeted HHs NRs 5651 annually.

12. Sustainable Livelihood Improvement Program

- Duration: 2003-2009
- Donor: Lutheran World Federation
- District: Lalitpur

Achievements

- 915 Mt of fresh vegetables sold and income generated of NRs 13,811,998
- The project has covered 691 HHs of which 352 are Dalit 149 Janjatis and 230 others.
- A total of 4171 farmers were trained in different topics such as group management, leadership development, vegetable production, livestock raising, etc that has strengthen the capacity of group members.
- Approximately 1475 Kg of vegetable seed were distributed to farmers in order to encourage them to take up vegetable farming for income generation.

Outreach As At July 2015

Indicators	Unit	As at Dec, 2011	As at June, 2013	As at June, 2015
Districts covered	No	60	60	60
Municipality	No	30	30	30
VDC Covered	No	924	987	1351
Households Covered	No	173098	183389	2,74,544
Dalit	No	38523	40987	54,211
Janjati	No	32329	34871	70,567
Other	No	102246	107531	1,49,766

Beneficiary Coverage as at July 2015

Indicators	Unit	As at Dec, 2011	As at June, 2013	As at June, 2015
CBO Registered	No	571	571	581
Female Member	No	11140	11140	11,246
Male Member	No	3652	3652	3,740
Total Member	No	14792	14792	14,986
Training Organized (Events)	No	18615	23764	46,711
Dalit Female Member	No	13814	23977	51,002
Janjati Female Member	No	16351	39083	158,507
Other Female Member	No	310915	339029	425,686
Dalit Male Member	No	10949	15546	24,933
Janjati Male Member	No	6674	35681	78,495
Other Male Member	No	179584	196341	245,729
Total Participants	No	538287	649657	9,84,325

Support to Infrastructure as at July 2015

Indicators	Unit	As at Dec, 2011	As at June, 2013	As at June, 2015
Micro-Irrigation	No	68580	71646	72,660
Culverts/Foot bridges	No	25	34	34
Cooperative/Collection Center	No	531	546	583
Micro-hydro power	No	9	10	10
Drinking water schemes	No	1344	1344	1,345
Animal sheds	No	2372	2507	2,521

Impacts in Household Incremental Income (As at July 2015)

- Fresh Vegetable Production – Rs. 6.54 b
- Vegetable Seeds – Rs. 470 million
- Livestock Production – Rs.180.2 million
- Non-Land Based Interventions – Rs. Rs.120 million