

**ग्रामीण विकास बजार आयोजना**  
**Market Access for Rural Development**

(MARD/ Technical Assistant Team)

**PROJECT COMPLETION REPORT**

**Nawalparasi District**

**MARD/Lumbini-Gandaki Technical Report No. 104**

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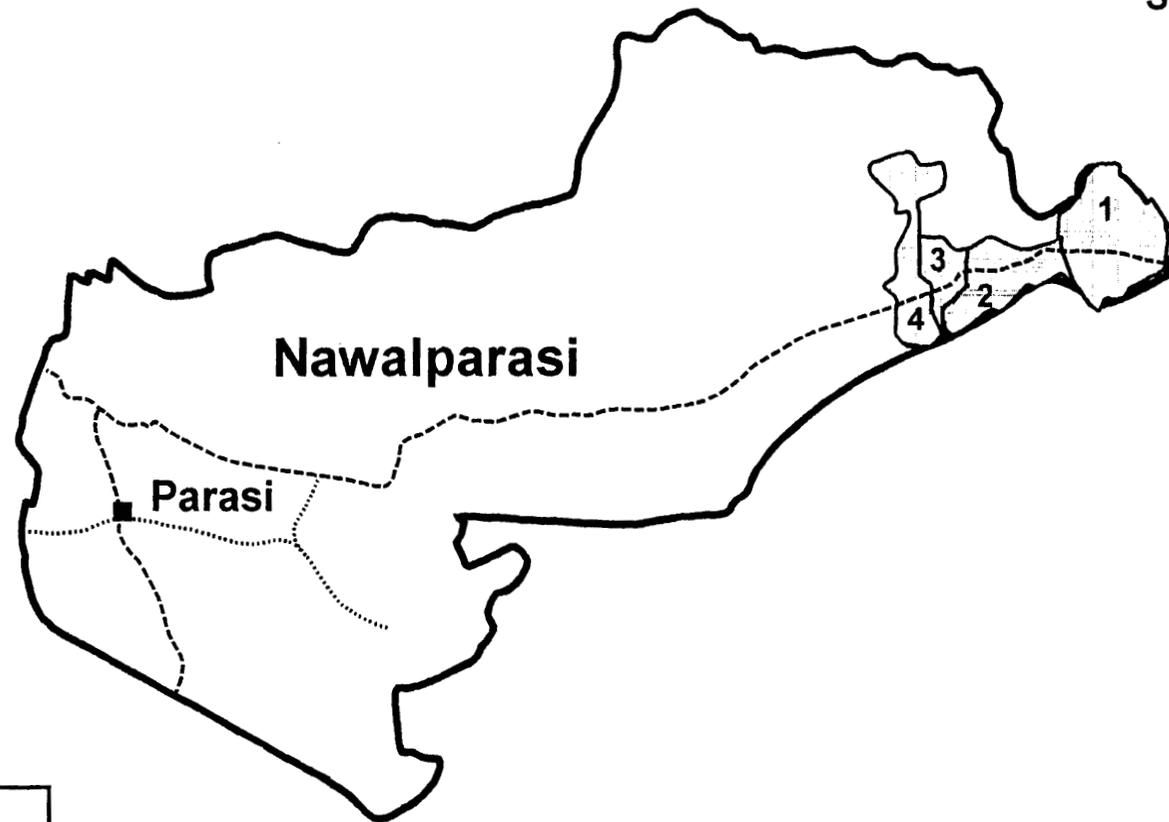


# NAWALPARASI DISTRICT



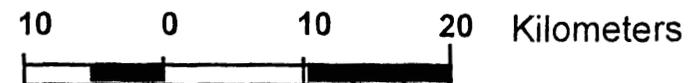
## Pocket VDCs

1. Gaiindakot
2. Mukundapur
3. Amarapuri
4. Rajahar



## Legend

- Highway/metalled road
- ..... Gravelled road
- District boundary
- MARD pocket





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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



## **Acknowledgement**

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Last but not the least, our sincere thanks and appreciations goes to all project beneficiaries - farmer groups (production & Marketing groups) and its members, Agro-vets, NDHs, Agro-traders and local leaders of MARD pocket, without their co-operation and contribution, the program would have not been successful.

Krishna Khanal  
District Co-ordinator

Babu Ram Tamang, Motivator  
Hindi Rai, Motivator



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

\* 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, and
- 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, and
- Monitoring and Evaluation.

#### 4. Project Strategies

##### A. Market Development:

- Provide market information to farmers,
- Upgrade market practices,
- Promote cooperative/ group marketing, and
- 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, and
- 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, and
- Nutrition household demonstration.

##### D. Bottom-up Planning, Coordination and Policy Issues:

- Conduct pocket level bottom-up planning exercise,
- Prioritize the issues, and
- 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	Gaindakot	Mukundapur	Amarapuri	Rajahar	Total
Population	32,222	10,521	7,899	10,212	60,853
Household	3,726	1,783	1,277	2,232	9,018
HH size	8.65	5.9	6.2	4.6	6.7
Cultivated land	1,863	711	405	845	3,824
Upland	1,048	236	100	270	1,654
Lowland	815	475	305	575	2,170
Farmer Org.	9	10	4		31
Reg. Coop.	9	3	1	4	17
Agro-Vet	5	2	1	5	13

Source: MARD Performance Monitoring Data for the Fifth Project Year, 2001-2002, Preliminary Results.

**Table 2: MARD Intervention Sites**

S.No.	VDC/NP	No. of sites	Name of sites
1	Gaindakot	5	Jhapardi, Shitalnagar, Thumsi, Shivanagar, Vijayanagar
2	Mukundapur	5	Beldia, Malpur, Bhendabari, Pitaui, Harkapur
3	Amarapuri	3	Gidaha, Mejhi, Panitanki (Salghari dropped)
4	Rajahar	6	Chhipeni, Kujauli, Piprahar, Dhuseri, Gauripur, Bartandri
<b>Total</b>	<b>4</b>	<b>19</b>	

## 6. Major Accomplishments

Almost all the planned several activities on market development, technology and agriculture extension services, nutrition improvement, and bottom-up planning, co-ordination and policy issues completed successfully during the four years of project period in Nawalparasi district (only few activities in 2001/02 couldn't be completed due to lack of program budget). Details of the activities completed are summarized in Tables 4-6. The Nawalparasi Team assisted M&E unit in conducting benchmark survey, annual performance monitoring surveys, updating pocket maps and providing periodic progress data. All the performance indicator targets have been exceeded (Table 3).

**Table 3: Performance Indicator Results in Nawalparasi District, 2002**

No.	Indicator Description	Base 1998	Base 1999*	Target 2002*	Actual 2002**
A-1	Annual sales of potato, cauliflower, cabbage & tomato (PCCT) in project pockets (\$US million)	0.01	0.05	0.06	0.23
A-2	Farmer groups assisted in project pockets		14	23	26
A-3	Hectares of PCCT harvested in project pockets	49	123	2.84	239.2
A-4	Average yield of PCCT (t/ha)	5.9	12.7	15.64	17.76
A-5	Per cent of PCCT production marketed (% sold)	36	46	53	70
A-6	Number of Agro-vets operating in the project pockets	5	7	9	13
A-7	Nutrition practices reducing the incidence of night blindness in project pockets (%)	60.4	69.4	79.25	88.4
A-8	Incidence of night blindness in project pockets	8	4	3.9	3

\* Revised during submitting new indicator targets in January 2000 and was approved on August 2000.

\*\* MARD/Lumbini-Gandaki Performance Monitoring Data for 2002, Preliminary Results.

**Table 4: Summary of Market Development Activities in Nawalparasi Pocket, 1998/99-2001/02**

S.N.	Project Activities	Unit	Total Plan 4 Yrs	Completed TA Activities				Total	Remarks
				1998/99	1999/00	2000/01	2001/02		
<b>1</b>	<b>Group marketing strengthening</b>								
1.1	Market Group formation	No.	3		2	2 (1 prev.)		2	1 dissolved in 99/2000
1.2	Meeting with marketing groups	No.	14			24	10	34	
1.3	Central gathering								
1.3.1	Co-ordination meeting (MGs, wholesaler, transporter, VDC officials and LA)	No.	3			4	1	5	
1.3.2	Central gathering management								
1.3.2.1	Scheduling of gathering of HVC	No.	AN						Completed
1.3.2.2	Agreement with transporter, wholesaler and marketing groups	No.	2			2 (65)		2 (65)	
1.3.2.3	Marketing group competition (project level)	No.	2			1	1	2	
1.3.2.4	Marketing extension material to MGs	No.	5		1	5	1	7	
<b>2</b>	<b>Market outlet development</b>								
2.1	Weighing scales set to MG for sale stall/collection point	No.	3			2		2	
2.2	Other support to MGs (plastic sheets/tin box/logo/letter pad/boards/calculator/registration etc)	No.	3			2		2	1 supported by MG competition prize
<b>3.</b>	<b>Market information system</b>								
3.1	Market information collection of major markets & dissemination to users (mkt prices, cost, trends, etc)	Time s	2/wk	2	1	2/wk	5/wk	5/wk	Radio price broadcast started from Sep 1. 2000 for 1 yr
3.2	Installation of price information board	No.	1	1	1	2		2	Updated in 2000/1
<b>4</b>	<b>Marketing Training</b>								
4.1	To commercial farmers (project level)	No.	1	1 (2)				1 (2)	
4.2	To commercial farmers/MGs (OST)	No.	4		2 (38)	2 (53)		4 (91)	Conducted in 1998/99 also
4.3	Agro-vet licensing (project level)	No.	4	1 (4)	1 (4)	1 (5)	1 (5)	4 (18)	

S.N.	Project Activities	Unit	Total Plan 4 Yrs	Completed TA Activities				Total	Remarks
				1998/99	1999/00	2000/01	2001/02		
4.4	Group marketing training to project staff; Motivators/JT/JT As of Las (project level)								
4.5	Post-harvest handling (OST)	No.	3		1	2 (37)		3 (>37)	
4.6	Record keeping to MGs (project level)	No.	1			1 (6)		1 (6)	
<b>5</b>	<b>Tours/Visits</b>								
5.1	Market linkage tour	No.	6	1 (10)	1 (14)	1 (10)		3 (34)	
5.2	Market Interaction visit	No.	4	-	-	3 (36)		3 (36)	
5.3	Post harvest loss assessment tour	No.	1			1 (10)		1 (10)	
<b>6.</b>	<b>Workshop</b>	No.	1			1 (60)		1 (60)	
<b>7</b>	<b>Other</b>	No.	1						
7.1	New Agro-vet Opening	No.		-	4	2		6	
7.2	Collecting Center construction by farmer group at Kujauli & Shitalnagar	No.		-	-	2		2	

Note : Figure in the parenthesis indicates the no. of participants.

Table 5: Summary of Technology and Agriculture Extension Services in Nawalparasi Pocket, 1998/99-2001/02

S. N.	Project Activities	Unit	Completed TA Activities				Remarks		
			Total Plan 4 Yrs	1998/99	1999/00	2000/01		2001/02	Total
1	On-farm Demonstration (OFD)	No.	171	84	90	18	4	196	
1.1	HV crops	No.							
1.2	Livestock	No.							
	- Forage	No.	5		5			5	
	- Pig	No.	2		2			2	
	- Poultry	No.	2		2			2	
2	On-site Training	No.							
2.1	HV crops	No.	68	12 (391)	14 (349)	29 (504)	24 (363)	79 (1607)	Included 7 trainings on fruits in last 3 yrs except in 2001/2.
2.2	IPM	No.	2		2 (35)			2 (35)	
2.3	Micro nutrient	No.	4		4 (61)			4 (61)	
2.4	Soil management	No.	1			1 (36)		1 (36)	
2.5	Poultry	No.	3	1 (15)	1 (18)			2 (33)	
2.6	Pig	No.	3	1 (11)	3 (33)			4 (44)	
3	Field Day (FFD)	No.	19	5 (246)	4 (202)	8 (229)		17 (677)	
4	Commercial poultry production (HH)	No.	28	13				13	
5	Farmer's Tech. Observation Tour	No.	3	1 (18)		1 (6)	1 (9)	3 (24)	
6	Group mobilization								
6.1	New farmer group formation	No.	23	14	5	6 (120)	2 (29)	27	1 FG of Salghani dropped
6.2	FG mobilization training	No.	5			4 (89)	1 (21)	5 (110)	
6.3	Attending FG meeting	No.	160			159	115	274	
6.4	FG competition	No.	2			1	1	2	
7	Profile updating								
7.1	Site profile	Times	2			1		1	Cancelled in 2001/2 due to emergency situation
7.2	VDC profile	Times	1			1	1	2	Done by M&E unit
7.3	Group profile	Times	3		1	1	1	3	
7.4	Seed directory profile	Times	1			1		1	
8	Ext. material prod. And dissemination	No. AN							Completed.

Note : Figure in the parenthesis indicates the no. of participants.

**Table 6: Summary of Nutrition Improvement Activities in Nawalparasi Pocket, 1998/99-2001/02**

S.N.	Project Activities	Unit	Total Plan 4 Yrs	Completed TA Activities					Remarks
				1998/99	1999/00	2000/01	2001/02	Total	
<b>1</b>	<b>Nutrition Demonstration Households</b>								
1.1	Selection of NDHs	No.	6	4	1	1		6	
1.2	Follow-up of NDHs	No.	6	4	5	6	6	6	
<b>2</b>	<b>Kitchen Garden</b>								
2.1	New kitchen garden selection	No.	6		5	205		210	
2.2	Kitchen garden follow-up	No.	191		1	210	180	180	
<b>3</b>	<b>Nutrition Training</b>								
3.1	Nutrition education training (NET)	No.	20	8 (211)	12 (405)			20 (616)	
3.2	Specialized training to trainers (TOT)								
3.2.1	Kitchen garden (project level)	No.	1		1			1	
3.2.2	Public awareness (project level)	No.	1			1 (1)	1 (1)	2 (2)	
3.3	Skill development training								
3.3.1	Kitchen Garden Training	No.	27		3 (106)	18 (406)	25 (472)	46 (984)	
3.3.2	Vitamin A food promotion/demonstration & hygiene & sanitation	No.	15		2	6 (149)	4 (70)	12 (>219)	
3.3.3	Food preservation and storage	No.	7			6 (149)		6 (149)	Combined with Vit A training in 2001 2
3.3.4	Public awareness/NCAP	No.				10 (224)		10 (224)	
3.3.5	Nutrition awareness training for influential groups (VDC/school/local institutions/agro-vet)/NCAP	No.	4				1 (43)	1 (43)	
<b>4</b>	<b>Nutrition field day (NFD)</b>	No.	4		2 (64)	2 (39)		4 (103)	
<b>5</b>	<b>Tour/Observation</b>								
5.1	Nutrition observation tour (project level)	No.	2			1 (5)		1 (5)	
6	Nutrition workshop (integrated with district level technology & market dev. Workshop)	No.	1			1 (60)		1 (60)	
7	Distribution of fact sheets	No.					Completed		Distributed about 500 sheets

Note : Figure in the parenthesis indicates the no. of participants.

**Table 7: Summary of Bottom-up Planning, Co-ordination & Policy Issues Activities in Nawalparasi Pocket, 1998/99-2001/02**

S.N.	Project Activities	Unit	Total Plan 4 Yrs	Completed TA Activities				Total	Remarks
				1998/99	1999/00	2000/01	2001/02		
1	Bottom-up Planning Workshop			8(334)	4(175)	-		12 (509)	
1	District level co-ordination								
1.1	Monthly meeting with LA	No.	AN						Completed.
1.2	Monthly progress report to LA	No.	AN						Completed
1.3	Joint program planning	No.	1		1			1	
1.4	Technology exchange	No.	AN						Completed
1.5	Joint monitoring and reporting of field activities	No.	AN						Completed
1.6	MIS support/exchange	No.	AN						Completed
1.7	Technology support to LA (FG-MG strengthening support/MIS)	No.	AN						Completed
1.8	Wrap-up closing workshop	No.	1				1 (52)	1 (52)	
2	Project level								
2.1	Intercation tour/visits to LA								
2.1.1	Hill districts	No.	1				1 (2)	1 (2)	
2.1.2	Terai districts	No.	1				1 (2)	1 (2)	
2.1.3	VIP observation tour to project's pocket activities	No.	2				3		
2.4	Computer refresher training for LA	No.	1				1 (2)	1 (2)	
3	Bottom-up planning workshop	No.	16	8 (334)	4 (175)	4 (98)		16 (607)	

Note : Figure in the parenthesis indicates the no. of participants.

**Table 8: List of Marketing Groups in Nawalparasi Project Sites**

S.N	Name of Marketing Group	VDC	Ward No.	Site	No. of Involved Producer Group	Total Number of Members
1	Women Vegetable Production & Marketing Group	Gaindakot	7	Shitalnagar	3	85
2	Rajahar Marketing Group	Rajahar	2	Kujauli	2	33
3	Beldia Vegetable Production & Marketing Group	Mukundapur	1	Beldia	9	152

**Table 9: List of NDHs in Nawalparasi Project Sites**

S.N	Name of Participants	VDC	Ward No.	Site
1	Mrs. Til Kumari Kapri	Gaindakot	9	Jhapardi
2	Mrs. Sumitra Tripathi	Gaindakot	7	Shitalnagar
3	Mrs. Til K. Mahato	Mukundapur-3, Bhendabari	3	Bhendabari
4	Mrs. Chhan Maya Mahato	Mukundapur	1	Beldiha
5	Mrs. Chandra Kala Poudel	Amarapuri	7	Gidaha
6	Mrs. Sushila Lamsal	Rajhar	5	Chhipeni

**Table 10: List of Agro-vets Operating in Nawalparasi Project Sites**

S.N.	Name of Agro-vets	VDC/Ward No.	Contact Person	Annual Sale (Rs)
1	Srijana Samuhik Agro-vet	Gaindakot, 7	Saraswoti Ghimire	70,000
2	Chhitiz Agro-vet	Gaindakot, 5	Shree Prasad	1,40,000
3	Bijaya Agro-vet	Gaindakot, 5	Jib Nath Adhikari	1,60,000
4	Gyanwali Vet. Clinic	Gaindakot, 5	Ramesh Gyawali	2,00,000
5	Narayani Bahumukhi	Gaindakot, 6	Diwakar Bhattarai	*
5	J.B. Agro-vet Center	Mukundapur, 1	Jit Ram Mahato	3,10,248
6	M.B. Vet. Sewa	Amarapuri, 6	Jit Ram Mahato	60,000
7	Gopal Agro-vet	Rajhar, 1	Gopal	4,00,000
8	Mangal Agro-vet	Rajhar, 1	Mangal Shrestha	3,30,000
9	Bhushal Agro-vet	Rajhar, 1	Puna Ram Bhushal	2,65,000

\* Recently established.

Note: There are other 4 Agro-vets operating outside project site wards within the project pocket VDCs.

## 7. Status of Farmer Groups

Twenty-six farmers groups having 506 members (1 per HH) are operating in the project sites. The farmer groups' members benefited from the project's various intervention activities and are able to earn income from selling HV crops' produces. MARD staff encouraged the farmer groups for group saving fund which has reached to NRs 3,10,828/- (as of December 2001). It has helped the farmer groups towards being sustainable in the matter of credit supply for purchasing agri. inputs among the members. Details about the farmer groups are presented in Table 10.

**Table 11: Status of Farmer Groups in Nawalparasi Pocket (As of October, 2001)**

S.N	Name of the Group	Site	Member			Major crops	Area (ha)	Prod <sup>n</sup> (ton)	Sold Qty (ton)	Value (Rs.)	Date of Estd.	Date of meeting	Group fund (NRs.)	Contact person
			M	F	T									
<b>Gaindakot VDC</b>														
1	Shivashakti FG	Japhardi	31	-	31	CF, C.P, R, BLM, B	22.38	313.72	301.87	13,48,495	05/4/1	1 <sup>st</sup>	58,000	Nanda P. Ghimire
2	Kalika WF Veg. Prod. Group	Jhapardi	-	25	25	CF, C. P. T. R	-	-	-	-	056/4/15	15 <sup>th</sup>	7,500	Mrs. Meera Ghimire
3	Janachetana WF Group	Jhapardi	-	30	30	CF, C. P. T, BLM	5.40	64.51	55.47	2,86,377	057/4/20	10 <sup>th</sup>	13,000	Mrs. Indira Ghimire
4	Narijagriti Group	Shitalnagar	-	34	34	CF, C. P. T, R	6.30	73.87	63.45	2,39,750	054/11/5	5 <sup>th</sup>	16,800	Mrs. Sumitra Tripathi
5	Naribikash Group	Shitalnagar	-	26	26	CF, C. P. T, BLM	11.26	90.76	84.06	3,52,350	054/4/11	4 <sup>th</sup>	17,000	Mrs. Luna Sapkota
6	Shitalnagar Samuha	Shitalnagar	-	24	24	CF, C. P. T, EP, BLM	6.72	67.61	61.187	1,68,357	056/11/5	6 <sup>th</sup>	15,000	Mrs. Gita Sapkota
7	Bindyabasini Veg. Group	Shivanagar	20	10	30	CF, E. P, EP, BLM	16.61	151.24	147.578	6,36,748	056/5/7	10 <sup>th</sup>	21,000	Mr. Diwakar Poudel
8	Jayashree Hanuman Group	Thumsi	13	2	15	CF, P. T, BLM, Cu	5.63	44.21	41.39	2,04,560	057/8/3	3 <sup>rd</sup>	10,000	Mr. Khem B. Khadka
9	Bijaya Farmer Group	Bijayanagar	9	9	18	CF, C. P. T, R, Cu	2.35	28.17	25.297	1,09,602	057/4/1	9 <sup>th</sup>	8,000	Mr. Madhav Acharya
<b>Mukundapur VDC</b>														
10	Kopila off-season Group	Beldiha	10	2	12	CF, C. P. T, BLM, Cu	10.45	52.32	48.65	3,19,743	055/6/25	20 <sup>th</sup>	7,806	Mr. Jit Ram Mahato
11	Kumarworti VP Group	Malpur-2	11	2	13	CF, C. P. T, BLM, Cu	3.91	30.39	27.851	2,05,215	057/7/1	7 <sup>th</sup>	4,801	Mr. Ganga R. Mahato
12	Kumarworti VP Group	Bhendabari-3	9	3	12	CF, C. P. T, BG, Cu	3.80	13.12	12.32	79,695	055/6/6	8 <sup>th</sup>	5,200	Mr. Bhim B. Mahato
13	Mukundapur off-season VP Grp	Pitauji	12	-	12	CF, C. P. T, BG, Cu	11.11	115.69	108.255	4,36,406	056/9/3	2 <sup>nd</sup>	4,300	Mr. Rabi L. Kandel
14	Milijuli off-season Veg. Group	Harkapur	14	5	19	CF, C. P. T, Cu, BG	NGp	NGp	NGp	NGp	058/4/16	1 <sup>st</sup>	5,050	Mr. Chhanu R. Mahato

S.N	Name of the Group	Site	Member			Major crops	Area (ha)	Prod <sup>n</sup> (ton)	Sold Qty (ton)	Value (Rs.)	Date of Estd.	Date of meeting	Group fund (NRs.)	Contact person
			M	F	T									
<b>Amarapuri VDC</b>														
15	Amrit Veg. Prod. Group	Gidaha-7	4	13	17	CF, C. P. T. Cu. BG. BLM	2.46	19.30	17.35	99.200	056/6/25	1 <sup>st</sup> Sat	1.696	Mr. Shrihari Adhikari
16	Devchuli Veg. Prod. Group	Mejhi-5	22	3	25	CF, C. P. T. Cu. BG. BLM	NCP	NCP	NCP	NCP	054/6/7	21 <sup>st</sup>	3.085	Mr. Bhagwan Kafle
17	Navajyoti Veg. Prod. Group	Gidaha-7	14	5	19	CF, C. P. T. Tu. BLM	3.18	38.84	35.80	1,76.500	056/4/9	4 <sup>th</sup>	10,305	Mr. Jhalak P. Poudel
18	Sundari Veg. Prod. Group	Panitanki-3	11	12	23	CF, C. P. T. Cu. BG	3.35	50.25	46.633	2.04.102	056/6/25	2 <sup>nd</sup>	13,587	Mr. Manahari Sapkota
<b>Rajhar VDC</b>														
19	Tori Production Group	Chhipeni-5	13	7	20	CF, C. P. T. Cu. Pea	11.16	11.00	0.700	5.200	051/6/21	10 <sup>th</sup>	2,200	Mr. Shikha R. Mahato
20	Srijana off-season VP Group	Kujauli-2	8	11	19	CF, P. C. T. Cu. BLM	13.36	97.068	93.118	5,09.295	055/8/9	8 <sup>th</sup>	22,975	Mr. Bika R. Chaudhary
21	Narayani Veg. Group	Piprahar-3	13	1	14	CF, P. C. T. Cu. BLM	14.89	106.15	101.112	5,01.736	055/8/20	7 <sup>th</sup>	12,021	Mr. Bhawani Pathak
22	Namuna Veg. Group	Dhuseri-7	9	6	15	CF, C. P. T. Cu. BLM	1.36	6.47	5.30	21.200	056/9/15	5 <sup>th</sup>	512	Mr. Mukti Pun
23	Off-season Veg. Prod. Group	Chhipeni-5	-	20	20	CF, C. P. T. BLM	10.59	10.65	1.40	9.800	055/7/21	2 <sup>nd</sup> Sat	19,12	Mrs. Bhim K. Aryal
24	Navagauri Veg. Prod. Group	Gauripur	13	-	13	CF, C. P. T. R	1.24	6.80	5.80	12.200	057/12/1	1 <sup>st</sup> Sat	3,184	Mr. Nir Bahadur Rana
25	Radha Krishna Veg. Prod. Grp.	Kujauli-2	-	10	10	CF, P. C. T. BLM	1.15	0.50	0.40	3.000	057/12/8	3 <sup>rd</sup>	7,354	Mr. Tej Kumari Basyal
26	Bartandi Veg. Prod. Group	Bartandi-8	3	7	10	CF, P. C. T. BLM. Pea	NGp	NGp	NGp	NGp	058/4/18	6 <sup>th</sup>	3,566	Mrs. Fulmaya Tamang
<b>District Total</b>			239	267	506	CF, P. C. T. BLM. R. Cu. BG. Pea	168.50	1392.658	1284.92	59,29.534			3,10,828	

Note : Production and sale volume is as of July 2001. Other information are as of October 2001 except group saving fund (is as of December 2001).

FGP = Farmer Production Group, CF = Cauliflower, P = Potao, Cu = Cucumber, C = Cabbage, T = Tomato, EP = Eggplant, BLM = Board leaf mustard, BG = Bitter gourd, R = Radish, NGp = New group, NCP = No commercial production

## 8. On-farm Demonstration (OFD) Results

One hundred ninety six OFDs on various HV crops varieties were conducted and high yielding and farmer preferred varieties were stressed for wider adoption in the project sites as well as diffusion sites. The OFD results for last 3 years are presented in below Tables 12-13 and results for 2001/02 couldn't be obtained due to the phase out of the project (earlier than crops complete harvest).

**Table 12: OFD Result in Nawalparasi, 1998/1999**

Crop/Variety	# of Location	Yield mt/ha	Crop/Variety	# of Location	Yield mt/ha
<b>1. Potato</b>			<b>6. Zukini</b>		
1.1 PM	3	21.94	6.1 Zukini tin	1	26.67
1.2 NSI 18	3	36.63	6.2 Fresh green	1	26.67
1.3 NSI 7R	5	35.22	<b>2 Varieties</b>	<b>2</b>	<b>26.67</b>
<b>3 Varieties</b>	<b>11</b>	<b>31.27</b>	<b>7. Hybrid Maize</b>		
<b>2. Cauliflower</b>			7.1 Pioneer 3056	5	62600 (green cob)
2.1 Early variety			7.2 Bioseed 8196	6	62000 (geen cob)
2.1.1 Indam Early	2	17.50	<b>2 Varieties</b>	<b>11</b>	<b>62300</b>
2.2 Late variety			<b>8. Sunflower</b>		
2.2.1 Serrano	6	37.83	8.1 BIKI-F1	3	2.40
2.2.2 Ujwala	3	35.00	8.2 MSFH-8	4	3.95
2.2.3 Kibo giant	3	32.25	<b>2 Varieties</b>	<b>7</b>	<b>3.17</b>
<b>Late varieties</b>	<b>12</b>	<b>35.03</b>	<b>9. Brinjal (Egg plant)</b>		
<b>Cauli Total (2.1+2.2)</b>	<b>14</b>	<b>26.26</b>	9.1 Saurav	2	27.50
<b>3. Cabbage</b>			<b>1 Variety</b>	<b>2</b>	<b>27.50</b>
3.1 Green Stone	6	69.17	<b>10. Chilli (o.g)</b>		
3.2 Green Coronet	6	76.50	10.1		
3.3 Zenith	6	65.83	10.2		
<b>3 Varieties</b>	<b>18</b>	<b>70.50</b>	<b>2 Varieties</b>		
<b>4. Tomato</b>			<b>11. Okra</b>		
4.1 Naveen	2	108.25	11.1 Arka Anamika	3	8.44
4.2 Ramya	3	99.77	11.2 MBH-8	3	9.56
4.3 Krishna	1	35.00	<b>2 Varieties</b>	<b>6</b>	<b>9.00</b>
4.4 Karna	2	80.15	<b>12. Cucumber</b>		
4.5 SC-3	1	48.00	12.1 Long green	3	14.21
4.6 Rupali	5	92.96	<b>1 Variety</b>	<b>3</b>	<b>14.21</b>
4.7 SC-1	1	25.00	<b>13. Bitter gourd</b>		
4.8 Avinash-2	2	90.00	13.1 Jhallary	2	15.00
4.9 Manisha	2	97.45	<b>1 Variety</b>	<b>2</b>	<b>15.00</b>
4.10 Rashmi	2	58.35	<b>14. Sponge gourd</b>		
4.11 Meghna	2	81.85	14.1 MSGH-10	2	23.33
4.12 Naveen 2000	1	79.70	14.2 MSGH-1	1	26.67
<b>12 Varieties</b>	<b>24</b>	<b>74.72</b>	14.3 Pusa Chillo	1	5.00
<b>5. Onion</b>			<b>3 Varieties</b>	<b>4</b>	<b>18.33</b>
5.1 N-53 (Nasik red)	4	35.75	<b>15. Asparagus beans (o.g)</b>		
5.2 Dark Red	4	32.50	15.1		
<b>2 varieties</b>	<b>8</b>	<b>34.13</b>	15.2		
			<b>2 Varieties</b>		

Note : o.g. = on-going (during reporting period)

**Table 13: On-farm Demonstration Results in Nawalparasi District in 1999/2000 & 2000/2001**

Crop/Variety	1999/2000				2000/2001				
	# of Plot	Ave. yield (t/ha)	Highest yield (t/ha)	1999/2000 P. M.	# of farmer	Ave. yield (t/ha)	Highest		2000/2001 P. M.
							Yield (t/ha)	Location	
<b>1. Potato</b>									
Desire	11	20.7	28.8						
Kufri Sinduri	11	28.88	46						
TPS					31	29	33	Mejhi	Mejhi
All varieties planted	22	24.79	46	12.02					12.51
<b>2. Cabbage</b>									
Green stone	4	45.8	52.5						
T-621	4	52.4	60						
All varieties planted	8	49.1	60	18.44					
<b>3. Cauliflower</b>									
Indam Early	8	17.5	21						
Indam Katiki	3	19	20						
Pusa Katiki	3	20.3	21						
Serrano	9	33.5	45						
Snow mystique					1	25	42	Shitalnagar	
Snow crown					45	24	30	Shitalnagar	
All varieties planted	23	24.32	45	13.44	46	24			16.7
<b>4. Radish</b>									
4.1 Tokinasi	2	32	34						
All varieties planted	2	32	34	16.72					
<b>5. Tomato</b>									
Avinash-2	3	78.16	85						
Namdhari	2	67	80						
Apurva	6	46.08	56						
Rupali	4	41.75	52						
Ramya	4	75.87	82		61	38.4	60	Jhapardi	
Naveen	3	68.66	81						
Manisha	11	69.54	83		16	43	50	Beldia	
All varieties planted	33	63.22	83	22.22					24.12
<b>6. Onion</b>									
NS-53	7	32	39						
Rojo	7	45	48						

Note: P.M. = Performance Monitoring.

Crop/Variety	1999/2000				2000/2001				
	# of Plot	Ave. yield (t/ha)	Highest yield (t/ha)	1999/2000 P. M.	# of farmer	Ave. yield (t/ha)	Highest		2000/2001 P. M.
							Yield (t/ha)	Location	
All varieties planted	14	38.5	48	15.1					
<b>7. Cucumber</b>									
Long green	3	27.33	35						
Maheco long					19	18	21	Jharpadi	
All varieties planted	3	27.33	35	14.45					18
<b>8. Egg Plant</b>									
Shaurav	1	37	37						
Pusa Kranti	1	32	32						
All varieties planted	2	34.5	37						
<b>9. Okra</b>									
Arka anamika	4	13	15						
Sagun	4	10	14						
All varieties planted	8	11.5	15	8.58					
<b>10. Bitter gourd</b>									
Jhallary	4	15.5	19		2	8	10	Shitalnagar	
White long					4	17	21	Panitanki	
All varieties planted					6	14			11
<b>11. Pointed gourd</b>									
Local					15	*			
All varieties planted									NA
<b>12. Papaya</b>									
Madhubala					3	*			
Madhumira					2	*			
All varieties planted					5	*			21.9

\* on field during reporting period.

Note: P.M. = Performance Monitoring.

### 9. Problems Encountered

1. Poor status of tomato OFD in Harkapur and Bijayanagar site, due to light textured soil. In these areas, it is better to use slightly more amount recommended dose of organic matter, chemical fertilizer and micron-nutrient in future.
2. Price of main season vegetable crop was very low, e.g. price of main season cabbage was NRs. 1-2 per kg.
3. Newly formed marketing group (formed on Srawan 32, 2058) is not functioning smoothly. It needs further support.

4. Nutritional status of Harkapur site and Bartandi site seems to be poor due to lack of nutrition knowledge. Didn't run any nutritional program in previous year because the group was not formed.
5. Newly formed 5 production groups i.e. (i) Bijaya Krishi Samuha of Bijaya Nagar site, (ii) Millijuli group of Harkapur site, (iii) Radha Krishna farmer group of Kujauli site (iv) Navagami farmer group of Bansipur site and (v) Bartandi vegetable production group of Bartandi site are comparatively weak as compared to other production groups, so that more technical support is needed for these groups.
6. Two groups (a) Tori production group and (b) Off-season vegetable production group of Chhipeni site has irrigation problem. So that off-season vegetable crop during rainy season and less water needed crop like leguminous crop should be recommended.

## **10. Major Project Impact**

1. As an example, the farmers of Shivashakti farmer group, Jhapardi site, Mr. Tej Prasad Adhikari, Krishna Prasad Ghimire, Jib Nath Ghimire and Sita Ghimire have sold off-season cauliflower and tomato worth NRs. 60,000 in this season i.e. in November 2001. They are willing to grow these type of off-season vegetable in three bighas of land next year. In overall, the sale value of PCCT increased from 0.01 US\$ million in 1998 to 0.23 US\$ million at the end of the project.
2. The diffused farmer Mr. Ghanashyam Kandel of Gaiindakot-8 and Mr. Prajapati Kandel of Gaiindakot-9 had sold Kasmiri long cowpea worth NRs. 50,000 in this year. They are willing to grow off-season vegetable in 3 bighas next year.
3. Female marketing group of Shitalnagar site has developed vegetable marketing skill and now they are willing to construct vegetable collection center in Shitalnagar.
4. A member of Kopila vegetable production group Mr. J.R. Mahato has run Agro-vet in Beldiha site and serving the vegetable producing farmers. He is also growing vegetables and being the model farmer of the site. The total Agro-vets operating in the MARD pockets are 13, before project there were 5 Agro-vets.
5. A member of Srijana Off-season vegetable production group of Kujauli site Mr. Bika Ram Chaudhary has started group marketing in Rajhar Bazaar and running agro-vet. He is also involved in production group.
6. Earlier than the MARD activities, the farmers group specially of tharu community of Beldiha, Bhandabari, Malpur and Kujauli site were less conscious regarding green vegetable and vitamin A and its importance. Now, these groups are practicing kitchen gardening to fulfil vitamin A deficiency and other essential nutrients. From this practice, female specially lactating and pregnant and the children of below 5 years age have been directly benefited. In MARD pockets, percentage of women adopting improved nutrition practice increased from 60.4 in 1998 to 88.4 in 2002 which helped to reduce incidence of night blindness from 8% to 3% at the end of the project.
7. Group marketing concept has been remarkably developed. Nine production groups of Mukundapur and Amarapuri VDC, realized that marketing process is the problem. Only

production of vegetable is little-bit easier than marketing process. For successful vegetable farming, smooth and easy marketing is required. So, that they unified themselves and have formed one marketing group in Beldiha bazaar. The per cent sale of PCCT increased from 36 to 70 at the end of the project.

8. Before MARD activities, potato and tomato was not important crop. Only 1 hectare of land was covered by tomato. Now 26.5 ha. of land has been covered by tomato. Potato growing practice has been increased from 36 ha to 112.7 ha of land in project VDCs. Average yield of PCCT increased from 5.9 t/ha in 1998 to 17.76 t/ha.
9. Farmers did not store the potato in cold storage earlier, now 30-40 ton of potato has been stored in cold storage for seed and eating purposes.
10. Nursery raising practice has been remarkably developed in different production groups. Now farmer groups know that only healthy seedlings can produce higher yields.
11. The relation between farmers and agro-vets has been strengthened. So that, now farmers demand good quality seeds and essential inputs earlier than the season starts.
12. The standard of living of the people has been increased of members of the groups. Now, many members of the groups has constructed buildings. They send their children in boarding schools instead of sending them in government schools. Feeding habit has been remarkably changed i.e. they give priority to green vegetable in the diets.

#### **11. Lessons Learned, Conclusions and Recommendations**

1. The group formed by NGO/INGO or LAs should be different. If the same group is handled for different developmental purposes, the members of the group will be confused regarding the purpose and objective. And some groups are getting the services from more than one organization and some groups are not getting the services even from single organization. It is, therefore suggested not to have duplication in program while working with farmer groups.
2. The FFD (Farmer's Field Day) became more effective as compared to other programs for adopting new technologies. E.g. the upper Kujuli groups (Radha Krishna Women's Group of Kujauli site) was formed after participation in FFD of January, 2001. Dr. T.N. Shrestha (HES) and Dr. S.K. Chaudhary (SES) were also present in the program and both of them explained about the program. Then the farmers of upper Kujauli specially female (women) became impressed from the program and formed the women farmer group on March, 2001. MARD TA Team, Nawalparasi provided them kitchen garden training. After kitchen garden program, the group is producing marketable high value crops like egg plant, chillies, cauliflower, cabbage, potato, tomato and so many other vegetables in their kitchen garden.
3. While approaching the farmer's group, gender specific program activities particularly for female farmers' group should be taken into consideration.
4. In future, developmental program, it will be better to focus on low income tribal people with land holding up to one hectares like Tharu, Magar, Tamang and Darai community in Nawalparasi District. These type of community have given more response about the MARD program in this district.

5. To conduct production programs in newly formed 5 production groups, it will be better to provide intensive practical training on HVC production and group marketing and soil management specially micro-nutrient application in vegetable crop.
6. Intensive technological support will be more effective to the newly emerged professional vegetable grower like Bed Prasad Kandel of Pitauji site, Tej Prasad Adhikari, Krishna Prasad Ghimire and Jiva Nath Ghimire of Jhapardi site, Kham Bahadur Khadka of Thumsi site, Nir Bahadur Rana and other members of Gauripur site, Thagai Ram Mahato, Jiwan Ram Khajwar and their group members of Kujauli site of Rajhar VDC.
7. Nutritional development program should be emphasized in newly formed group like Bartandi vegetable production group, Navagauri vegetable production group, Radha Krishna vegetable production group, Millijuli farmer's group and Bijaya krishi samuha.
8. It will be better to equally support to 6 newly emerged agro-input suppliers (Agro-vets) promoted by MARD TA Team in Nawalparasi MARD pocket.
9. In-order to increase the income of rural farmers, emphasis should be given on off-season HV vegetable crops production and marketing. The farmers had preferred the MARD TA Teams' market based incentive approach.
10. MARD TA Team had very good relation with the Project beneficiaries. Their regular feed back to the project was very important in implementing the program successfully.

## Annex-1

### Some Photographs of Project Field Activities in Nawalparasi District

#### a. Market Development Program of Nawalparasi MARD Pocket Area

Interaction and discussion program among wholesalers, retailers, marketing and production groups' selected members, and LA/TA staff, January 2001.



Shitalnagar women marketing group's members engaged in marketing stall during February - March 2001



Annex 1 (contd..)

Interaction with wholesaler of Butwal Haat Bazaar by Marketing group and production group of nawalparasi



Mr Govinda Kandel of Gaidakot-9, Nawalparasi (non-group member) harvested Kasmiri Long Cow pea (June, 2001) ready for market



Annex-1 (contd..)

b. Improved Technology Extension Program in Nawalparasi MARD Pocket Area

Participants of OST (cucumber, bitter gourd) off-season production technology held on December, 2001 (Bijaya Nagar site)



Participant of group mobilization training in Amarapuri VDC hall (Jan. 2001). TA team staff Dr. S.K. Chaudhary (SES), Mr. K.P. Khanal (DC) & Mr. B.R. Tamang (Motivator) introducing the participants



Annex I (contd..)

Participants of  
FFD in  
Gaindakot-4,  
Jhapardi site  
observing the  
potato crop  
during Jan. 2001



Dr. T.N. Shrestha &  
Dr. S.K. Chaudhary  
during field  
supervision program.  
Discussing regarding  
spacing, fertilization,  
irrigation and other  
important technologies  
of squash in Jhapardi  
site with grower Mr.  
Nanda Pd. Ghimire on  
Feb. 2001



**Annex-1 (contd..)**

**b. Nutrition Development Program**

Dr. Parvati Shrestha & motivator Ms. Hindi Rai preparing vit. A-rich food, hygiene & sanitation & food preservation training in Amarapuri, Gidaha site on March 2001



Dr. Parvati Shrestha conducting vit. A-rich food promotion demonstration, food preservation, hygiene and sanitation program in Gidaha site of Amarapuri VDC



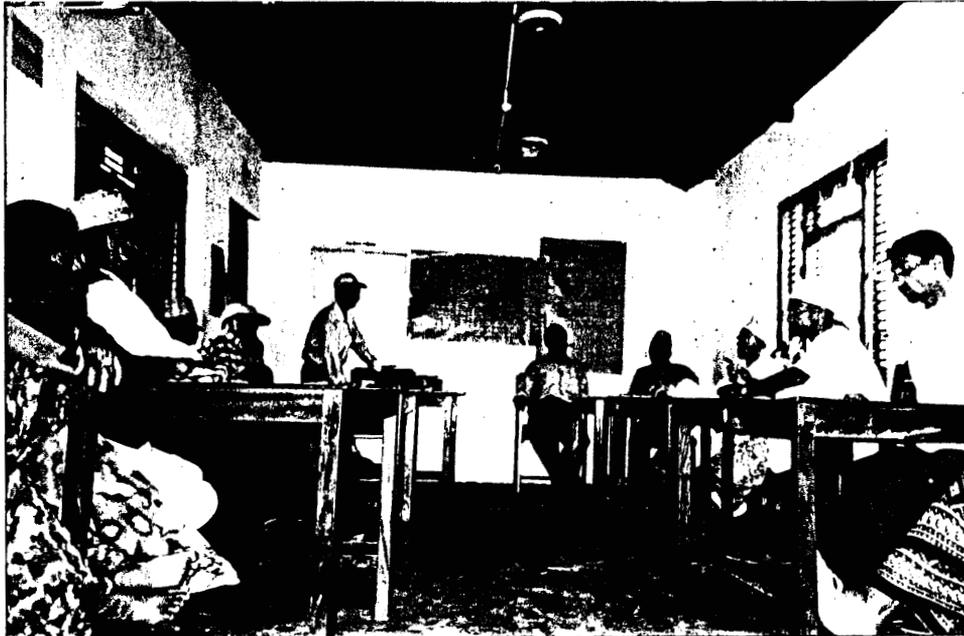
**Annex-1 (contd..)**

**d. Bottom-up Planning and Policy Reform**

Participants of  
BUP in Gaindakot  
VDC hall,  
discussing the next  
year's program on  
June 2001



Participants of  
BUP in Amarapuri  
VDC hall. Group-  
wise program  
planning for  
coming next year  
held on June 2001



(contd..) Annex-1

e. VIP Visitors of Nawalparasi MARD Pocket

Ms. Donna Stauffer,  
Mr. Shribindu  
Shribindu  
Bajracharya,  
discussing with  
agro-vet owner Mr.  
J.R. Mahato of  
Beldiha during viist



Mr. Shankar Lal  
Chaudhary from  
MARD, PCO,  
CADO, Mr. Sukra  
Pradhan, Team  
Leader Dr. B.B.  
Mathema and staff  
interaction with  
women production  
group of Jhapardi  
site on Feb 2001.

