



ग्रामीण विकास बजार आयोजना
Market Access for Rural Development

(MARD/ Technical Assistant Team)

PROJECT COMPLETION REPORT

Kapilvastu District

MARD/Lumbini-Gandaki Technical Report No. 106

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HMG-USAID PROJECT

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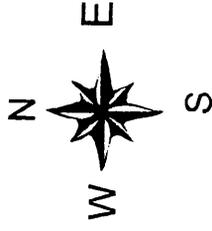
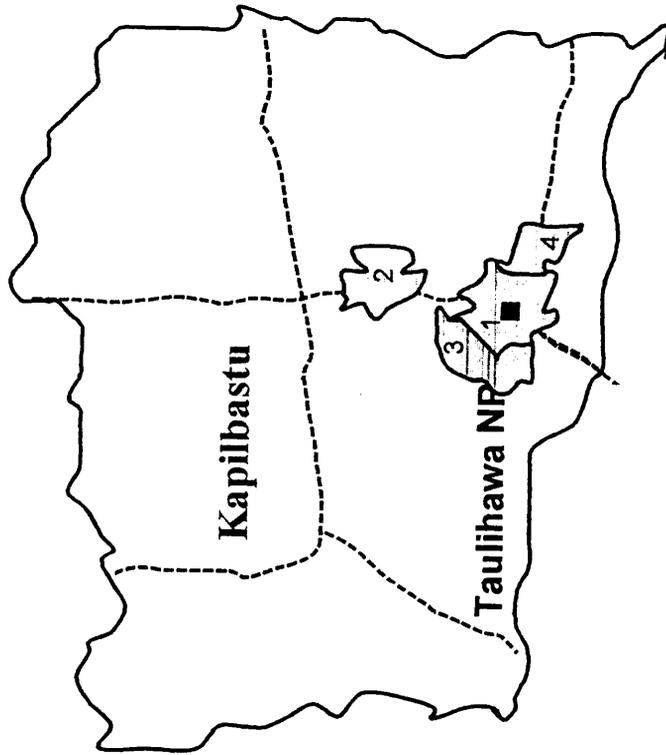
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KAPILBASTU DISTRICT

Pocket VDCs

1. Kapilbastu NP (Taulihawa NP)
2. Niglihawa
3. Dhankauli
4. Dohani



Legend

- Highway/metalled road
- District boundary
- MARD Pocket

10 0 10 20 Kilometers



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List of Acronyms

ARD	=	Agriculture and Rural Development
CTO	=	Cognizant Technical Officer
DADO	=	District Agriculture Development Office/Officer
DC	=	District Co-ordinator
FFD	=	Farmer Field Day
FG	=	Farmer Group
Ha	=	Hectare
HES	=	Horticulture Extension Specialist
HH	=	Household
HMG	=	His Majesty's Government
IPM	=	Integrated Paste Management
KG	=	Kitchen Garden
Kg	=	Kilogram
LA	=	Line Agency
M	=	Motivator
M&E TO	=	Monitoring and Evaluation Technical Officer
M&ES	=	Monitoring and Evaluation Specialist
MARD	=	Market Access for Rural Development
MG	=	Marketing Group
MS	=	Marketing Specialist
MT	=	Metric Ton
NC	=	Nutrition Co-ordinator
NGO	=	Non-government Organization
NP	=	Nagarpalika (Municipality)
NS	=	Nutrition Specialist
OFD	=	On-farm Demonstration
PC	=	Project Co-ordinator
PCO	=	Project Co-ordinator's Office
RDA	=	Regional Directorate of Agriculture
SES	=	Senior Extension Specialist
SMS	=	Subject Matter Specialist
STC	=	Short Term Consultant
TA	=	Technical Assistant
TDB	=	To be Decided
TL	=	Team Leader
TOM	=	Technical Officer Marketing
USAID/N	=	United States Agency for International Development/Nepal
VDC	=	Village Development Committee
W	=	Week
WRDA	=	Western Regional Director of Agriculture

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MARD TA Team/Kapilvastu.

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1. Background

The purpose of the Market Access for Rural Development Project (MARD/Rapti) is to increase sales of high-value agriculture products and improve nutrition status in the Rapti zone. But due to inadequate security in the Rapti zone, the MARD/Chemonics TA team was relocated to 6 new pockets in the Lumbini-Gandaki zone of the Western Development Region on September 1, 1998 to increase the sales of high-value agriculture products and improve nutrition status in those pockets.

USAID is assisting the Government of Nepal (GON) in the implementation of MARD/Lumbini-Gandaki by funding a Cost-Plus-Award-Fee contract for technical assistance, training, and equipment. Assistance is provided over a five-year period beginning April 1, 1997, for a total contract cost of \$3,653,761. The contract is based on performance rather than level of effort. The amount of the award fee is determined on an annual basis by USAID/ Nepal. The TA team is provided by the prime contractor, Chemonics International Inc (CI), and its partners, METCON Consultants (MC), No-Frills Consulting Co. (NF), the Nepali Technical Assistance Group (NTAG), University of California-Davis (UCD), International Executive Service Corps (IESC), and Volunteers in Overseas Co-operative Assistance (VOCA). CI is providing over-all leadership, administrative, and policy support. MC is leading local marketing development and production technical assistance. NF provides technical assistance in technology and improved agricultural extension. NTAG and UCD are associated in providing technical assistance for improved nutritional status monitoring and training. In addition, UCD is training and consulting in post harvest handling. IESC and VOCA are providing short-term technical assistance in agricultural production, processing, and distribution.

The GON is providing directional, monitoring, co-ordinating, and line agency TA support, as well as, field office and training space through the MARD Steering Committee, which directs the TA team, the MARD Project Coordination Office, and the Project area HMG rural development line agencies. The MARD Activity Coordinating Committee (MAAC) co-ordinates the interventions of TA team district coordinators and motivators, and HMG line agencies.

Interventions are organized into project components on market development, technology and improved extension services, improved nutrition status, and bottom-up planning and policy reform, in accordance with the MARD grant agreement between HMG and USAID. The market development and technology and improved extension services components support USAID/Nepal Strategic Objective 1.1, "increased sales of high-value agricultural commodities." The improved nutrition status component supports improved maternal and child health, through increased food-based vitamin A availability. The bottom-up planning, co-ordination and policy reform component supports both USAID strategic objectives through participatory approaches to transparency, public sector accountability, and private sector mobilization of resources. The interventions are implemented by the TA team and HMG line agencies in close collaboration with farm leaders, production marketing associations, NGOs, village development workers, and other relevant entities to support the project's main beneficiaries, the rural households of the Lumbini-Gandaki zone.

The project is managed by performance objective. The senior TA team member in each component takes leadership for developing the work activities in the respective component, and has the responsibility for completing those activities. The work activities are designed to

impact the performance plan output indicators for each component. Project components and performance indicators for project interventions are summarized as follows.

Performance Indicators by Component and USAID/Nepal Strategic Objective*

<p>Market development component (SO 1.1)</p> <ul style="list-style-type: none"> • Sales of high-value agricultural products in project areas • Farm households producing high-value agricultural and livestock commodities ** • Farmers producing high-value agricultural and livestock commodities ** • Percent of potato, tomato, cabbage, and cauliflower produced in project areas that is sold • Number of agro-vets operating in project areas 	<p>Technology and improved agriculture extension service component (SO 1.1)</p> <ul style="list-style-type: none"> • Hectares of potato, tomato, cabbage, and cauliflower harvested in project areas • Average yield of potato, tomato, cabbage, and cauliflower harvested in project areas • Farmers groups assisted in project areas
<p>Improved nutritional status component</p> <ul style="list-style-type: none"> • Nutritional practices that reduce the incidence of night blindness among pregnant/lactating women • Incidence of night blindness among pregnant/lactating women 	<p>Bottom-up planning & policy reform component (general support of all indicators)</p> <ul style="list-style-type: none"> • Represented by all project indicators

- These indicators are effective with Chemonics/MARD contract modification 1, dated June 23, 1999.

** Removed in the new proposed indicators submitted to USAID on January 10, 2000. It was approved on August, 2000.

2. Project Objective

- To increase sales of high-value agricultural commodities by promoting market expansion and participation of farmers and agro-entrepreneurs in high-value commodity production and marketing;
- To improve the nutritional status of farm households, particularly pregnant and lactating women and children under 60 months of age, by increasing household nutrition and improving household nutritional practices.

3. Project Components

- Market Development
- Technology and Improved Extension Service
- Improved Nutrition
- Bottom-up Planning, Coordination and Policy Issues
- Monitoring and Evaluation.

4. Project Strategies

A. Market Development:

- Provide market information to farmers;
- Upgrade market practices;
- Promote cooperative/ group marketing;
- Improve post harvest practice

- B. Technology and Improved Extension Services:
- Promote on high-value commodity technologies;
 - Focus on market led/ demand driven opportunities;
 - Emphasis on technology diffusion extension package;
 - Promotion of group building and capacity building of farmers group for its sustainable development ;
 - Promote on agro-entrepreneurs
- C. Improved Nutrition:
- Develop adequate household nutrition knowledge base through nutrition training;
 - Emphasis on Vitamin A rich quality food production for home use through kitchen garden;
 - Emphasis on food storage and preservation to cope with lean production period;
 - Nutrition household demonstration;
- D. Bottom-up Planning, Coordination and Policy Issues:
- Conduct pocket level bottom-up planning exercise;
 - Prioritize the issues;
 - Collaboration on policy studies, conferences.
- E. Monitoring and Evaluation:
- Monitor and evaluate MARD intervention/ programs to enhance project performance.

5. Demography of MARD Sites

Table 1: Demography of MARD Sites

Parameters	Kapilvastu Municipality	Dohani VDC	Niglihawa VDC	Dhankauli VDC	Total
Population	31081	8930	11340	7,412	58,763
Household	5231	860	1,650	1,123	8,864
HH Size	5.94	10.38	6.87	6.87	6.63
Cultivated land (Total)	1,119	1,115	2,035	1,082	5,361
Upland (ha)	112	34	7	136	289
Lowland (ha)	1,007	1,082	2,028	946	5,063
Farmer Group	8	8	8	8	32
Reg. Co-op.	1	1	1		3
Agro-vet	4				4

6. MARD Intervention Sites

Table 2: MARD Intervention Sites in Kapilvastu District

S.N.	VDC/NP	No. of Sites	Name of Sites/Ward	Remarks
1	Kapilvastu Municipality	8	Mahuwa, Patkhahawa, Sanobargadwa, (Sarwa, Gopalpur, *) (Sanodiha Patkhahawa, Lausha and Ramtalha **)	FY1998/1999
2	Dohani	8	Dohani-2, Kuwagoan, Bhagwanpur, (Dohani-1, Mainihawa-4, *) (Belhawa-6, Mainihawa-3, and Belhawa-5 **)	FY1998/1999
3	Niglihawa	7	Srinagar, Pachehara, Kewalpur/Jarlahia, (Birta, Jagdishpur, *) (Kusma and Tenuwa **)	FY1998/1999
4	Dhankauli	8	Dhaarampur, Bijgauri, Gagni, (Deupura, Shivpur/Harrahwa, *) (Malwa, Motinagar and Dhankauli **)	FY1998/1999
Total		31		

Note: * Sites included in MARD program during FY 1999/2000

** Sites included during FY 2000/2001

7. Status of Farmer Groups, Marketing Groups, NDHS and Agrovetts

Table 3 : Status of Farmer Groups in Kapilvastu District (As of December 31, 2001

S.N	Name and Address of the Group	Group Member			Estd. Date	Meeting Date	Welfare Fund (Rs.)	Remarks
		Male	Female	Total				
I	Kapilvastu Municipality							
1	Jaya Buddha Multipurpose Farmer Group, Mahuwa	13	2	15	Nov.5, 1998	26th day	16157	
2	Multipurpose Farmer Group (FG), Patkhahwa	13		13	Dec.10, 1998	5 th day	23258	
3	Fresh Vegetable Group, Sanobargadwa	14		14	Dec.9, 1998	1 st day	4112	
4	Multipurpose FG, Sarwa	10		10	July5, 1999	20 th day	6841	
5	Multipurpose FG, Gopalpur	17		17	July 26, 2000	6 th day	7791	
6	Durga Bhawani Multipurpose Farmer Group Sanodiha, Patkhahwa	10	3	13	March.26,2001	10 th day	6380	
7	Bhawani Multipurpose Farmer Group,Lausha	19	2	21	20 March,2001	12 th day	5455	
8	Trisakti Multipurpose FG, Ramtalha	11		11	30 July 2001	8 th day	4010	
	Sub-Total	107	7	114			74004	
II	Dohani VDC							
9	Multipurpose FG Dohani-2	14	5	19	11 Dec. '98	8 th day	12500	
10	Fresh Veg.Grp.Kuwagoan	12		12	11 Dec. '98	3 rd day	6007	
11	Fresh Veg.Grp.Bhagwanpur	9		9	11 Dec. '98	16 th day	6124	
12	Multipurpose FG Dohani-1	11		11	12 Aug. '99	15 th day	7300	
13	Multipurpose FG Mainihawa-4	10		10	27 th Sept. '2000	11 th day	7242	
14	Ramjanki Fresh Veg.Grp.Belahawa-6	11	4	15	26 March,2001	13 th day	5930	
15	Shiva Multipurpose FG,Mainihawa -3	11	2	13	27 March,2001	1 st day	5488	
16	TauleshwarNath Multipurpose MG Belahawa-5	10	1	11	31 July 2001	9 th day	2145	
	Sub-Total	88	12	100			52736	
III	Nigihawa VDC							
17	Fresh Vegetable Group, Srinagar	18	7	25	10 Dec. '98	5 th day	11160	
18	Fresh Vegetable Group, Pachehara	12		12	2053-4-24	6 th day	7895	

S.N	Name and Address of the Group	Group Member		Estd. Date	Meeting Date	Welfare Fund (Rs.)	Remarks
		Male	Female				
19	Kalimai Swablamban Samuha Kewalpur/Jarlahia	10	20	20 Aug.'98	15 th day	15987	
20	Shri RamSwablamban Samuha, Birta	8	16	30 Oct.'98	1 st day	17083	
21	Fresh Vegetable Group,Jagdishpur	12		31 July, 2000	7 th day	6563	
22	Laligurans Swablamban Samuha, Kusma	11	14	21 March 2001	2 nd day	8195	
23	Multipurpose FG, Tenuwa	15	1	26 March, 2001	12 th day	4995	
24	Durga Fresh Vegetable Group,Jagdishpur	16	1	24 July,2001	4 th day	2165	
	Sub- Total	102	59			74043	
IV	Dhankauli VDC						
25	Fresh Vegetable Group Dharampur	9	2	10 Dec.'98	21 th day	11296	
26	Fresh Vegetable Group,Bijgauri	12		9 Dec.'98	16 th day	8111	
27	Multipurpose FG,Gagani	10		9 Dec.'98	10 th day	4365	
28	Fresh Vegetable Group,Deupura	8		16 Aug.'99	14 th day	7271	
29	Multipurpose FG, Shivpur/Harrahawa	20		29 Sept.2000	25 th day	7265	
30	Maha Bishnu Fresh Vegetable Group, Malwa	13	3	14 March,2001	7 th day	7670	
31	Ram ghat Fresh Vegetable Group, Motinagar	18	2	21 March, 2001	5 th day	7945	
32	Ganesh Fresh Vegetable, Dhankauli	11	1	July 31,2001	8 th day	2655	
	Sub-Total	101	8			56578	
	Total	400	87			257361	

Table 4: Status of Marketing Groups in Kapilvastu District (As of December 31, 2001)

S.N.	Name and address of the group	Group member			Estd. Date	Meeting date	Welfare Fund (Rs)	Remarks
		Male	Female	Total				
1	Siddarth Tarkari Marketing Group	45	3	48	27 June 2000	26 th day	5020	
2	Nigali Tarkari Marketing Group	31	57	88	11 May 2000	17 th day	2500	
3	Dhankauli Tarkari Marketing Group	37		37	10 May 2000	28 th day	576	
TOTAL								173

Table 5: Status of Nutrition Demonstration Household in Kapilvastu District (as of Jan 2002)

SN	Name	Address	Established yr	Remarks
1	Chandra Mati Yadav	Niglihawa-9 Srinagar	FY 1998/1999	First year
2	Parmila Chaudhary	Dohani-2 Dohani	FY 1998/1999	First year
3	Bindibasini Murau	Kapilvastu NP, Mahuwa	FY 1998/1999	First year
4	KarmaDani Kewat	Dhankauli-8, Dharampur	FY 1998/1999	First year
5	Meru Nisha	Kapilvastu NP, Sarwa	FY 1999/2000	Second year
6	Ram Rati Kewat	Dhankauli-7, Deupura	FY 1999/2000	Second year
7	Indra Mati Yadav	Dohani-9, Bhagwanpur	FY 1999/2000	Second year
8	Jagura Kewat	Niglihawa-9, Pachehara	FY 1999/2000	Second year
9	Chetna Chaudhary	Kapilvastu NP, Gopalpur	FY 1999/2000	Third year
10	Chandra Mati Gupta	Dohani-1 Dohani	FY 1999/2000	Third year
11	Ram Rati Pashi	Niglihawa-4 Birta	FY 1999/2000	Third year
12	Israwati Kewat	Dhankauli-9, Motinagar	FY 1999/2000	Third year

Table 6: Status of Input Suppliers (Agro-vet) in Kapilvastu District

SN	Name of Input supplier (Agro-vet)	Location	Contact Person	Inputs Available
1.0	Kapilvastu Municipality			
1.1	Puja Agro-vet	Taulihawa	Dinesh Pandey (076-60452)	Seeds, Pesticides, & veterinary supplies
1.2	Gupta Beej Bhandar	Taulihawa	Durga P. Gupta (076-60171)	Seeds, Pesticides & fertilizers suppliers
1.3	Gulam Rasul Beejbhandar	Taulihawa (Mobile)	Kabrudinn (076-60048)	Seeds suppliers
1.4	J.K. Agro-vet	Taulihawa	Jaggu Kahar	Seeds and Pesticides suppliers

8. MAJOR ACCOMPLISHMENTS

Table 7: Project Sites During Project Period:

SN	Pocket VDC	Activities in Different Fiscal Year				Project Total
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02	
1	Kapilvastu Municipality	3	4	5	8	8
2	Dohani VDC	3	4	5	8	8
3	Niglihawa VDC	3	4	5	7	7
4	Dhankauli VDC	3	4	5	8	8
TOTAL		12	16	20	31	31

Table 8: Farmer Groups in Different Project years

SN	Pocket VDC	Activities in Different Fiscal Year				Project Total	Remarks
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02		
1	Kapilvastu NP	3	4	5	8	8	
2	Dohani VDC	3	4	5	8	8	
3	Niglihawa VDC	3	4	5	8	8	
4	Dhankauli VDC	3	4	5	8	8	
	TOTAL	12	16	20	32	32	

Table 9: Marketing Groups in Different Project Year

SN	Pocket VDC	Activities in Different Fiscal Year				Project Total	Remarks
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02		
1	Kapilvastu NP			1		1	
2	Dohani VDC						
3	Niglihawa VDC			1		1	
4	Dhankauli VDC			1		1	
	TOTAL			3		3	

Table 10: Nutrition Demonstration Household (NDH) in Different Project Year

SN	Pocket VDC	Activities in Different Fiscal Year				Project Total	Remarks
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02		
1	Kapilvastu NP	1	1	1		3	
2	Dohani VDC	1	1	1		3	
3	Niglihawa VDC	1	1	1		3	
4	Dhankauli VDC	1	1	1		3	
	TOTAL	4	4	4		12	

Table 11: On-Farm Demonstration (OFD) in Different Project Year

SN	OFD Crops	Activities in Different Fiscal Year				Project Total	Remarks
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02		
1	PCCT Crops	39	36	9	12	96	52.74%
2	Other Vegetables	41	23	8	0	72	39.56%
3	Fruits OFD	0	3	3		6	3.2%
4	Livestock OFD	2	6			8	4.39%
	OFD TOTAL	82	68	20	12	182	100 %

Table 12: On-Site Training in Different Project Year

SN	OST Crops/Subject	Activities in Different Fiscal Year				Project Total	Remarks
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02		
1	Vegetable	16(381)	24(616)	30(766)	22(606)	92(2369)	
2	IPM/ Soil Mgt.			1(30)		1(30)	
3	Livestock		1(10)			1(10)	
	TOTAL	16(381)	25(626)	31(796)	22(606)	94(2409)	

Table 13: Extension Activities in Different Project Year

SN	Extension Activities	Activities in Different Fiscal Year				Project Total
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02	
1	Farmers Field Day	6(278)	4(208)	8(276)		18 (762)
2	Observation Tour	1(11)	1(13)	1(6)		3 (30)
3	FG Mobilization			4 (173)	4 (139)	8 (312)
4	FG Competition			1		1
5	FG meeting/ Follow			180	130	310

Table 14: Nutrition Activities in Different Project Period

SN	Nutrition Activities	Activities in Different Fiscal Year				Project Total	Remarks
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02		
1	NDH Selection	4	4	4		12	
2	NET Training	8 (290)	13 (432)	4 (96)		25 (718)	
3	Kitchen Garden Training		1(9)	4(177)	25 (648)	30 (834)	
4	Nutrition Field Day		2 (57)	3 (124)		5 (181)	
5	Observation Tour			1 (6)		1 (6)	
6	Vit. A Rich Food Promotion Demonstration		12 (168)	9 (253)	4 (124)	25 (545)	
7	Hygiene and Sanitation Training		5 (80)	9 (253)		14 (333)	
8	Food Preservation & Storage		2	2 (90)		4	
9	Public Awareness			17 (147)		17 (147)	
10	Rural Poultry Construction of Low cost cage		2			2	
11	Distribution of Chicks		10			10	
12	Fact sheets distribution				200	200	

Table 15 : Bottom-Up Planning Workshop in Different Project Year

SN	Pocket VDC	Activities in Different Fiscal Year				Project Total	Remarks
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02		
1	Kapilvastu NP	2 (68)	1 (43)	1 (43)		4 (154)	
2	Dohani VDC	2 (81)	1 (38)	1 (36)		4 (155)	
3	Niglihawa VDC	2 (79)	1 (37)	1 (56)		4 (172)	
4	Dhankauli VDC	2 (73)	1 (39)	1 (40)		4 (152)	
	TOTAL	8 (301) +others 127=428	4 (157)	4 (175)		16 (633+127)=760	

Table 16: Group Marketing Strengthening in Different Project Year

SN	Marketing Activities	Activities in Different Fiscal Year				Project Total
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02	
1	Marketing Groups Formation			3		3
2	Coordination Meeting		18 (377)	3 (54)	2 (24)	23(455)
3	Weighing scale support			2		2
4	Other support to Marketing Group			4		4
5	Meeting with Marketing Groups			28	11	39
6	Marketing Group Competition			1		1
7	Marketing Extension Publication			4	1	5

Table 17: Market Information System in Different Project Year

SN		Activities in Different Fiscal Year				Project Total	Remarks
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02		
1	Price Information Board Installation	1	1			2	One By VDC
2	Price Collection and Dissemination	2/week	2/week	2/week		2/week	
3	Radio Price Broadcasting			5/week	5/week	5/week	
4	Update Price Board				1	1	

Table18: Marketing Skill/ Entrepreneurship Development Activities

SN	Marketing Training	Activities in Different Fiscal Year				Project Total
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02	
1	Group Marketing			3 (173)		3 (173)
2	Post Harvest Tech.			3 (82)	3 (70)	6 (152)
3	Record Keeping				1(4)	1(6)
4	Mkt. Management	1(4)				1(4)
5	Agro-Vet Licensing	1(4)	2(8)	1(5)	1(6)	5 (23)
6	Marketing Training for Staff 9 TA+LA)		2(8)			2(8)

Table 19: Marketing Tour/ Visits Activities

SN	Tour/ Visit Activities	Activities in Different Fiscal Year				Project Total
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02	
1	Market Linkage tours (Butwal, Narayanghat and, Pokhara, Bhairahawa)	1 (12)	1(16)	3 (61)	1(10)	6 (99)
2	Market Interaction Visit (Palpa, Rupandehi)		2 (25)	3(38)		5 (63)
3	Wholesale Trader's Field Visit/ Tour			1 (6)	1(5)	2(11)
4	Agro-Vet Linkage Tour				1(4)	1(4)
5	Post Harvest Loss Assessment Tour Kathmandu			1 (6)		1 (6)
6	Cross Border Tour				1(3)	1(3)

Table 20: Co-Ordination/ Linkage with DADO

SN		Activities in Different Fiscal Year				Project Total
		FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02	
1	Monthly Meeting with DADO			11	2	15
2	Monthly Status Report Submission			12	4	16
3	Technology Support to LA Pocket	As Needed	As Needed	Once/Week	Once/Week	Once/Week/As Needed
4	Joint Field Monitoring (LA+TA)			1		
5	Interaction Field Visit to LA Staff					

9. On-Farm Demonstration Results

Table 21: On-Farm Demonstration Results in Kapilvastu District

SN	HV Crop	Variety	Average yield (Mt/ha)			
			1998/99	1999/00	2000/01	2001/02*
1	Potato	NSI-7R	23.4	21.2		
		NSI-17	38.0	26.0		
		PM	20.3	23.0		
		Kufri Jyoti			24.1	
		Kufry Sinduri		31.2		
		Desire		22.8		
		Local		10.0		

SN	HV Crop	Variety	Average yield (Mt/ha)			
			1998/99	1999/00	2000/01	2001/02*
		NSI-1		24.7		
		NSI-12		26.7		
		NSI-6		24.2		
		NSI-3W		20.0		
		NSI-11		20.7		
		NSI-8		21.0		
2	Cauliflower	Serrano F1	27.7	24.2	17.5	
		Indam Early				
		Indam Katiki		12.5	9.5	
		Pusa Katiki		7.63	12.4	
		Ujawala	19.8	12.0		
		Tropical 45 days		8.4		
		Snow Crown				
		No. 71	15.9			
3	Cabbage	Green stone	45.0	47.1		
		T-621		39.9		
		Zennith	40.2			
4	Tomato	Nutan	72.0			
		Avinash -2	135.0			
		Ramya F1	93.0			
		Naveen	44.0			
		Manisha	77.0			
		Abhiman	48.6			
		Rupali	56.5	67.5		
		Naveen 2000+	60.0			
		Krishna	56.6			
		Menka	44.6			
		Karna	54.0			
		Rasmi	50.0			
		SC-1			53.76	
		Raxita		87.0		
		NS 815		461		
		Naveen		75.0		
5	Cucumber	Ponset	31.5		20.0	
		Mehyco Long green	42.0	17.5	13.3	
		Bansi local			20.0	
		Super Green		31.7	23.0	
		Kusle		10.5		
6	Zuchhini	Grey zuchhini	35.0	33.8		
		Fresh green	23.5			
7	Onion	Sun Rojo F1	63.5			
		N-53	36.6	37.0	36.1	
		Rojo		38.5		
8	Egg plant	Saurav	46.3	14.5		
		PPL		30.6		

SN	HV Crop	Variety	Average yield (Mt/ha)			
			1998/99	1999/00	2000/01	2001/02*
		Neelam Long		39.3		
9	Asparagush bean	BBT Long 8091	11.7	12.5		
		Kashmiri long		7.6	13.3	
10	Chilli	MHP 59	10.8			
		Tejeswani	9.5			
11	Maize	Pioneer-3056	13.7			
		Bioseed-8196	11.0			
12	Okra	Bhindi # 8	22.0			
		P.Kranti	22.8			
		Arka 4	22.5			
		Sagun		19.1	30.0	
		Barsa			30.0	
		Safari			30.0	
		Bhindi #12			15.0	
		Arka anamik		15.3		
13	Ridge Gourd	Suprya	29.0			
14	Sponge Gourd	White Long	33.0			
15	Pea	Arkel	7.8 GP			
		Azad	9.3			
16	Bitter gourd	Jaun puri long	29.8			
		Faisabadi	26.5			
		Jhalary		10.8		
17	Bottle gourd	Pusa Naveen	113.0			
		Ganesh	102.5			
18	Berseem			150.0		
19	Oat			42.5		

* Crops in the field.

Note: OFD procedure changed and provided only seeds and technical advice to cover more farmers from the given OFD budget.

10. Problems Identified/Prioritized in HVC

I. Production Problems

Potato

- Late blight
- Wilt
- Quality seed
- Virus

- High cost of seed
- Lack of cold storage

Cauliflower

- Damping off
- Stalk rot
- Nursery management problems during rainy season
- Micronutrient deficiency
- Cut worm
- Lack of quality seed
- Lack of Technical knowledge

Cabbage

- Micronutrient deficiency
- Head bursting

Tomato

- Low temperature
- Late blight
- Wilt
- Damping off
- Fruit Borer
- Lack of technical know how
- Lack of quality seed
- Virus Disease
- Flower /Fruit dropping
- Micro nutrient deficiency

Okra

- Yellow Vein Mosaic
- Borers

Bitter gourd

- Mosaic
- Bugs

Cucumber

- Red pumpkin beetle
- Powdery and Downy mildew
- Fruit fly
- Virus
- Lack of quality seed

- Bitter taste
- Lack of technical know-how

Radish

- Lack of quality seed
- Alternaria
- Micronutrient deficiency

Chilli

- No fruiting
- Little leaf
- Leaf curl

II. Open Grazing system during dry season

III. Marketing problem

- Very low price during peak season
- Lack of cold storage problem
- No organized market at Taulihawa
- Transport problem specially for Dhankauli VDC during rainy-season

11. MAJOR Project Impact

I. Market Development

A. Group Marketing Strengthening

• Formation of Marketing groups (MG)

- Three marketing groups formed at Kapilvastu Municipality, Mahuwa (Siddartha Tarkari MG 27 June) Dhankauli Tarkari MG at Dharampur (10 May) and Nigali Tarkari MG (11 May, 2000) from 10 FG with 235 Participants. Promotion of FG in marketing activities shown encouraging results and all activities confined to knowledge skill transfer.
- Arrangement of site (of 35' x 15' area) and construction of sales-stall completed at Taulihawa and Jagdishpur haat bazaar by MG. This was preceded by several sessions of negotiation among Siddartha MG, Nigali MG members Mr. Ram Das Gupta Mayor of KNP, M.r. Abdul Rasid Khan Vice chairman of Nigalihawa VDC, Haat bazaar contractors and MARD/TA staff MS, DC and Motivators.
- Siddartha MG of KNP effectively gathered farmers produces (specially Tomato), graded and sold after group bargaining. They jointly hired

tractor to transport groups produces to different markets including Taulihawa, Maharangunj, Butwal, Gajehara, and Indian border markets like Khunuwa, Mahatha, etc

- Quantity of vegetables produced /sold ,increased from 954 Mt. valued Rs 381570 in 1999-2000 to 1315 Mt. Valued Rs. 7450330 in 2000-2001, an area under vegetables increased from 112 Ha to 152 Ha. in the same period.
- Meeting with Marketing Groups Total of 24 marketing group meeting conducted.

B. Market Information

- Regular price information communicated. Regular market price information are supplied twice a week by the team and written in the PIB board for communication to the farmers.
- **Establishment of New Agro-vets**
 - Two agro-vets added in the project areas. Increase in vegetables cultivation areas has led to significant increase in Agro-vet seeds/pesticides/fertilizers selling a worth of Rs 2060000 of four Agro-vets operating in the Project areas. This year vegetables seeds sold about 3200 kg a worth of Rs. 1200000.
- **Strengthening linkages with outer markets**
 - A total of 6 market linkages and Interaction Tours/Visits were organized participated by 95 marketing group members
 - Commercial producers of Kapilvastu have become familiar with commercial producers of Madan Pokhra Palpa and commission agents of wholesales market at Butwal.,Kathmandu, Narayanghat, Bhairahawa, Pokhara etc.
 - Kapilvastu farmers MGs are now capable to send their extra produce at different markets.
 - These tours encouraged farmers to increase production and adopt improved technology package provided by the Project.

II. Improved Technology and Extension Services

- Promotion of off the shelf high yielding hybrids and where hybrids are not available use of selected open pollinated varieties in HVC through well managed OFD in an intensive manner has led to increased productivity and increased income.
- Except OFD, Field Training, Farmers Field days and Field tour MARD TA Team does not provide any subsidy items to FGs, MGs.

- Promotion of group production activities through increased follow-up support (Training and FFD) has led to increased diffusion and adoption of HVC technology packages.
- Approximately 50% of our efforts on production marketing is on PCCT because of its 70% value in the local and regional market and remaining efforts is on other 8-10 HVCs.
- A total of 182 OFD (Vegetables 168, Fruits 6 and livestock 8) conducted.
- On-Site Training: The main objective of this training was to train the farmers group in their site, so as to upgrade their technical knowledge and their skills in improved production packages and practices of early season tomato, cauliflower, cabbage and potato. A total of 96OST conducted on major vegetables crop with 2481 farmers participants and one in poultry with 10 participants
 - Trainees were made familiar with Nursery management through used of Bavistin for a soil drenching and line sowing. and packages and practices of different vegetables.
 - To solve the problems encountered with different pests and diseases, and cultivation practices of tomato, cauliflower, cabbage and potato.
 - Trainees were focused to know the information about the reasons of diseases/insects their symptoms, diagnosis and procedure of control measures.
- **Group Mobilization Training**
 - The main objective of this training was to learn about the definition of groups, importance, types, their rules and regulation, function of the group and how to strengthen and mobilized in their locality. A total of 8 Group mobilization training were conducted 312 participants.
- **Meetings**
 - Group regular meeting started: A total of 310 regular group monthly meeting were attended by TA Team (DC and Motivators)
 - Group monthly fee collected: A Regular group monthly fee are collected in all groups.
 - Group welfare funds are mobilized: A Group welfare were properly utilized for buying agricultural inputs and also for loan.
 - Field problems are discussed and solved in the meeting.
 - Group seeds and pesticides buying started with Bishambherpur/Patkahawa, Gopalpur, Mahuwa, Bijgauri and Birta group

- **Tour**
 - One Technology Observation Tour Visits was completed with 6 participants. The main objective of this tour was to provide wider exposure of high value technologies to farmers so that they could adopt new appropriate technology.
- ***New group formed***
 - A total of twelve new groups formed to increased the number of groups in pocket VDC to support production and marketing of high value commodities.
- ***Site profile and farmer group profile updated:***
 - A total of 56 site profile and 56 farmer's group profile updated in the month of July 2001.

III. Improved Nutrition

- MARD has change effectively increased nutrition status through a combination of Kitchen Garden and Nutrition Education Training. Participation in MARD training is the best indicator of improved knowledge and behavior.
- More MARD households show improved nutrition knowledge
- MARD households have improved nutrition behaviors.
- MARD households have improved nutrition status
 - Rate of night blindness in previous pregnancy was lower in MARD households.
 - Measurement of upper arm circumference was significantly higher in MARD households and percent wasted was lower.
- MARD households produced and consume more recommended micronutrient Vit. A rich vegetables.

12. Major Changes/Success

Case study one example

Multipurpose FG Patkhahawa, KNP-13

- In the beginning, FG's total sale of vegetable was worth Rs 3000 only (1998)
- Group formed in December 1998 by TA TEAM with 16 members
- Group fund generated is now Rs 24000
- Area under vegetable changed from 1.5 ha. to about 12 ha. increased by 8 times.
- Out of which, tomato covered 3 ha. 2000-2001 and tomato sold was 72.5 Mt. a worth of Rs.732500 total vegetables sold Rs 918500
- FG is actively involved in MG selling produce at its own marketing stall at Taulihawa, and also selling to Butwal and Indian boarder towns
- Increased in HVC area from 112 to 152 ha.

- Increased in HVC production from 954 Mt. to 1315 Mt.
- Increased in HVC sales from Rs 381570 to 7450330
- Change in the planting time- Early and late planting of tomato, cauliflower, cabbage, potato, okra, cucumber, and onion etc.
- Varietal changes from self pollinated to hybrids like tomato (Ramya, Naveen, Raxita, SC-1, SC-3, Manisha,) Cauliflower (Indam early, Serrano, Swati, Snow crown,), Cabbage (Zennith, T-621, Green coronet, Green stone), Cucumber (Mehyco long green, Super green), Okra (Sagun, Sun 040, Bhindi # 8, 12), Egg plant (Saurav), Onion (Sun rojo, NRN-53) etc.
- Example 3 packets Ramya tomato in 1998 to 600 packets in 2001
- Technology diffusion in non MARD VDCs- Gothihawa, Bedauli, Talaurakot, Dharampania, Labani, Jahadi, Kopwa, Mahendrakot, Gajehara, Basnganga, Budhhi, Maharajgunj, Shibpur VDCs etc.
- Increased income helped farmers to:
 - ▶ Constructed house/building at Patkhahawa (KNP-13), Srinagar (Niglihawa VDC-9)
 - ▶ Take land on lease basis for HVC farming.
 - ▶ Purchase additional land
 - ▶ Developed small irrigation systems like tradle pump, hand pumps, bought pump engine etc.
 - ▶ Improved life style

12. Lesson Learned from the Completed Activities

I. Market Development

- Market price information collection and dissemination helps in rapid increased in production.
- Regular price information collection and dissemination is the key element of increased production and income of beneficiaries. Strengthening of this process among producer were rapidly help in the increased production of HVPs.

II. Technology and Improved Agriculture Extension Services

- Successful on-farm demonstration are key to rapid adoption of increased production technology.
 - Successful demonstrations have motivated the beneficiaries in the rapid adoption of high production technologies and huge demand of the technologies are in the process. Timely supply and follow-up will be the key to success in the future.
- On-site training are the backbone in changing the decision making towards adoption of increased production technology.
 - On-site training are the major key in changing the behavioral complex of beneficiaries towards adoption of increased production technologies. Well planned packaged and managed training will be the focal point in changing the decision making of farmers.

III. Improved Nutrition Status

- Nutrition education trainings are the key element in changing in the decision making towards adoption of increased nutritional practices.
 - NET have motivated the beneficiaries in the rapid adoption of nutritious food. Well planned, packaged and practical trainings benefited the under nutritional pregnant/lactating mothers.
 - **MARD has change effectively increased nutrition status through a combination of Kitchen Garden and Nutrition Education Training. Participation in MARD training is the best indicator of improved knowledge and behavior.**

IV. Bottom-up Planning and Policy Reform

- Participatory development planning process is key to sustainable development. Participatory development planning ensures confidence to development beneficiaries in achieving the development target through confidence building, capability building and management of planned activities.

13. Conclusion/Recommendation

MARD has improved the knowledge in Nursery management of production groups, provided skill development training in production marketing, group marketing, seed management from Agro-vet developed linkages between whole sellers at Butwal, Narayanghat, Pokhara and Kathmandu.

MARD has also improved the knowledge on different hybrids vegetables and increased the area by 30% in PCCT and others vegetables by 43%, and productivity from 10.55 Mt./ ha. (1998/1999) to 22.95 Mt./ha. (2001/2002).

MARD has change effectively increased nutrition status through a combination of Kitchen Garden and Nutrition Education Training. Participation in MARD training is the best indicator of improved knowledge and behavior. Farmers group, marketing groups and nutrition demonstration household should be supported by LA's and others organizations to strengthen their areas and sales in HVC production and marketing.

Major Project Activities Accomplished in Kapilvastu District

S.N.	Major Program/ Activities by Components	Unit	Project Target during 4 years	Achievements during Project Period				Total 4 years Progress	Remarks
				FY 1998/99	FY 1999/00	FY 2000/01	FY 2001/02		
I.	MARKET DEVELOPMENT PROGRAM								
	1. Group Marketing Strengthening								
	1.1 Formation of Marketing Groups from FGs	No.	3			3		3	
	1.2 Marketing meeting								
	1.2.1 Meeting with Marketing Groups	No.	41			28	13	41	
	1.2.2 Coordination meeting (marketing groups, wholesaler, transporter, VDC officials, and LA)	No.	23		18 (377)	3 (54)	2(24)	23(455)	
	1.3 Marketing group competition (project level)	No.	2			1		1	
	1.4 Marketing extension material to MGs	set	5			4	1	5	
	2. Market Outlet Development								
	2.1 Weighing scale set to MG for Sale stall / collection point operation	set	3			2		2	
	2.2 Other support to MGs (Plastic sheets/ tin box/ logo/ letter pad/ boards/calculator/ registration etc.)	No.	3				2	2	
	3. Market Information System								
	3.1 Installation price information board	No.	2	1	1			2	
	3.2 Collection and dissemination of price	time	2/week	2/week	2/week	2/week		2/week	
	3.3 Radio broadcasting of price	time	5/week			5/week	5/week	5/week	
	3.4 Update PIBs	No.	2			1	1	2	
	4. Marketing skill/ entrepreneurship development (Marketing Training)								
	4.1 Group marketing training (district level)	No.	3			3(173)		3(173)	district level
	4.2 Post harvest technology training (district level)	No.	6			3(82)	3 (70)	6(152)	district level
	4.3 Record keeping training for MGs (project level)	No.	1				1(4)	1(4)	Project level
	4.4 Marketing management training for MGs	No.	1	1(4)				1(4)	Project level
	4.5 Market management training for LA+TA	No.	1		2(8)			2(8)	
	4.6 Agro-vet licensing training (project level)	No.	5	1(4)	2(8)	1(5)	1(6)	5(23)	Project level
	5. Strengthening linkage with larger markets								
	5.1 Market linkage tour (market interaction/ linkage tour/ post harvest loss assessment tour) district level	No.	7	1(12)	1(16)	4(67)	1(10)	7(105)	
	5.2 Marketing groups/ traders workshop and field visit (project level)	No.	1			1(7)		1(7)	
	5.3 Agro-vet linkage tour (project level)	No.	2				1(4)	1(4)	

Annex-1 (contd..)

S.N.	Major Program/ Activities by Components	Unit	Project Target during 4 years	Achievements during Project Period				Total 4 years Progress	Remarks
II.	TECHNOLOGY AND IMPROVED EXTENSION								
	1. On-Farm Demonstration (OFD)								
	1.1 Vegetables								
	1.1.1 Potato	No.	16	7	7	2		16	
	1.1.2 Cauliflower	No.	27	12	13	2		27	
	1.1.3 Cabbage	No.	15	6	4	1	4	15	
	1.1.4 Tomato	No.	38	14	12	4	8	38	
	PCCT Total	No.	96	39	36	9	12	96	
	1.1.5 Cucumber	No.	9	4	3	2		9	
	1.1.6 Egg plant	No.	7	3	4			7	
	1.1.7 Onion	No.	17	13	4			17	
	1.1.8 Zucchini	No.	2	2				2	
	1.1.9 Chilli	No.	4	4				4	
	1.1.10 Hybrid Maize	No.	1	1				1	
	1.1.11 Pea	No.	2	2				2	
	1.1.12 Okra	No.	9	4	3	2		9	
	1.1.13 French bean		4		4			4	
	1.1.14 Asparagus bean	No.	6	2	2	2		6	
	1.1.15 Radish	No.	4		4			4	
	1.1.16 Bitter gourd	No.	5	2	3			5	
	1.1.17 Bottle gourd	No.	1	1				1	
	1.1.18 Sponge gourd	No.	1	1				1	
	1.1.19 Papay fruit	No.	4			3	1	4	
	1.1.20 Banana fruit	No.	2				2	2	
	Vegetable OFD TOTAL	No.	174	78	63	18	15	174	
	1.2 Livestock OFD	No.	8	2	6			8	
	OFD Grand TOTAL	No.	182	78	65	18	15	182	
	2 On-site Training (OST)								
	2.1 Vegetable crop	No.	102	16 (381)	24 (616)	30 (766)	32(808)	102 (2571)	
	2.2 IPM cucumber	No.	1			1(30)		1 (30)	
	2.4 Micro nutrient	No.	4				4 (92)	4 (92)	
	2.5 Seed production	No.	0						
	2.6 Soil management (EM/pH)	No.	1				1 (16)	1 (16)	
	2.7 Post harvest handling	No.	6			3(82)	3 (70)	6 (152)	
	2.8 IPM specialized training	No.							
	Crop OST Total	No.	114	16 (381)	24 (616)	34 (878)	40(986)	114(2861)	
	2.8 Livestock OST Total	No.	1		1(10)			1(10)	
	OST Grand Total	No.	115	16 (381)	25(626)	34 (878)	40 (986)	115 (2871)	

Annex-1 (contd..)

S.N.	Major Program/ Activities by Components	Unit	Project Target during 4 years	Achievements during Project Period				Total 4 years Progress	Remarks
	3. Farmer Field Day (FFD)	No.	18	6 (278)	4 (208)	8 (276)		18 (762)	
	4. Observation Tour (Inter district)	No.	4	1 (11)	1 (13)	1 (6)	1(10)	4 (40)	
	5. Group Mobilization								
	5.1 Farmer groups in TA pocket	No.		5(50)	20	30		100	
	5.2 FG mobilization training	No.	8			4 (173)	4 (139)	8 (312)	
	5.3 Attending FG meeting	No.	310			180	130	310	
	5.4 FG competition (district level)	No.	2			1		1	
	6. Fact sheets on Technology	No.	5				5	5	
	7. Profile updating								
	7.1 Site profile	No.	56	12	16	28		56	
	7.2 Group profile	No.	88	12	16	28	32	88	
	7.3 Agro-Vet/ cooperative (VDC level)	No.	4	2	3	4		4	
	7.4 VDC profile	No.	4	4				4	
	8. Technology upgrading training to Agro-input suppliers (project level)	No.	1				1 (6)	1 (6)	
III.	NUTRITION IMPROVEMENT								
	1. New NDH Selection	No.	12	4	4	4	0	12	
	1.2 NDH follow-up	No.	12	4	4	4	0	12	
	2. Training								
	2.1 Nutrition Education training (NET)	No.	25	8(290)	13 (432)	4 (96)		25 (818)	
	2.2 kitchen garden training	No.	30		1(9)	4(177)	25 (648)	30 (834)	
	2.3 Nutrition Field Day (NFD)	No.	2		2 (57)	3 (124)		5(662)	
	3. NCAP activities								
	3.1 Nutrition training on Vitamin A / hygiene & sanitation/ recipe demo./ food preservation)	No.	43		19 (240)	20 (596)	4 (124)	43 (960)	
	3.2 Rural poultry and construction of low cost cage	No.			2			2	
	3.3 Distribution of chicks	No.			10			10	
	3.4. Public Awareness	No.				17 (147)		17 (147)	
	3.5 Nutrition awareness training for influential groups (VDC/ school/local institutions/ agro-vet)	No.	4						
	5. Nutrition Observation tour (project level)	No.	2			1(5)		1(5)	
	6. Project level training								
	6.1 NCAP/ nutrition training for motivators	No.	1				1 (4)	1(4)	

(contd..) Annex-1

S.N.	Major Program/ Activities by Components	Unit	Project Target during 4 years	Achievements during Project Period			Total 4 years Progress	Remarks
IV.	BOTTOM-UP PLANNING, COORDINATION AND POLICY ISSUES							
	1. Bottom-up Planning:							
	1.1.1 Bottom-up Planning Workshop	No.	16	8 (428)	4 (157)	4 (175)	16 (760)	
	2. Coordination							
	2.1 District level Coordination							
	2.1.1 Monthly Meeting with LA	No.	15			11	4	15
	2.1.2 Monthly progress report to LA	No.	16			12	4	16
	2.1.3 Technology Support to LA (FG-MG strengthening/ technology support/ MIS)	No.	As need			Once/week	As need	
	2.1.4 Wrap-up closing workshop	No.	1				1 (71)	1 (71)
	2.1.5 Joint monitoring (LA+TA)	No.	5				1	1
	2.2 Project level Coordination							
	2.2.1 Interaction tour/ Visits to LA	No.						
	2.2.1.1 Hill Districts	No.	1					
	2.2.1.2 Tarai districts	No.	1				1 (21)	1 (21)
	2.2.2 VIP observation tour to project's pocket activities	No.	3		1	1	1 (5)	0
	3. Training							
	3.1 Computer refresher training for LA	No.	2			1	1	2
	3.2 Computer refresher training for TA	No.	1					
	3.3 PRA/ RRA training to LA	No.	1					
	4. Workshop							
	4.1 Project start-up workshop	No.	1	1(6)				1(6)
	4.2 MARD district level workshop	No.	2			1 (79)		1 (79)
	4.3 Third national seed seminar/ workshop	No.	1				1	1
	4.4 Joint Project annual review workshop by TA+PCO	No.	1				1	1
	4.5 Marketing workshop by TA+PCO	No.						
	4.6 Project impact assessment workshop by TA team/PCO	No.	1					
	4.7 Nutrition workshop	No.						
	5. Project activities' Audio-Visual preparation and broadcasting	No.	1				1	1

Project Activities Completed in Pyuthan District

MARD TA Team identified three production pockets: Bijuwar (5 VDC's), Devisthan 5 VDC's) and Machhi (6 VDC's) with 49 sites. A total of 74 farmers groups with 806 house hold members (male-507 and female-299 = 806).

Table 1: MARD TA team Identified three production centers with following VDC's

S.N.	Production Centres	VDC's	Remarks
01	Bijuwar	Bijuwar	Road access
		Dharmawati	Road access
		Khaira	Road access
		Maghkot	
		Bijaya nagar	Road access
02	Devisthan	Bangesal	Road access
		Nanyagoan	Road access
		Gothibang	Road access
		Bhingri	Road access
		Dhungegadhi	Road access
03	Machhi	Maranthana	
		Torbang	
		Okharkot	
		Badikot	
		Tussara	
		Libang	

I. Market Development

- One Adhoc committee was formed at Bhingri in consultation with VDC chairman, local traders, producers and Government official. One final committee and two sub-committee were formed at Bijuwar to open new Haatbazar.
- With continuous effort and in consultation with MARD MS, VDC chairman, local traders and farmers group members decision made to open a Haatbazar. A new Haatbazar was opened at Bijuwar, Pyuthan on 17 October, 1997.
- Three Agro-vet centers have been identified with MARD TA activities (Bhandari Agro-vet, Bijuwar, Bikalp Agro-vet, Machhi, and Prithivi Beej Bhandar Surya Nagar)
- Two leaders farmers and one agro-vet personnel participated in Indian market tour 9-25 April 1998.
- Five persons from Pyuthan three farmers, One LA staff and one Motivator is participated in production and marketing tour in Nepal 24 Feb.-10 March, 1998.

II. Improved Technology and Extension Services

On-Farm Demonstration:

- A total of 110 OFD's conducted in (Bijuwar-49, Machhi-20 and Devisthan-41) production pockets in different crops.

- Three chickpea varieties were conducted in OFD in six sites. Sowing was done 25 Oct.-8 Dec. 1997. More than 200 farmers from within and outside district visited in Nayagoan and Gothibang VDC's. Because of yield and adoption of chickpea Koseli variety would diffused in many sites. Farm gate price of Koseli Variety is found higher than deshi Variety.
- Four lentil varieties demonstrated in nine sites where about 200 farmers and visitors observed in Nayagoan and Lamachaur sites. Simrik and LG 198 were preferred by farmers.
- Four bush types cowpea varieties demonstrated in seven sites during August-September 1997. Prakash variety diffused in 3 hectares.
- Tori Bikash is demonstrated in compared with best local tori in Nayagoan VDC. Bikash tori was preferred by many farmers and visitors.
- Three main season cauliflower varieties demonstrated in four sites. Kathmandu local is best for taste and, Early Snowball is liked by Salyan and Dang Farmers visited in Nayagoan and Tari sites.
- Indam early and Snow crown cauliflowers is demonstrated in four sites. Indam early yielded 17 Mt./ha., and Snow crown performed better in two seasons.
- Five cabbage varieties demonstrated in three sites. Green-Stone preferred by many farmers due to its earliness.
- A total of 6 potato varieties demonstrated in two sites. NSI-6 and PM liked by many farmers. Two tuber-lets varieties demonstrated in three sites. This type of potato would be very useful in high hills where transportation is problems.

Trainings/Tours

- Three motivators are selected for three production centers. They were trained by TA team at Tulsipur, Dang
- A five days leaders farmers training conducted with 23 farmers at Bijuwar
- Two leader farmers were participated in Agro-entrepreneurs training conducted at Lalmatya Dang
- A total of six training conducted at farmers level with 90 participants
- Inter District tour from Salyan with 17 farmers (male 13 and female 4) and Dang with 22 farmers (male 17 female 5) and DC, motivators and OJT's were visited successful program at Dharamawati, Tikuri, Tari, Gothibang and Bhingri areas.
- Two days Intra district tour program was also organized in Pyuthan with 38 participants

III Nutrition Improvement

- One focus group discussion was made with 34 participants
- A total of three Nutrition Education Training is conducted with 68 participants

IV Bottom-Up Planning (BuP) Coordination and Policy Issues

- Three BuP workshops were conducted with 165 participants in 16-18 January 1998.
- Monthly meeting with LA's 8 times.
- Meeting with Farmers group Several times.
- HMG high official visit to Pyuthan in March 1998.
- Performance Review Team visit to Pyuthan in April 1998