# Attachments

Attachment-1	A Sample Agreement for Establishment of WUA
	(A part of the case of "Lubhu Irrigation Scheme" in Lalitpur district) 111
Attachment-2	A Sample of (Sub-)Project Request
	(In case of "Thika Bhairaw-I" in Lalitpur district)
of Information Art. District	
Attachment-3	A Sample of (Sub-)Project Profile
	(In case of "Shali Nadi" in Kathmandu district) 123
Attachment-4	A Sample of Identification Survey Result
	(In case of "Mahadev Khola" in Bhaktapur District) 141





की १ को सरकार जलश्रोत मन्त्रालय सिंचाई विभाग मध्यमाञ्चल क्षेत्रीय सिंचाई निर्देशनालय जिल्ला सिंचाई कार्यालय, ललितपुर

Lubhn Rgaj Kinlo

फाइल संख्या 🦂 📜 📈

या रामकेष अवार न्याना

नाम

विवय

सम्बन्धित

देखि "

सम्म

२०४ साल

# लुम् (सिन्ताई) शाज खुली त्येचाई योजाना . वाट सिन्दाई हुने गा वि स्म हुछ !

सि न	भा । हो स्य का नाम	वडा में हुरू	घरम् लीस्टिंगा	पारेबार ब्लेश्व्या	जमा द्वीत्रपता .
٩, ٠	विकाथली जा विनस	६,७,८,६.	224	98 <i>03</i>	9028-0-0
75	लुभू गाः विः सः	<sup>ુ</sup> ૧,૨,૩,૨,૬,૯,૬	244	१५४६	9003-9-3
حمال	लामाराह्याः विस्स	<u>~</u>	22	٩४८	987-0-0
			202	3600	2282-9-3

Anney-5

Attachment - 1

ीरपायरी र प्राविकरण सम्वीन्ध अनुरोध पत्र...

ो 'तरा विवार इतिवनीयर निका विवार कामध्य, ''**लिलपुर'** जिल्ला

प्राप्तिस्य<u>ाः</u>

धामी निम्न लिखित देखास्त कताहिक यस अनुरोध पत्रद्वारा हामी. द्रिन्त. १८३७ कि. ... रिवार्ड आयोजनसको निमाणा विकरणसुधारमा आत स्यक् १८३० में परिचार हा त्यस कायालियलाई अनुरोध भेदेखी । प्रस्ताविक आयोजनाका सिवापत १८९४० की नाम संजन रासिएको छ ।

उन्हों ज विश्वनाको सम्बन्धमा त्यस कायालियते गृने कारवा होको जानकारीको लाज परिते । जनुरोध: ( सिचित चोत्रको प्रतिनिधित्व गृने सिक्यिक्ष्णेक्ष्क । जन प्रतिनिधिहरू पर्वे ॥ पना ॥

२,१६ वाचीवना पत्रि अन्तर्गत मनी

र्णे थे, लामावार, क्रेड्रेस्ट्रेस

क्षां विश्वतिकारिता विष्वतिकारिता विश्वतिकारिता विष्वतिकारिता विश्वतिकारिता विष्वतिकारिता विश्वतिकारिता विष्वतिकारिता विष्वतिकारिता विष्वतिकारिता विष्वतिका

ं गरा गरी राजिती आयोजनाकी विस्तार

चितित मधीरहेको । छुनेजनसा । १९४२ हो। ४०१

- सिंवाई विमाग -
- विन्धानहार
- ए । शायोजनाको किसिम-
  - सत्त्वगत
  - न लिफाट
  - भुभिगत
- ६,। यतन सत्तक्त वा- रिप्पन्ट आयोजना ही भने मुहानक दिल्एण-
  - (क) नहीं। बलिको नाम : श्रुप्तिना अत्र (जन्म)
    - (ल) हुइगन रहेको स्थान : सिनिट्रे , त्यामारा
      - गाउँ विकास समिति : लामारा जा नि . ध
      - याडा नं : व
      - ठार्जनों नाम : । सिसमेर)
  - ं (ग) स्थायी । अस्थायी
- (घ) चेन । वैशास महिनामा मुहानमा रहने पानी कोपरिनाम (0.059 + श्रीते ) ७ - मुहानको सहस्या -:

उरलेखिन मुखान मन्दा तल माथि २।२ कि, मि, भित्र त्यस सिलावाट की कुलीस्क पहिलेखा पंचा दिया भएको भए तो कुलोस्क मुखान ए सिचिता कील सम्बन्धी विस्तृत विश्वरण विने

प्राप्त प्राप्त निवार निया किलो निमाणि गदा दिका -७ मा उत्के वित विता निवान करवाट वाचा आउं विक आउदेन उत्केल गर्ने ।

हर् पुरानों कुलों मर माँ कुलों निमाणिको लागिशी प को तरकार या अन्य लेन निकायहरू धेंक र्यंध संस्था आदिवाद श्रण लिमस्को छ कि हैन, हू भने करिले लिस्कों श्रण् चुका भसकेको छ उल्लेख गर्ने ( ऋण रक्ष र साल समेत खुलाउने )

The second secon	,		14		
१०। आयोजना - अन्तर्गत-	. 0.4		A State of the last of the las	3	
क्षाना सम्बद्धाः स्टब्स्ट	THATE.T	उससद्धार			Ξ.
- 50 I off of the - one of such	1 21-12 4 6	5-1	4. W. S. M 44 44.	4 1447	٧
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(क) शाल मह रासेका ] १ %	हेक्टर
(त) विस्तार गरिदाX.P	_
(ग) नया निमाण गरिया	हैक्टर
(प) जम्मा सिंचाई हुने मौत्रफल रें र्रे	, हेक्टर्

## ११ सिंबाई वाट लामानिवत हुन सक्ने जनसंख्या

- परपुरी २०२
- जनसंख्या 及600

१२. वायोगवाको लागि वहारिय गर्ने पने कारणहरू: यो योग्य और अर्थ विद्या १००० विका अद्या अर्थ के प्राप्त योग्य योग्य ही नित्र विकार विकार के व

कृषक्रक्र योजनको बुल लाग्ने सर्वको आधारमा १ देखि ५ प्रतिशत सम्म नम्ब जन्मान पर्ने र ६ - देखि २० प्रतिशत सम्म श्रमदान गर्नु पर्ने छ । नगद र श्रमदान समेत गरि प्रतिहेक्टर रू, इ. २५००। - देखि रू, ४०००। - सम्म कृष्णकरुको व्यहीनु पर्ने छ । जिल्ला सिंचार्ड कायालयको सिफारिसमा नगद र श्रमदानको लागि व्यहोनु पर्ने रक्षम चाहिएमा कृष्ण वैक्याट ऋण स्वरूप उसलव्ध हुन सक्ने छ । 

सि, ने,	धर मुलोको पुरा नाम थर वतन	पिर्वार	सिचित	लालपुर्जा	। दस्तलत वा ओठाको
( <del>į</del> -,	51151 41-2 20-1	- <i>Co</i>	以对对	<u>ن</u>	
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	何也不是多了了		2-st	£ 7	on longe of sel
5	9, m 3, 0)		न्रहे प	المتنا ا	7
90.	यामा (के) महत्त्र	('&	是有特	1 77	1 Carolina
99 1	यानु माजी सहजीन	8	1992 11	ا در ا . فر	800 m 1P
42	जीवाल इसा जारजन	V	19.300	1 ~	117/21
43.	र्रं स्तर् अम्हनन	90	9 रोपनी	8.	A STATE OF THE PARTY OF THE PAR
18	शास्त्र थापा/	6	र- देवन	E .	
94	विरिशाम व्याप	)	19 11	(1)	Mark and a second
98.	होर्राम थापा	1/	見り	87	(/)
Cu !	(1) AUI (1818 ( 2/101)	KC	50 11	21	9/1/4/19
nt-	राम अंदिन याचा	(0	9 11	11	होंगरी नेगरी में
9.5	रामा यापा	8	991	))	व्यालगढ्ठ
-26	केमल यापा	1/2	011	11	Al vim land
29	25 98142 थाणा	90	類分型	Fee	6/2160
92	धारा । सादर यापा	Ep	ゆかか		1.13.118.13
23			9.11	12	CANCE

p	ag	9	1	of	5

CHID	nna i	L'VI	nrai	דים חו
OUD	PROJ	EG.	REQU	ルしひょ

		DATE	 

The District Irrigation Engineer District Irrigation Office Latiples → District

Sir:

We the undersigned hereby request assistance from your office for the construction/rehabilitation of the following irrigation scheme the descriptions of which are contained in the duly accomplished Subproject Request Form herewith attached.

We hope to be advised by your office of any action regarding this matter.

Very truly yours,

#### REQUEST SUBMITTED BY

Name	Position	Village and Ward No.
Bhoj Bookadur	Theba Y.D.C. Chareman	Lee Y. D. C. Word No. J
	.Deshor	Transactor of the control of
Kell To Barre		Sind Kale 1 D C High No 2
Mill Marine	14. 2 Jan	Direction N. D. C. Mary M. 2

Page 2 of 5
SUBPROJECT REQUEST FORM
1. Name of Subproject . Tike Chirt
1. Name of Subproject : Tika Bhare ab No.1. R.P. 2. Location of the Subproject : hele
2a. Principal Village(s) covering subproject area
Village Name
Lelo V.D.C. 7 Ro. J. The Cho. V.D.C. 1-6 39  The Cho. V.D.C. 1-5 39  Phabacichel V.D.C. 1-5 7-9  2b. Name of nearest roadhead 1-9
2c. Distance of Subproject Command Area from the nearest roadhead.
area?  Walking / / 4-wheel vehicle / / **
2e. If by walking, how long would it take? .0:30 hours  3. Subproject Status (Request is for)
New Scheme // Improvement
Water Users Committee, etc.) in relation to this proposed scheme?
/ / NO
Name of Officers/ Leaders  Position in the Farmers Organization  Farmers Organization  Farmers Organization  Farmers Organization  Farmers Organization  Farmers Organization  Farmers Organization
Carting Mineral Desilor South to

5.	Type of scheme/water sources.
	/ Surface Scheme / / Lift Scheme / / Groundwater
3.	If surface or lift scheme, what is the name of the river/stream?  Nalle Khile Lele Khile
7.	Number of offtakes upstream and downstream of the existing/proposed diversion point on this river/stream or basin
3.	Are there any existing/potential problems on water rights of the proposed subproject? / / Yes / // No. If yes, please explain.
9.	Command area of the Subproject (in hectares)  9a. Existing 9b. Proposed Extension 9c. New 9d. Already Irrigated  100ha ha ha
	Note: 1 ha = 20 ropani = 1.5 bigha
10.	Number of beneficiaries (To be taken from attached list).
	Household 2355 People 17.197
11.	Reasons for request.
	11a. If existing scheme is not functioning since last 2-3 years or more give physical damages in the scheme due to which the scheme became defunctioning. Well, with at walls. The scheme became defunctioning well, with at walls. The scheme became defunctioning with the scheme became defunctioning with the scheme became defunctioning since last 2-3 years or more give physical damages in the scheme due to which the scheme became defunctioning since last 2-3 years or more give physical damages in the scheme due to which the scheme became defunctioning with the scheme became and the scheme became defunctioning with the scheme became and the scheme becam
	interrupted at several time during canal operation, list only the most critical canal component/structure which contribute for interuption of canal operation.
•	Je Cellan Const. dr.c. 15. de 1920. go. Jeile Merter Je

Page 4 of 5

	11c.	If existing scheme is functioning but it has potential to extend its service area and needs technical and financial help. list down in order of priority, the additional structural support required
		**************************************
12.	Contr	ibutions and participation proposed by farmers.
	12a.	Are the farmers willing to form a Water Users Association?
		/// Yes // No
	12b.	Are the farmers willing to contribute a share to the subproject cost?
		/ / Yes / / No
	12c.	How do the farmers plan to make their contributions to the subproject cost?
		/ /Put up own cash / / Loan from ADBN / / Through labor contribution.
	12d.	Are the farmers willing to enter an agreement with the Department of Irrigation (DOI) on the construction/rehabilitation of the proposed scheme?
		/ / Yes / / No
	12e.	Are the farmers willing to take over the operation and management of the irrigation scheme after completion of construction/rehabilitation?
		/ Yes / / No
13.	List by wa	of household heads in the proposed command area (To be listed by VDC rd).
.*	e Elizabeth	Name of Village hole, Chapagesa, Dhashwarashi, Thecho, Dhapakh Ward No. Sunakoth, W.D. C.

Page 5 of 5

s.N	Full Name of Household Head	in each Household*	(ha) in CA	Signature Thumb Print
1	Dunge Bahadur 1	Shadka 7	12-0-0 Kaja	
2	Tagat Bahadur De	28haz 7	3-0-0 "	
3	Parac By Mah	sjan 5	3-0-0 "	
4	Tagat Haharjo	ry g	2-8-0 "	*
F.	Madhvertsa Kie Blin Behedus	<u> </u>	1-0-0 %	
6.	Bhim Bahadas Include	ng who are working away	$3-1-0$ $\nu$ seasonally.	

NOTE: IT IS TO BE NOTED BY THE FARMERS MAKING THIS REQUEST THAT UPON RECEIPT OF GENUINE DEMAND, IDENTIFICATION OR ASSESSMENT WILL BE DONE BY THE TECHNICAL PERSONS OF THE DISTRICT IRRIGATION OFFICE AND AT WHICH TIME THE FARMERS HAVE TO PARTICIPATE AND COOPERATE IN PROVIDING THE NECESSARY DATA AND INFORMATION AND IN THE CONDUCT OF SURVEYS, MAPPING, ETC.



## IRRIGATION SECTOR PROJECT

### SUBPROJECT PROFILE

## SHALINADI I.P

Name :

## Type/classification :

1.	LACATION	<b>*</b>
1.7	Longitude : 8	Cental Baguati.  Hatturadu Sankhu, lapsi Medi.
2.	ACCESS	
2.1	Roadhead Airstrip	Mathuandu - Sankhu  ame Location No. of days walk Distance  Mathuandu  Mathuandu  Mathuandu  Mathuandu
2,3	Description of route	· Matheman de - Santille road about 13. oken from
3.	CLIMATE	Rathurander city and 3. o Hac from Sanker to
3.1 3.2 3.3	Mean annual raintair Temperatures Mean daily minimum Mean daily maximum	: 5 ling, mansoon, winter : 1250 mm. : 2°C. January : 28°C. June.
3.4	Evapotranspiration Minimum Maximum	: 2.9 mm/day : 5 70 mm/day
1.	TOPOGRAPHY	
1	1 Main canal 2 Command area	: Terrace & plain area.

5. SOILS

5.1	Soil type	Area (%)	Present Crops
	1. Gravel mixed Soil	15	millel-
	2. Silt loven	So	paday & Wheat
	3 Silt loven 4 Chay loven	35	paddy, wheat & paper.

Seepage/deep percolation 5.2 District data/manuals NA: Side tests, if any

WATER RESOURCES 6.

	Name of source					
	Type of source		perrenia	l		
6.3	Average flows	• :				
6.4	Max. flows	:				
	Month		Min.	Max.	Predicted	
				۸	•	Mean Flow
			m <sup>3</sup> ∕s	m <sup>°</sup> ∕s	mº/s	m <sup>3/8</sup>

6.4	Flow measurem	ents		
•	Month	Flow 1/s	Measured by	Method used

( Not applicable) WATER RIGHTS NA.

Upstreams Name of scheme 1.1

Discharge(1/s)

Area (ha)

 $\overline{1}$ . None .

2. 3.

**4** . 5.

## B. PRESENT SOCIO-ECONOMIC/ORGANIZATIONAL SITUATION Attachment-3

. •	POPULATION  Number of households	: 1400.00	
1.1 1.2 1.3	Total population Ethnic groups	: 14 000.00	
	Name	Percentage	Number
	1. Hewars	7/ 0	10,000.00
	2. Brichmins	12.0	1,500.60
	3. Chetien	5.0	1,000.00
	4. Others	12.0	1500.00
1.4	Migragion Annual migration rates	s NCA applicable.	
		Seasonally	Permanenetly
	Main reasons for migr	ation	
2.	LAND TENURE AND FARM	SIZE	
2.1	Land tenure	Number	Percentage
			70.0
a)	land awners		30.0
	Tenanta		
<i>C</i> ,	1 Tenants Lowners		
	1) Canalens		

Small 0.20ka.

2.2 Farm Size

medicum 0:50 ha.

large 0.80 ha. very large 1.20 ha.

Irrigared (%) Rainfed(%) Total (%)

## FOOD SUPPLY AND MARKET SITUATION

1.1 Food surplus/deficit area: Just Suscicet

Market Sanklu, Jorpati d'Icathurandu

Traded agricultural products:

Type of Product Sold Bought Quantity(kg) Value(NRS)

1. Hone.

2.

3.2

#### ORGANIZATIONS

Irrigation

a. Description present water users group/association, committee, communal, non stock, non profit

Water user's Group.

b. Committee profile

Name Duties Elected/ appointed

Remuneration benefits

Other appt.

c. Functions of the organization Maintenance Type of works

Maintenance

Denitting of Canal

Republics

Type of works

Frequency

Thice is a year

Frequency

Repairs

Minor repair worses.

in per requirement.

Resource mobilization
(A) surgement for resource mobilization

Weinge annual resource required fight WRs! Labor (mandays)

None. 4.2 Other organizations

- PRESENT FINANCIAL COMMITMENTS Total amount of loans taken by existing groups/organization 5. in the command area. None.
- FARMERS COMMITMENT TO THE REQUESTED SUBPROJECT 6.

Written request Agreement is given in their request form. Agreement to cost sharing conditions

Agreement to assume full responsibility for O&M completion of the project. Yes.

Quality of present maintenance works Sea smable maintenance on number Scason. Level of technical difficulty of requested assistance Simple and

#### C. THE SUBPROJECT

PROJECT TYPE : 1. 2. COMMAND AREA Existing Total Raninfed (ha) Irrigated (ha) 150.00 400.00 km.

Extension

..

250.10

## EXISTING IRRIGATION INFRASTURCTURE

3 lesper ha. Canal discharge 3.1

3.2 Duty

Diversion structure Crafed Weir Type 16.0 M. Length

Topographical and geographical conditions of intake wite

Gentle Stating river valley

Main canal 3... Discharge 450 W 1/3 Length 6.0 Km. Linea & unlinear

31 ( 2 ) \$ .

Soil	type	H. rock	M.rock	виз	Chainage	
ні11	slopes	<15 dgr	15-30 dgr	30-45	dgr >15 dgr	
Slide Type	e/erosion	zones		Cl	nainage	
1. 2. 3. 4. 5.			l blooing on tu	unneling		
•	canal st	ructures	k blasing or tu	(IIII C I I I I S	Chainage (M)	
Froje Proje Feas	palsage  - xing  - xing  - bridge  bri	2.0 Km res ~~~ ROUND sted by : es : tudy prep	Budha Bhakta pared by:	sage. Chitraxa	~ d. Thens.	
Head Main	canal Desi	rsion rec	quirement : Con Www.	Ips. elar - la dal - ur	ined condinational	re Seepage

3.6

3.7

Į,

## D. AGRICULTURAL PRODUCTION

EXISTIN	G LAND USE		Ha		% GC
Trricat	ion land	<u> </u>			
	ing		150.0		100.00
b. Mon	isoon				•
_	ter		1200		80.00
Rainfed	i Land ring	•	1.15		50.00
-	nsoon		125.0		60.00
	iter		90.0		6
Forest	/shrub <b>s</b>				
Grazing	g land	•			
Other,	specify				
\ \					
TYPICAL	L ANNUAL CRO	OPPING PAT	TERN AND YIELD	IN THE ARE.	
TYPICAI Crop	L ANNUAL CRO Area ha %	OPPING PAT Yield t/ha	TERN AND YIELD Production tons	Planting D A	
Crop	Area	Yield	Production	Planting D A	Harve T E
Crop	Area ha % 280 70	Yield t/ha	Production tons	Planting D A	Harve T E Oct
Crop  paddy  bheat	Area ha % 280 70 160 40	Yield t/ha	Production tons	Planting D A	Harve T E Oct
Crop  paddy  bheat	Area ha % 280 70	Yield t/ha 3.0	840.0 240.0	Planting D A  June/July  November  Janaary	Harve T E Oct A
Crop	Area ha % 280 70 160 40	Yield t/ha 3.0	840.0 240.0	Planting D A	Harve T E Oct A
Crop  paddy  wheat  patago  oilse cof	Area ha %  280 70  160 40  100 25	Yield t/ha 3.0 /.50 7.0 u.4.	840.0 240.0	Planting D A  June/July  November  Janaary	Harve
Crop  paddy  wheat  patago  oilse cof	Area ha %  280 70  /60 40  /60 25  40 10  ng intensit	Yield t/ha 3.0 /.50 7.0 0.40	Production tons 840.0 240.0 700.00 16.0	Planting D A  June/July November Jancary November	Harve T E Oct A

	** -						
3.	ESTIMAT4 Crop	ED FUT Area ha	rure %	CROPPING Yield t/ha	PATTEN AND YIE Production tons	EDS Planting F DAT	larrest E
	Early paddy	400	100	4.0	1600.60	June/ July	oct/M
	Wheat	140	35	_	280.60	Nuv. oct.	<i>Арчі</i> Тапил
	Early putato	160	40	10.0	/ 600.00 2 v. 00	Nov.	Februa
	oilsceds	40	10	0. 70	1200.00	Jan/Fes	Apri

12000

Second Mato 120 30 1000 Cropping intensity 215 %

# Slope stabilization woks Type

1.2.

3.

4.

5.

.

Main canal structures:
Aqueduct
Superpassage
Escapes
Drop structures
Foot bridge Other

Branch canals

### PRESENT INPUTS

Crop	Seed	Fertilizer	Pesticides	Labor	
	kg/ha	organic chem. Kg/ha	NRs/ha	md/ha 6/9	v/l.
paddy	3 0.0	130 ly (80+30 + 20)	191 20.00	222	45*
Meat-	100.60	90 kg (60+30+0)			40
PHZefo	1000.00	140 mg (80+30+70)	RA 160.00	130	ļυ
oilseed	9.00	43 kg (20+20+0)		90 2	6

### 5. <u>ESTIMATED FUTURE INPUTS</u>

Crop	Seed		Pesticides	Labor	
	kg/ha	organic chem. Kg/ha	NRs/ha	md/ha	bil
E. Paday	30.0	140 ly (100+20+20)	B. 100.60	237.0	41
Wheat	100.00	150 mg (100+30+20)		142.0	٦٢
C. Pigoto	1000.00	240 pg (120+60+60)	) Ro 150.00	150-0	40
nibecds	9.00	40 kg (20+20+0	) —	95.0	26
Second Pufacto	1000.00	24014 (120+60+6		145.0	Ь°

#### E. SUBPROJECT IMPLEMENTATION

### SUBPROJECT IMPLEMENTATION ARRANGEMENT

Method

Type of works

Quantity

Volcentury Contribution

Earn work & land prission & Stone Callection.

Petty contracts Head work, living 4 Cornel, Contin worm & Soucheral worms et.

Medium/large contracts

#### PROPOSED IMPLEMENTATION SCHEDULES

(See attached figure)

#### SUBPROJECT IDENTIFICATION QUESTIONNAIRE

This questionnaire has been developed for use by a team consisting of a junior engineer and senior overseer based in the DOI district offices. The data collected during the course of a brief visit to the proposed subproject site should be sufficient to identify a potential subproject for further study at feasibility level, or to reject the subproject where feasibility seems unlikely due to technical, economic or social reasons. The completed questionnaire is to be forwarded to the District Office for the decision on the subproject future.

should assist the representative group of farmers collection. The nature and purpose for the visit and that the visit is no guarantee of a future subproject should be clearly explained to the farmers.

Subproject Name : Shali Nadi' I.P. Reference No :

central Region

Bagmati Zone

District Hattmander

Village Development Committee Sankhu, lapsiphedi.

Ward Nos.

Topo Sheet No.

Aerial photo No.

Latitude ( X)

longitude ( E) R.C.

Subproject Status

Improvement & extension. New/Improvements/Extension

History of Project (if existing)

With 1881 2042 B.S.

It would HMG; Dept. or irrigation. Is placed a WCC (Yes/Not Yes.

أأنك فالأناف المعارية ويتماك التتعار التناب No. Type of Scheme

surface water/Ground water/Lift Surface Waler

Command Area (ha)

Existing

150,0 ha.

New (or extension) 250.0 /a.

Total area

400.00 /2

Type (Tar, Terrace, Plain, etc.)

f. Water Source

Shaki Nadi

River name (surface or lift scheme) Shale Hade

Flow at time of visit (m<sup>3</sup>/s or 1/s)
Estimated minimum discharge (m<sup>3</sup>/s or 1/s) Estimated base monsoon discharge(m'/s or l/s)

Prior Water Rights.

Describe all farmer managed systems serving the proposed command or with prior rights to the water source. How many households and how much land is served in each system and any potential conflicts? Can agreement be reached on water sharing? Explain.

Catchment Condition

Plain land.

Headworks

dive brief description of river at proposed site (slope, width, bed material, stability, etc.)

Slope - Gentle Slave.

Bed maderial - Gravel mixe & Soil.

Stability - Stable

River width - 16.0 M.

Appace a sketch of the intake site, showing type of intake Proposed

10 Canal S	System
------------	--------

Approximate length of main canal (km)

4.0 km. Brakch\_2.04

Total: 6.0 kms.

Number of natural drain crossings:

- large (> 10 m span) | 0 27%
- small (< 10 m span) 5.0 nm,
- 11 Landslide, Flood and Soil Erosion Problems

Canal Line

Command Area

() Soil crosien problem in Command area.

( 12 ) Problems on Existing Schemes

Discuss with farmers problems with existing schemes and agree priorities for improvements. List these in order of priority:

11 Seepage Control.

vi) Maintenance of line of Comel.

(iii) Extension of Comal length & Command area.

(iv) Repair & maintenance as existing Structure.

13 Soils

Discuss texture and depth of soils with farmers and note general situation in command area and any problems:

Silt Loain, Sandy loan & Gravel mixed Soil.

14 Existing Land Use Within the Command Area

Irrigated land /50.0 (ha) (only in summer)

Railfed crap land for 250.00

Exicat Mail -

Gracing land (%a) -

(400. av sha.

```
irrigated Land
    Spring Crops
                 Yield Monsoon Crop
                                        Yield Winter Crop
                                                              Yield
                                        t/h
                                                              t/ha
(ha)
                                paddy 3.50
                                                              1.60
150.0
                                                              6.0
Rainfed Crop Land
                                paddy 2.40 Profeso 10 400 maize 1.80 Wheat 60 114
                          50
250.0
                          40
    Food Situation
                                                  Just Sufficient.
Is subproject in food surplus or dificit area?
If in deficit for how many months is there
enough food?
                                                MA.
  Land Tenure and Holdings
Tenure type
                  70.0
land owners
             %
Tenants
                  30.0
landless
Average land holding (ha)
                           12.0 ropani
are there any large landowners?
low many G Average land holdig 24.0 ropani.
 Accessibility
                   Kathmander - Shankher.
warest road head
Distance from road head to project site 1.0 km.
In (Terai)
                                          15 minutes, Walk.
                  Porter days (Hills)
   Market Line
Carest market
                                  Distance (km or hours)
```

Existing Cropping Pattern and Yields

= ankhu

0.5 Km.

20 Agricultural Inputs

Item

Nearest source

Distance (km or hours)

Fertilizers

PVI. dealers.

O. Sollin.

Pesticides

PVL. dealers.

0:50 Km.

Improved seeds From farmers thomas clues

21 Extension Services

Nearest Agricultural Service Centre

Distance (km or hrs)

0.50 KW,

Nearest Resident JT/JTA

Distance (km or hrs)

Sankhu

Sanulu

Q. 50 km.

22 Credit

Is the project area under SFDP?

Yes/No No

Nearest ADBN

Distance (km or hrs)

Tnerayani

2.0 km.

Number of Beneficiaries in the Command Area (the identification teams' own estimate) 2500

Number of households by ethnic group

Ethnic group

Households

Newara

1000.00

Brahmina

150,00

\_\_\_\_\_

100.00

Chhari

Olhero

150.00

People (population in project area /4000.00

If this differs from figure given - We. in the request form, thy?

21 Farmers' Attitude in Project

The state of the property of the process of

With district irrigation office regarding project implementation,

Are farmer prepared to enter ito agreement with Gov	vernment to:
(a) provide land free of cost for canal lines:	YES
(b) contribute their share of cost according to Government policy*:	YES
(c) participate in the construction process:	YES
(d) assume project responsibility after completion of construction or rehabilitation	YES
(e) construct tertiary, quarternary and field channels at their own cost and/or, with their own labour:	YES
* Indicative Proportions of Government's and Contribution to Capital Costs for Surface Water Sch	hemes <u>d</u> /
Farmers' Contrib	ution
Unit Cost of Government	Max. Min.
Construction Contribution Total Cash Labor a/  As per cent of total cost  2. 3.	(KS/NA)(KS/NA)
a/ Labor contribution can also be in cash, loan or land)	
b/ Generally applicable to subprojects located in T g/ Generally applicable to subprojects located in t Romote Hills.	erai he Middle and
i/ For shallow tubewells and power pumps the Govern contribution is 10% of total cost and the farmer feash/loan) is 60% of total cost.	ment
contribution is 10% of total cost and the farmer	ment
contribution is 10% of total cost and the farmer (cost/loan) is 60% of total cost.	ment s contribution

Signatures

Date of reporting

Larman kd Singh Engineer 6 Aug. 1993.

Overseer

26 People Met During Visit (1) Hr. Buch-Blanch Chiketter - Suntile - 1

(ii) Hr. Krishna-Bhanta Shrentha - Lapsifhedi-1

viii Mr. Madan Bahadur Shrentha - Lapsifhedi-1

27 Recommendations (iv) Mr. Krishna raj Subceli - Suntele-8

First of all the source is perennial and beneficiaries are also very much enthusiastic towards the project. As they ar ready to contribute cash as well as manual labour for the project. Thefore, the project is recommeded for This programme.

His Majesty's Government
Department of Irrigation
CENTRAL REGIONAL IRRIGATION DIRECTORATE

District Irrigation Office
Bhaktapur

Identification Survey of Mahadev Khola Irrigation System

#### Report

VDC :
District :
Zone :
Region :

Dadhikot Bhaktapum Bagmati Central

> Bhaktapur July, 1993

The fellowing are the conclusion and recommendation regarding the project.

- 1. This project is a historical one and it has been maintaining and operating by government side. As per the field visit and discussion with the local people they are habituated by birth and stamp in mind that such projects shold be up-greded and sperated by the D.I.B. and not by themselves. They feel that they are not able to maintain and operate this system.
- 2. Due to Illiteracy, socio-economic problem as well as positical influence it is very much difficult to unite the different groups in to a gingle group of water users. They understand every thing, but due to lack of coordination and local disputes no one cooperateeach other.
- 3. After the implementation of I.S.P. projects it is clearly reflected that the area wherethe Newer people are dominant there is the better performance in peoples participation and coordination between them as well as they try to keep better relation—ship with the Government agencies.On the other hand most of the Brahimins and Chhetri are of the contrast nature.It could be known by them selves, who are of cooperative nature.
- 4. It is most essential task to up-grade the old historical projects of Bhaktapur districts and is a most difficult task to turnover the projects to the water users group (W M A) after is completion without a vest programme of motivation inhancement of awareness and free interaction between the users and the agenties before the implementation of the project.
- 5. It is mentioned in the request form that they are not iterated to have any cost sharing of the project in the form of habour and cash. In this situation it is difficult and unnecessary to impose any project over the people.
- fraction of the projects cost in the form of lebour and eash, but it has become very much difficult in the running projects to collect the labour contribution during the period of construction there fore it is recommended to provide a clear/controlling measure which would be helpful for the physical progress of the project.

#### SALIENT FEATURE

- 1. Name of System
- 2. Sub project classification
- 3: Village Developement board
- 4. Ward no
- 5. District
- 6. District head Quater
- 7. Zone
- 8: Developement region
- 9. Total main canal length
- 10. Idla length
- 11. No of branch canal
- 12. Total langth of branch
- 13. Type of camel
- 14. Gross command area
- 15. Net command area
- 6. Name of source
- 7. Type of source
- 8. Canal design discharge
- 9. Side slope of canal
- O. Bed slops
- 1. Doiversion etructure
- . Catchment area
- Maximum wiver discharge

- : Mahadev khola Irrigation System
- : Hill
- : Dadhikob and Balkot
- : Dadhikot 3,4,5,6 Balkot 9to1
- : Bhaktapur
- : Bhaktapur
- . Bacmati
- Central
- : 5112m
- : 458m
- : 20-
- : 6110m
- : Lined and unlined
- : 347 ha ( Proposed)
- : 200 ha (dayeloped)
- : Mahadey khola
- : Perinnial
- : 500 lit/acc
- Verticle.
- : Natural bed (1:200)
- . Permanant
- 432 k.m"
- : 40m

•	MALIANCE A MURICIA TONTO ATTONTO	fer	ence Nr:	
Subj	Project Name: MAHADEV KHOLA .IBRIGATIONRO			•
1	Subproject Location		CENTRA	L
	Region		BAGMA	
	Zone		BHAKTA	PUR
	District Village Pancheyat Day, COMMITTEE.	·.	MADHIK	OT AND BALKOT.
١	Ward Nrs		72 E/6	
	Topo sheet Nr			
-	Aerial photo Nr	٠.	. 8902-1	<u> д</u> д
	Latitude (°N)		******	
. • •	Longitude (°E)			******
1	Subproject Status	•	IMPROV	EMENTS
	New/Improvements/Extension			
, Š.	History of Project (if existing)			2012 B.S
٠,	ւ Միարույի է։ Միարույթիանե		•	
			M .W. G.	

	ANNEX D Page 2
Is there a WUG? (Yes/No)	Yes (but not legal)
Are there any shallow tubewells in the subproject area?	no .
Type of Scheme	1
Surface water/Ground water/Lift	Surface water
Command Area (In)	
Existing	347
New (or extension)	
Total area	34.7
Type (Tar, Terrace, Plain, etc.)	nielq-bne.aserzel.zel
Water Source	
River name (surface or lift scheme)	. Mahadev khola (Surface)
Flow at time of visit (m'/s or l/s)  Estimated minimum discharge (m'/s or l/s)  Estimated base monsoon discharge (m'/s or l	
Prior Water Rights	
Describe all farmer managed systems serving prior rights to the water source. How many is served in each system and any potential reached on water sharing? Explain.	households and how much land
There are notany farmer's managed s	rstem in this source
Catchment Condition	
Thin, bush Agricultrust land; and jun	gle
· · · · · · · · · · · · · · · · · · ·	***********
lleadworks	
Give brief description of river at propo- material, stability, etc.)	sed site (slope, width, bed ,
Hillily . river. Appromately: 4:30 slpp	e narrou width and gravel

mixedepil.as.a.bad.material.of.river.

ANNEX D

•		
:	Prepare a sketch of the intake site, showing	ng type of intake proposed .
10	Canal System	•
	Approximate length of main canal (km)	Idle:458m
		Total <b>5112</b>
	Number of natural drain crossings:	
:	- large (> 10 m span)	no
	- small (< 10 m span)	••••••••••••••••••••••••••••••••••••••
11	Landslide, Flood and Soil Erosion Problems	
: •	Canal Line	•
	At chainage of 0+240 2 23 m leng land	slide area is de veloped do
	last year a lot of repairing work i	s required.
	Command Area	
u <b>4</b>	Tar Terrace and plain area are the m	ain nature of
<u> </u>	Command area	*******************
12	Problems on Existing Schemes	
	Discuss with farmers problems with existing a for improvements. List these in order of pr	schemes and agree prioritics
 	Land slide/control fland seepage are	the main problems of the
! ! ! !	area as well as other maintinence.	works. are inecessary
b.	f	******
	•••••	*****
		*******
	Goils	
. D	Discuss texture and depth of soils with situation in command area and any problems:	farmers and note general *
* * * * * * * * * * * * * * * * * * *	Sandy loam is the dominant soil in	the command area and it
•	is found im to 3 m, depth	

- ANNEX D Page 4

14	Existing Land Use Withi	n the Command Area				
	Irrigated land (ha)		347			
	Rainfed crop land (ha)		pg			
۹.	Foresc (ha)	ı'				
	Grazing land (ha)					
,	Total (ha)		347	ha		
15	Existing Cropping Patte	rn and Yields				
	Irrigated Land					
Area (ha)	Spring Crops Yield	d Monsoon Crop	Yield	Winter Crop %	yield	
347		1.00%	.3. to 4	ton		
347				100%	3 to 4 to	ז נ
	1				•••••	
•	Rainfed Crop Land				••••	
	2				••••	
	***********	•				
	Food Situation	• • • • • • • • • • • • • • • • • • •				
	is subproject in food s	urplus or deficit ar	ca?	equal	*,* * * * *	
•	If in deficit for how me enough food?				• • • • •	
17	Land Tenure and Holding	s		; ; ;		•
	Tenure type	: .	•			
	Land owners %	0%				
1	Tenants %	8%			• •	
	Landless %			,		
۰۰۰ س	Average land holding (h	a)	• •			
	Ace there any large lan	idowners? ne				
	How many	Average land 5 - 147	notaing		•	

ANNEX D Page 5

18	Accessibility				
¥	Nearest road head th	ing Commental ST.81	3		s.middle.
	Distance from road I	read to project si	te>		
,	Km (Torai)	Porter d	ays (Hills) . X		
19	Marketing				
	Nearest market	Dist	nnce (km or hou	ırs)	
	Thimi		З · k • m . · · · ·		
20	Agricultural Inputs			-   -	
	Item ,	Nearest source	Distanc	e (kin or	hours)
	Fertilisers	Thimi	~	ks.m.	:1
	Pesticides				
	Improved seeds		• • • • • • • • • • • • • • • • • • •		
2.1	Extension Services				
•	Nearest Agricultural	Service Centre	Distance	km or	hrs.)
•	Thimi and kathmen			, 8	ĺ
•	Nearest Rsident JT/JT	A	Distance		
	Bhaktapur			i m.	
22.	Credit				<u> </u>
•	Is the project area un	nder SFDP?	Yes	/No no /	
	Neacost ADBN branch		Distance	$\Gamma_1 = \Sigma_1$	. '
	Bhaktapur		· · · · · · · · · · · · · · · · · · ·	6 k.m.	• • • •
23	Humber of Beneficiario	es in the Command	Λrea (the ide	ntificat	ion teams
	Number of households b	y ethnic group	. 4		
•	Ethnic group		Household	s	
	. Manay		4.225. 1	i o	
	.ehhetri				
	Bramins			•	•
	. OTTOV		,,,,,,,,		• •

Annex-5 Attachment - 4 ANNEX D Page 6

People (population in project area)

If this differs from figures given in the request form, why?

Farmers' Attitude to Project

General interest in project:

Enthusiastic/Good/Fair/Poor; explain why

A long interaction is necessary between users group and project

Are farmers prepared to enter into agreement with Government to:

- provide land free of cost for canal lines;
- contribute their share of cost according to (b) Government policy\*;
- participate in the construction process
- assume project responsibility after completion of construction or rehabilitation; (d)
- (e) construct tertiory, quaternary and field channels at their own cost and/or with their own labour

\*Indicative Proportions of Government's and Farmers' Contribution to Capital Costs for Surface Water. Schemes

Farmers' Contribution

. 15350-0

		· · · · · · · · · · · · · · · · · · ·	
	العد يصدر نميد ود و شيبي		Max Min
Unit Cost of	Government Contribution Total	Cash Labora/	(Rs/ha) (Rs/ha)
Construction	Contribution Total	C4511	
COMPETITOR			
	As per cent of t	otal cost	
ь/		5.0 20.0	2,500
$1000 \text{ than } 10.000^{10}$	75 42		3,000 2,500
1. tess than to by	85 15	~ · · · · · · · · · · · · · · · · · · ·	
1. less than $10,000^{\frac{b}{2}}$ 2. $10,000-20,000^{\frac{c}{2}}$	0		71000
20,000-40,000	91 . 2	^ * * * -	4,200 3,600
1. 311,000 min, 000 /	03 - 7	1.0. 6.0	
4. 40,000-60,000 <sup>c</sup> /	yJ		
			:

Mabor contribution can also be in cash, loan or in kind (e.g. land).

b/Generally applicable to subprojects located in Terai.

Generally applicable to subprojects located in the Middle and Remote Hills.

 $\frac{d}{d}$  For shallow tubewells and power pumps the Government contribution is 40% . of total cost and the farmers contribution (cash/loan) is 60% of total cost.

25	Subproject Identifica	ation Visit	
	Subproject visited by	D. R Pokhrel.	D.Viphwakarma. Overseer
	Date of visit	50/1/30	
•	Signatures	Date of reporting	
	Deni	do-3-050	
•	Engineer		
	Overseer		
26	People Met During Vi	sit	
	1) Purns praead Ne	eupane · · · · Viliage ch	airman
	2).Ramji.Arasad-Ne	upaneChairman (	user group)
	4) Prakaah Neupan	度.,,	• • • • • • • • • • • • • • • • • • • •
27	Recommendations		
٠	•	or implimentation	
	****		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

#### ANNEX - 6

## AGRICULTURAL DEVELOPMENT AND FARM ECONOMY

## ANNEX - 6

## AGRICULTURAL DEVELOPMENT AND FARM ECONOMY

## **Table of Contents**

				page
1.	AGR	ICULTU	RAL DEVELOPMENT PLAN	6 - 1
	1.1	Basic C	Concept	6 - 1
		1.1.1	Development Needs	6 - 1
		1.1.2	Agricultural Development Strategy	6 - 2
		1.1.3	Basic Development Plan	6 - 2
	1.2	Propos	ed Cropping Pattern	6 - 3
		1.2.1	Basic Concept of the Proposed Cropping Pattern	6 - 3
		1.2.2	Proposed Cropping Pattern	6 - 4
	1.3	Propos	ed Farming Practice	6 - 6
	1.4	Anticip	pated Yields and Production	6 - 9
	1.5	Crop B	Budget and Irrigation Benefits	6 - 10
	1.6	Farmer	rs' Economy	6 - 11
2.	REC		IDATIONS	6 - 13
	2.1	Genera	d	6 - 13
	2.2	Organi	zation of Vegetable Growers Group	6 - 13
	2.3	Establi	shment of Vegetable Collection Centres	6 - 13

## List of Tables

			page
Table	6 - 1	Monthly Labour Balance under With Project Condition in	
		Each Scheme	6 - 15
Table	6 - 2	Summary of Future Labour Balance in Each Scheme	6 - 20
Table	6 - 3	Planted Area and Cropping Intensity with Project Condition	6 - 22
Table	6 - 4	Planted Area under Without and With Project Condition	6 - 23
Table	6 - 5	Summary of Recommended Farming Practices	6 - 24
Table	6 - 6	Recommended Varieties of Vegetables	6 - 25
Table	6 - 7	Anticipated Unit Yield With Project Condition	6 - 26
Table	6 - 8	Unit Yield and Production under Without and With Project Condition	6 - 27
Table	6 - 9	Financial Cost and Return under Without and With Project Condition	6 - 28
Table	6 - 10	Economic Cost and Return under Without and With Project Condition	6 - 30
Table	6 - 11	Financial Irrigation Benefit under Without and With Project Condition	6 - 32
Table	6 - 12	Economic Irrigation Benefit under Without and With Project Condition	6 - 33
Table	6 - 13	Net Farm Income Without and With Project Condition	6 - 34
Table	6 - 14	Farm Budget of Typical Farm in Each Scheme	6 - 35
Table	6 - 15	Farm Budget of Typical Farm in the Project Areas	6 - 48
		List of Figures	
		·	page
Figure	6 - 1	Criteria and Procedure of Evaluation for Crop Diversification Potential	6 - 49
Figure	6 - 2	Proposed Cropping Pattern	6 - 50
Figure	6 - 3	Vegetable Cropping Rotation Menu	
Figure	6 - 4	Cropping Rotation Calendar for 2 years	6 - 56

## 1. AGRICULTURAL DEVELOPMENT PLAN

## 1.1 Basic Concept

## 1.1.1 Development Needs

HMGN has made efforts to promote agricultural development in conformity with the objectives of the Eighth Five Year Plan (1992 - 1997) and top priority has been given to the development of the agricultural sector. The program which aimed at attaining national self-sufficiency in food production will be continued. Together with the achievement of self-sufficiency in cereal crops, agricultural diversification towards cash crops, fruit, vegetables, and livestock will be emphasized, taking into consideration the comparative geographical advantages, transportation facilities, market accessibility as well as the supply and demand conditions.

The selected 13 model schemes are located in the high potential area for agricultural production, which is blessed with favourable soil and climatic conditions. In addition to these natural conditions, farm inputs, markets, technical information, and services are easily available in the Project Area. Farmers in the Project Area are carrying out farming practices at a higher level than any other area in Nepal although the average holding size is as small as 0.24 ha.

As mentioned above, agriculture in the Project Area is far more developed than in any other region in Nepal in relation to productivity and technology adopted. And this area would be expected to play an important role as a food supply base to the Kathmandu metropolitan area, as well as a model area for commercialized agriculture.

Development needs of the Project are assessed from the viewpoints of (1) production stabilization, (2) crop diversification, and (3) socio-economic condition. The conclusions are summarized below:

#### (1) Production stabilization

Agriculture in the Project Area mainly depends on the rains due to the superannuated and damaged condition of facilities of the selected irrigation schemes. There is considerable variation of rainfall year by year. Most of the annual rainfall occurs during the rainy season from June to September and is affected by erratic climatological conditions. These are main factors causing unstable production in the Project Area.

Due to the superannuated and damaged condition of existing irrigation facilities, the water source of each scheme is not used effectively and irrigation water is insufficiently distributed. In addition to this, demand for domestic water supply is increasing recently.

Each irrigation scheme can supply supplemental irrigation water to farmlands, however, even supplemental water can be distributed, it is important to stabilize farm production. Therefore, rehabilitation and improvement of those schemes are urgently required.

# (2) Crop diversification

At present, the main crops in the Project Area are paddy and wheat. Potatoes and beans are also grown to some extent. The yields of these crops are higher than those in other areas. However, most of the farmers in the Project Area have not yet introduced vegetable farming due to the shortage of irrigation water in the dry season and at the beginning of the rainy season.

Moreover, crop intensity in the Project Area is limited because of the shortage of irrigation water, but the Project Area has abundant potentials for full agricultural development.

It is envisaged to diversify the crops into high value crops and to increase the cropping intensity for economical development of this area through the stable and continuous irrigation water supply.

## (3) Socio-economic condition

Rapid urbanization is going on and influences the agricultural condition in the Project Area. Especially it causes a rapid increase in urban food demand, not only cereal grains but also vegetables and so on, which depend on the supply from other areas including importations at present. On the other hand, farmers in the Project Area are having more job opportunities than other areas and rural people are increasing non-farm income.

Meanwhile, there is every indication that many farmers living near the urbanized areas are going to sell their farmland for housing or to rent it for brick making. This causes a rapid decrease of good farmlands.

In order to meet the urban food demand, the Project Area should play an important role as a food supply base to the Kathmandu metropolitan area, especially fresh vegetables and high value crops. It is necessary to keep superior farm areas as a base of supply of fresh vegetables to the Kathmandu metropolitan area and to ensure higher income to the farmers by introducing high value crop cultivation. It is also recommended to create intensive agricultural areas such as "green belts".

## 1.1.2 Agricultural Development Strategy

Considering all the above mentioned factors, the basic concept of agricultural development under the Project is set as follows:

- (1) To maximize the potential agricultural benefits through the efficient use of limited water and land resources.
- (2) To maintain the agricultural areas and increase the crop intensity for supplying vegetables to meet the increasing food demand in Kathmandu.

In order to achieve these objectives, the strategy for agricultural development under the Project is as follows:

- (1) To maintain a stable amount of cereals for self-consumption which minimize the cereal production area by maximizing the unit yields of cereal crops through the provision of stable irrigation water.
- (2) To expand the cultivated area of vegetables by maximizing the efficiency of irrigation water supply.

## 1.1.3 Basic Development Plan

The basic approach to future farming in the Project Area is formulated based on the development strategy for the efficient use of available land and water resources through the rehabilitation of the irrigation schemes.

From the viewpoint of increasing agricultural income of the farmers, agricultural production should be commercialized by diversifying crops into high value crops such as vegetables. In order to diversify crops, it is necessary (i) to provide a stable supply of irrigation water, (ii) to distribute the irrigation water smoothly to the whole area, and (iii) to increase the cropping intensity.

## 1.2 Proposed Cropping Pattern

## 1.2.1 Basic Concept of the Proposed Cropping Pattern

The potential for crop diversification of each of the selected model schemes has to be evaluated and the farmland are classified into two types, the "Intensive-area" type and "Remote-area" type. Moreover, taking into consideration the detailed water availability conditions, these types are further classified into the following five types.

Intensive-I area:

This area has the highest potential for agricultural development and it should become a model agricultural area. Farming in this area should be converted to high value crop cultivation under the fully irrigated condition. The most intensive cropping pattern should be adopted in this area. About half of the area will be used for vegetable cultivation three times a year, including green leaf vegetables. It is desired that this area will be kept as an intensive agricultural area.

Intensive-II area:

This area also has high potential for agricultural development. But water availability is less than in the "Intensive - I area". In the dry season, the cropping intensity will be kept lower in order to save water.

Intensive-III area:

From the viewpoint of land suitability and socio-economic condition, this area has also the potential of introducing vegetable farming. However, water availability is the least among the Intensive areas. In the dry season, the cropping intensity will be kept lower than the Intensive-II area in order to save water.

Remote-I area:

Most of this area is located far from access roads and villages, so it is difficult to manage the farmland under the most intensive cropping pattern and it takes time to carry the products to the market. The area extends in the lowest water distribution area. Its topographic condition also is not so suitable for fresh vegetable cultivation. Drought-resistant crops such as legumes and bulb crops would be introduced in this area.

Remote-II area:

This is the driest area among the "Remote" type areas. In this area, irrigation water is insufficient in the winter season, mainly in February or March. Winter crops, which grows for shorter growing period than above, would be introduced just after harvest of summer season crops, so that they would be harvested before February or March.

In the evaluation of the potential for crop diversification, each scheme is subjected to a screening based on a variety of factors. For this purpose, the following four main factors are taken into account:

- Water resources availability
- Land suitability
- Accessibility to market areas
- Socio-economic conditions

Water resources evaluation is based on information collected during the farm survey. Land suitability depends mainly on the topographic condition of the farmland and accessibility based on the distance to the main markets and the condition of roads. Socio-economic conditions are evaluated according to the degree of urbanization, industrialization such as brick factories, and farmers' attitude and preference to move towards a diversified cropping pattern. The evaluation flow chart is shown in Figure 6-1.

As a results of above evaluation, the farmland of each scheme is divided into two parts, "Intensive-type" area and "Remote-type" area, and indicated as a combination of these two farmland types and their extent.

## 1.2.2 Proposed Cropping Pattern

Considering the basic strategy for agricultural development under the project, vegetables in addition to paddy, wheat, and potatoes have been selected as the main crops in the framework of the proposed cropping pattern. A basic cropping pattern has been selected for each farmland type area by taking into account the following factors:

- the water requirement based on the availability of irrigation water during the dry season
- present faming practices and crops
- availability of family labour, and
- socio-economic conditions

These basic cropping patterns, summarized below and shown in Figure 6-2, would be introduced after the irrigation schemes are rehabilitated.

Farmland type	Annual Cropping Pattern			Rate of Applied Are
Intensive-I area				
	Paddy	- Potatoes	- Potatoes	(25%)
	Paddy	- fallow	- Potatoes	(25%)
	Summer Veg.	- Winter Veg.	- Green Leaf Veg.	(50%)
Intensive-II are	a.			
	Paddy	- Potatoes	- fallow	(25%)
	Paddy	- fallow	- Potatoes	(25%)
	Summer Veg.	- Winter Veg.	- Green Leaf Veg.	(50%)
Intensive-III are	<b>a</b>			•
•	Paddy 5	- Potatoes	- fallow	(25%)
	Paddy	- fallow	- Potatoes	(25%)
	Summer Veg.	- Winter Veg.	- Green Leaf Veg.	(25%)
	Summer Veg.	- Winter Veg.		(25%)
Remote-I area			and the second	
A SA A SA	Paddy	- fallow	- Potatoes	(25%)
1 1	Paddy	- Legumes	And the second	(25%)
•	Summer Veg.	- Bulb crops		(25%)
	Summer Veg.	- Winter Veg.		(25%)
Remote-II area		and the second s		
ATOMICOU AL MIVO	Paddy	- Early Potatoes		(25%)
	Paddy	- Legumes		(25%)
	Summer Veg.	- Bulb crops		(25%)
	Summer Veg.	- Winter Veg.		(25%)

The cropping pattern of each scheme is determined by taking into account profitability, peak water requirement, and labour requirement. The water balance study is described in Annex 5 (Section 3.2.1).

As for the future labour requirement, even at the peak requirement period in early November, 43% of the total available labour force will be participating under the "with" project condition after the introduction of the proposed cropping pattern as shown in Table 6-1 and summarized in Table 6-2.

The planted area under the proposed cropping pattern for each scheme is shown in Table 6-3. The planted area under "without" and "with" project conditions is shown in Table 6-28 and summarized below. The average cropping intensity of the 13 schemes is 226%, ranging from 208% for the AB-12 Kutudhal and AB-14 Mahadev Khola schemes to 248% for the AK-25 Shali Nadi scheme.

Unit: ha

Crops	Without Project	With Project
Paddy	1,616	864
Wheat	1,184	0
Maize	91	0
Mustard	163	0
Legumes	65	268
Early potatoes	22	212
Late potatoes	22	130
Potatoes	185	383
Summer vegetables	0	864
Winter vegetables	0	603
Green leaf vegetables	0	309
Bulb crops	0	261
Total planted area	3,349	3,894
(Total Intensity)	194%	226%

For vegetable farming, a "Cropping menu" is prepared, as shown in Figure 6-3. Growers may be selected for each cropping menu according to the marketing demand.

In the Intensive-I area, the overall cropping intensity is calculated to be 275%. The cropped areas allocated under the proposed cropping pattern will be 50% for paddy and 50% for summer vegetables in the rainy season and 25% for early potatoes, 25% for late potatoes, 50% for green leaf vegetables, and 50% for winter vegetables in the dry season. The cropping intensity of each crop is as shown below:

Unit: %

Crops	IntI	IntII	IntIII	Remote-I	Remote-II
Paddy	50	50	50	50	50
Legumes	0	0	0	25	25
Early potatoes	25	0	0	0	25
Late potatoes	25	25	25	0	0
Potatoes	25	25	25	25	O
Summer vegetables	50	50	50	50	50
Winter vegetables	50	50	50	25	25
Green leaf vegetables	50	50	25	0	0
Bulb crops	0 :	0	0	25	25
Total Intensity	275	250	225	200	200

It is recommended that farmers in the Project Area introduce a two year crop rotation in order to reduce the risk of disease and the number of pests. For the successful cultivation of vegetable crops through the judicious use of land at the proper time, in order to obtain maximum yields, certain vegetables are rotated. The proposed crop rotation plan for the Project Area is illustrated in Figure 6-4. Crop rotation in the Intensive - I area is shown below:

1st crop year	2nd cr	op year	Intensity
- Paddy - Early potatoes - Late potatoe	- Summer veg Winter ve	eg Leaf veg	(25%)
- Paddy - (fallow) - Potatoes	- Summer veg Winter ve		(25%)
- Summer veg Winter veg Leaf veg.	- Paddy - Early potatoes	- Late potatoes -	(25%)
- Summer veg Winter veg Leaf veg.	- Paddy - (fallow)	- Potatoes -	(25%)

The advantages of crop rotation are summarized below:

- Reduces the risk of disease and the number of pests
- Maintains the soil fertility balance
- Impedes the weed problem

## 1.3 Proposed Farming Practice

As the expansion of cultivated area of vegetables is one of the major strategies for agricultural development under the rehabilitated irrigation schemes, introduction of an improved farming practice for the vegetables is proposed.

The unavailability and lack of irrigation water coupled with the lack of technical know-how regarding the production of vegetables are the main problems in the Project Area. The farms in the Project Area are characterized as small-scale, high labour intensity, and high fertilizer application farms. Farming is more suitable to high value and high labour intensive crop production such as vegetables. Three crops per annum could be produced if irrigation water was available throughout the year. The farming practices proposed for the vegetables are outlined in the following paragraphs. A summary of the recommended practices are presented in Table 6-5.

## (1) Seedbed Preparation

Immediately after harvesting previous crops, the land should be plowed using a turning plow. At least one month before planting begins, well rotted compost should be spread evenly over the area.

Soil in the seedbed should be 15 cm in depth, 1 meter in breadth, and 6 m in width and length. The size of seedbeds can be adjusted according to the formers' need. There should be a distance of 30 to 40 cm between each bed. Beds should be cleaned by removing stubble, weeds, clobs, and levelled. 5 g of chemical fertilizer, such as urea, complex, and potash, per square meter should be well mixed with the soil.

It is also recommended that deep plowing after every two or three years be carried out in order to move lower soils upward and upper soils downward and to prepare fine seedbeds with fertile surfaces.

## (2) Farm Input Application

The introduction of improved seeds is essential for increasing crop yields. Not only the variety but also the quality of the seeds influence crop yields. Improved varieties of each vegetable crop recommended by the Vegetable Development Division are shown in Table 6-6 and summarized below:

Crops	Varieties
Cauliflower	Kathmndu, Snowball, Pusa Deepali, Kibo Giant
Cabbage	Copenhagen Marhet, Pride of India, Late Large Drum Head
Radish	Mino Early, White Neck, Pyuthane Red, 40-days, Tokinash
Carrot	Nantees, New Kuroda
Turnip	Purple Top
Tomato	Pusa Ruby, Monprecos, Chinese, Roma, pusa Early Dwarf,
	Cold set, CL-1131
Chilli	Pusa Jwala, NP46, Kathmandu
Brinjal	Pusa Purple Long, Sarlahi Green, Nurki, Pusa Kranti
Broad leaf mustard	KBL, Marpha Broad Leaf
Spinach	Patane
Onion	Red Creole, Light Red, Dark Red, Nuwakote
Cucumber	Kusume, Local, Pointset

The following fertilizer application rates are recommended for attaining the target yields of the respective crops:

Crops	Seeds	Fe	ertilizer (kg/h	a)	Compost
	(kg/ha)	Complex	Urea	Potash	(ton/ha)
Cauliflower	0.7	300	90	40	20
Tomato	0.5	300	90	133	10
Broad leaf mustard	6.0	200	133	66	10
Onion	10.0	200	45	85	10

Nitrogen gives the plant a dark green color, promotes rapid plant growth, enhances the quality of the leaf, and increases yields. Phosphorous stimulates early root formation, hastens maturity, stimulates flowering, and aids seed formation. Potassium increases vigor and disease resistance of the plants and improves the quality of fruits. Organic manure such as compost is important in the successful cultivation of all crops. In order to maintain the organic matter / fertility of the soil not only compost will be applied, but the crops will also be rotated with leguminous crops.

Fertilizer application for root crops is recommended to be carried out by broadcasting after ploughing. Fertilizers for fruit crops and leaf crops are to be applied between plant rows by mixing with compost to prevent the loss of elements.

#### (3) Sowing and Planting

There are two seedling techniques for the proposed farming. One is to prepare seedlings in a nursery bed, and thereafter, to transplant the seedlings in a main field. This practice will be applied to cole, fruit, cucurbit, leaf, and leguminous crops. The other farming technique is direct sowing in the main field. This technique will be applied to root crops.

In the case of the preparation of seedlings, kinder seedlings should firstly be grown in small beds with shade roofing, and then transplanted in a nursery bed which has sufficient space. Seedlings will be transplanted in the main field with a recommended space, at about 30 days after they have been sown.

Under the direct sowing method, control of the number of seedings by thinning out them, will be required after they have grown to some extent.

#### (4) Water Management

Due to the limitated amount of water available in the Project Area, farmers should adopt water management practices, i.e. when, how much, and methods to supply it. For this

reason, farmers' groups organized under the same terminal irrigation block should discuss and determine the irrigation schedule and the amount of water to be supplied.

The first irrigation for vegetables should be done quickly with a little quantity till the seeds germinate and plants survive, and the subsequent irrigation should be done according to their requirements.

## (5) Plant Protection and Weeding

As for the plant protection measures, the intensive application of insecticides and fungicides is required in order to control and protect crops from the damage caused by insects, pests, and diseases. At present, damage of crops, not only vegetables but also other crops is not so serious. In order to control insects and diseases, the following measures will be taken:

- Destruction of refuse and plants harboring insects and disease
- Eradication of affected plant parts and plant
- Ploughing of the farmland
- Rotation of crops
- Utilization of clean planting materials
- Adjustment to the sowing or planting time
- Utilization of resistant varieties
- Treatment of seeds for controlling insects and disease
- Regulation by soil treatment
- Application of chemicals

In order to keep vegetables free from attack by insects and disease, farmers should inspect the vegetable fields regularly, at least three times a week. This helps vegetable growers to take the necessary actions against insects, pests and disease, on time. When vegetable cultivation is introduced on a commercial basis, it will be necessary to apply agro-chemicals properly for pest and disease prevention. For applying of agro-chemicals to the fields, a knapsack type sprayer is used and is easily managed by farmers.

Weeding is one of the essential works to be done according to the proposed farming practices for crop protection. After seeding and transplanting, weeding would be carried out two or three times, depending on the condition of the weed growth.

#### (6) Harvesting

Harvesting will be carried out manually by the farmers labour force since the capacity of the labour force in the Project Area is large.

## 1.4 Anticipated Yields and Production

After the Project has been completed, it is envisaged that the unit yields of crops will become stabilized and will increase due to the continuous and proper supply of irrigation water. The unit yields of crops in the case of "with Project" are estimated on the basis of the trainers' manual prepared by the HMGN and the farm survey results. The trainers' manual sets out a recommended practice for all crops and presents a range of unit yields. Vegetable yields in areas surrounding the Project Area, such as "Thimi", represent the typical unit yields in advanced vegetable cultivation areas under full irrigation in the Kathmandu Valley. Then, the vegetable yields in advanced vegetable cultivation areas. The unit yields of paddy and legumes in these areas have already attained a high level compared with other areas in Nepal, therefore the anticipated unit yields of these crops are set at a slightly high level, considering the proposed proper water management under the Project.

In the "without" Project condition, the future anticipated unit yields of crops are set at the same level as the present unit yields which are estimated based on the results of the farm survey. It is believed that the present constraints which are responsible for the water shortage, remain unchanged.

The anticipated unit yields under the future "without" and "with" Project conditions are estimated in Table 6-7 and summarized below:

			Unit: ton/ha
Crops	Present Condition	Without Project	With Project
Paddy	4.2	4.2	5.2
Potatoes	10.0	10.0	15.0
Early & Late potatoes	8.5	8.5	12.0
Broad beans	1.4	1.4	1.5
Cauliflower	15.9	-	16.0
Tomatoes	12.0	-	12.0
Broad leaf mustard	19.6	<b></b>	20.0
Onions	18.3	-	18.0

Based on the crop yields mentioned above, the anticipated crop production in the case of "with" and "without" Project in each scheme is estimated as presented in Table 6-8 and summarized below:

			Unit: ton
Crops	Without Project	With Project	Balance
Paddy	6,840	4,490	- 2,352
Wheat	2,340	0	- 2,340
Maize	130	0	- 130
Mustard	100	0	- 100
Legumes	70	390	310
Potatoes	2,230	8,750	7,630
Vegetables	0	30,710	30,710

Vegetable yields will increase gradually due to the farmers' accumulation of experience and knowledge regarding vegetable cultivation. Farmers in the Project Area can easily obtain information and knowledge from surrounding vegetable pocket areas. It is expected that the unit yields will attain the anticipated level five years after the completion of the irrigation Projects.

## 1.5 Crop Budget and Irrigation Benefits

Based upon the proposed farm input requirements under the "without" and "with" project conditions discussed in section 1.3, the financial and economic crop budgets for respective crops are elaborated in Table 6-9 and 6-10, respectively. A summary of the financial crop budget is presented below:

Unit: NRs per ha

	1	Vithout Proj	ect	1	With Project	
Crops	Gross Income	Production Cost	Net Return	Gross Income	Production Cost	Net Return
Paddy Wheat Maize Mustard Broad beans Garden peas	39,280 16,400 11,290 10,130 16,320 13,040	9,944 7,823 4,211 2,352 3,770 1,365	29,337 8,578 7,080 7,778 12,551 11,675	48,280 18,000	12,558 4,715	35,722 13,286
Early & Late potatoes Potatoes	59,500 70,140	20,811 20,811	38,689 49,329	77,000 91,000	32,970 32,970	44,030 58,030
Summer vegetables* Winter vegetables* Green leaf vegetables*				91,800 139,680 118,000	17,073 18,606 20,717	74,727 121,074 97,284
Bulb crop *				97,200	37,958	59,243

Remarks

: \* Summer vegetables (Tomatoes), Winter vegetable (Cauliflowers),

: Green leaf vegetables (Broad leaf mustard), Bulb crop (Onions)

By applying the net return per ha under the "without" and "with" project conditions, the total returns are calculated for the Project Area under both conditions and the incremental net benefits of the 13 selected schemes are considered to be irrigation benefits.

The irrigation benefits will be generated and increased from year to year, depending on the progress of the rehabilitation of the Project. Five years after the rehabilitation of the irrigation facilities, it is expected that the irrigation benefits will attain the expected level and will be continuously sustained afterwards.

At the full development stage, the financial and economic irrigation benefits under the "without" and "with" project conditions are estimated as shown in Table 6-11 and 6-12 respectively, and summarized below:

Unit:  $10^3$  NRs

	Net F	armland	Financi	al Irrigatio	n Benefit	Economica	l Irrigatio	n Benefit
No.of Scheme	/ Name	Area (ha)	Without Project	With Project	Irrigation Benefit	Without Project	With Project	Irrigation Benefit
Kathmano	lu District							
AK-()4	Biswambhara	92	4,141	13,112	8,971	3,694	14677	10982
AK-05	Boshan	122	5,427	15,548	10,122	5,054	17442	12389
AK-07	Dakshinkali	67	2,612	9,549	6,937	2,663	10688	8025
AK-14	Indrayani	101	5,019	14,395	9,375	4,506	16112	11606
AK-25	Shali Nadi	157	8,859	24,227	15,367	8,960	27059	18158
Bhaktapur	District							
AB-02	Bidol	32	1,510	4,078	2,568	1,316	4575	3259
AB-10	Katunje	40	1,890	4,823	2,933	1,698	5394	3697
AB-12	Kutuďhal	43	2,084	4,522	2,438	1839	5041	3202
AB-14	Mahadev Khola	112	5,047	12,388	7,341	4366	13883	9517
Lalitpur E	District							
AL-10	Kotkhu	246	10,845	31,351	20,506	9823	35171	25348
AL-13	Lubhu	130	5,470	16,228	10,759	4934	18215	13281
AL-19	Thika Bhairaw-		21,501	63,340	41,839	18972	71056	52084
AL-20	Thika Bhairaw-	II 88	3,940	12,542	8,602	3338	14039	10701

## 1.6 Farmers' Economy

In order to assess the irrigation rehabilitation project from the farmers' economic viewpoint, an analysis of the farm budget of typical farmers was carried out under both "with" and "without" Project conditions.

The net farm income will increase after the implementation of the Project. The increasing rate of the net farm income ranges from 400% in the Intensive area of the AL-19 Thika Bhairaw-I and AL-20 Thika Bhairaw-II schemes to 86% in the Remote area of the AB-12 Kutudhal scheme, as shown in Table 6-13.

The farm budgets of typical farm size households in the selected 13 model schemes are described in Table 6-14 and summarized in Table 6-15. The estimate indicates that the farm income of typical size farms under the "with-Project" condition is expected to be much higher than that under the "without-Project" condition. The average annual net reserve or the capacity to pay is NRs. 16,000 to NRs.74,000 in the Intensive area and NRs. 8,000 to NRs.27,000 in the Remote area, as shown in the following table:

Unit: NRs.1,000

					Oline			
		Farm Size	Family	Without	With Proje	ect		
Schem	es	(ha)	Size	Project	38 18* 26 9* 25 9			
Kathmand	u District							
AK-04	Biswambhara	0.41	5.9	13	74	- 46		
AK-05	Boshan	0.28	5.6	3	44	21		
AK-07	Dakshinkali	0.28	5.9	6	47	24		
AK-14	Indrayani	0.37	5.7	16	69.	39		
AK-25	Shali Nadi	0.27	б.4	12	47	25		
Bhaktapur	District							
AB-02	Bidol	0.19	6.0	. 1	26	- 10		
AB-10	Katunje	0.24	5.9	9	34	18*		
AB-12	Kutudhal	0.30	5.6	6	. 38	18*		
AB-14	Mahadev Khola	0.26	5.9	1	26	9*		
Lalitpur D	istrict							
AL-10	Kotkhu	0.19	5.3	1	25	9		
AL-13	Lubhu	0.23	6.2	4	29	18		
AL-19	Thika Bhairaw-I	0.25	5.8	1	35	15		
AL-20	Thika Bhairaw-II	0.13	5.9	1	16	5		

Note \*: For a conservative estimation, the farmer's budget in the remote area is estimated to be the same as that of the downstream area where no irrigation water will be available in the dry season due to a water shortage.

Judging from the results of the analysis, each scheme is financially justified from the beneficiaries' viewpoint.

#### 2. RECOMMENDATIONS

#### 2.1 General

The Project will contribute to an increase in the unit yields of crops and crop production through the rehabilitation of the irrigation schemes. In order to ensure that there are irrigation / agricultural benefits and to maintain the high project sustainability of the proposed irrigation projects over their useful life, the following agricultural supporting activities are required to be strengthened:

- Organization of Vegetable Growers Groups
- Establishment of Vegetable Collection Centres

## 2.2 Organization of the Vegetable Growers Groups

Individual farmers in the Project Area have little experience with producing vegetables for commercial purposes. For intensive agricultural farming, it is of vital importance for them to learn and understand the cultivation technology and to cooperate with farm operations and marketing in groups, such as planting, irrigation, harvesting, storage, packaging, transportation, selling and purchase of seeds and equipment.

Under the present extension services provided by DADO, the farmers who are interested in vegetable farming in the service area of the centre are organized and trained on farming techniques. At present such growers' groups have not yet been organized in each scheme area.

After the completion of the Project, all the farmers will be able to introduce vegetable cultivation. Accordingly, all the farmers in the terminal unit of WUA in each scheme should be organized into VGG, under the supervision of DADO and DIO, in order to manage vegetable farming and marketing in close cooperation, such as transfer / exchange of technical knowhow, procurement of farm inputs and equipment, and production marketing together with the provision of proper O & M irrigation facilities.

As mentioned in the above chapter, the terminal unit of WUA will be organized for the purpose of operating and maintaining the irrigation scheme on the basis of the tertiary irrigation block, which covers 5 ha. This unit organization of WUA will also function as a VGG.

## 2.3 Establishment of Vegetable Collection Centres

In order to strengthen the activities of VGG, marketing facilities such as vegetable collection centres should be established in each terminal unit irrigation block area. These centres are places where farmers in the unit area gather their products together for shipping.

After harvesting, the farmers clean, select, and package their products for marketing. Then they transport their products to places located near access roads to markets, in the early morning. The mode of transportation generally used by farmers to transport vegetables to the markets is minibuses. Normally, a minibus is hired by a group of farmers, but sometimes individual farmers get their own transportation.

The main problems related to vegetable marketing in the production area, are that it takes time to transport the products and to sell them in the markets. Due to the perishable nature of vegetables, farmers lose many of their products. The price of vegetables mostly fluctuates according to the harvesting period and is decided by face to face trading between sellers and buyers.

The shipping of all the farmers' products together, by the members of VGG, will prove to be advantageous to the member farmers. They can hire minibuses regularly and the

vegetables, which are gathered from the members' farms and taken to the vegetable collection centre, are transported to the market place by the representative members. In addition, through discussions held, they can coordinate the cropping schedule according to the market demand. Through price negotiation, they will be able to fetch a better price for the products because they are supplied regularly and timely.

The vegetable collection centre will play an important role in VGGs' activities, not only as the place where farmers gather their products but also the place where the farmers discuss VGGs' activities, such as the farming schedule including the irrigation period, extension of new cultivation techniques, and present constraints and the countermeasures in their area. In order to successfully implement the Project and achieve the targets in the Project Area, it is necessary to establish vegetable collection centres, although this depends on the availability of land. The condition of the recommended vegetable collection centres is as follows:

#### Location and area:

Minibus are often parked along the premises, therefore it is necessary for the centre area to have parking space, or when space is inadequate, along the main or approach roads.

Since water is needed for cleaning the vegetables, it will be more suitable for the centre to be located near a water source such as a river or an irrigation canal.

Taking into account the volume of products which will be gathered in the collection centre during the peak period, the area of the collection centre is recommended to be  $30 \text{ m}^2$ .

#### Facilities:

The recommended facilities are buildings with cement floors with two-sided roofs, and storage rooms for storing equipment such as packaging materials.

#### Operation & Maintenance

O&M of the collection centre is carried by the VGG. A management system should be desided by VGG members.

# Tables

<sup>.</sup> 

## Table 6-1 Monthly Labour Balance under With Project Condition in Each Scheme (1/5)

. Mariant		1	Earin Poro	dation		1,232	Lien	normes	ally Activ	e Popu	Jahan R.	ald:	4.3	(0,0%)	Agr	nçu Itii	e Lanes	Rate		11,897	1		son Lu		92 tan
CK-04 Blswamhlnera>			refn		M		Apr	.,	May		Lan	i.	Jul		Λu		5.	۴.	D <sub>i</sub>	1	Ne	».	<b>***</b>	RCs	Tetal
	Facty		Innly		Early	Lave	Isuly	re	Early	ale	Carly	late	Unity	Late	Early	Late	Enty		larly			Late	Early 5.3	L.4e 5.3	126.1
A.L.Sour Poice Available (1700) man-days)	5.3	5.1	5.3	5.3	5.1	5.1	5.3	5.3	5.3	5.3	5.3	5.3	5.1	5.3	5.3	5.3	5.1	5.3	5.3	5.3	5.3	5.3	3.3	.00.0	1200
0.125 our Requiterness for Farming Activities		4,	Proposed	rate of	Basict	relibini	Patein				lutensiv	e-1 i	50/2		Remote	· I (	50%	125	,						
Int1 Renut1																				21	201	LB			216
(50%) (50%) 46ba	0.0	1611	0.9	0.0	0.0	0.0	0.0	0.0	0.0	160	1.2 10.6	1.2	lo La	. 29 1.3	1.9 0.8	0.3	0.4	0.4	0.4	1.0	0.9	0.8	0,0	0.0	9,9
(morehly requirement: 1,000 man-days)  2) Polato (25%) (25%) 23ha		11		11	42	41	5									0.0	0,0	0.0	11,11	0.0	0,0	0.3	.11 0.7	36	226 5.2
(mealify requirement: 1,400 man-days)		0.1	0.3	0.3	1.0	0.9	0, <u>F</u>	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0			!!!!			31	46	24	18	226
3) Early Potato -1 (25%) (0%) 12ha (monthly requirement : 1,000 man-days)	0.2	-44 -0.5	41 0.5	0.1	0.0	0,0	0,0	0,0	0.0	0,0	0,0	0.0	0,0	0,0	0,0	0,0	0.0	0.0	0.0	0,0	0.4	0.5	0.3	0.2	2.6
o Gado Potato -2 (O'to) (O'to) Oha	18 0.0	17	44 0,0	41	5	0.0	0,0	0.0	0.0	().()	0.0	0.0	0.0	0,0	0,0	u.O	0,0	0,0	0.0	0.0	0,0	.31 0.0	46 0.0	24 0,0	226 0,0
(monthly requirement: 1,000 (nan-days)  51 Lise Polato (25%) (0%) 12ha		11.0	31	46	24	18	17	-4-1	41	5				44	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	226 2.6
of the participant of E000 man-days)		0.0	0.4	0.5	0.3	0,2	0.2	0.5	0,5	0.1	0.0	160	0,0	0.0			19,12	*****				9	12	12	147
7) Leguanes (0%) (25%) 12ha (monthly requirement: 1,000 man-days)	0.1	0.1	6 0.1	0.1	0.3	0.3	25 0.3	0.0	0.0	0.0	0.0	0,0	0.0	0,0	0,0	U.0	0,0	0.0	0,0	0.0	0,0	0.1	0.1	0.1	1.7
5 Countant Veg -1 (50%) (0%) 23ha	28 0 o	20	47	.55 1.3	40 0.9	.19 0.9	35 0.8	17 0,4	0,0	0.0	0,0	0.0	0,0	0,0	0.0	0,0	0.0	0.0	0.0	0,0	0.0	0.0	0.3	24 0.6	325 7.5
(monthly requirement: 1,000 man-days)  9. Green Leaf Yeg2 (0%) (0%) 0ba	45	33	.38	63	59 0.0	1),u 29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1)	0.0	0.0	0.0	0.0	0.0	0,0	17 0.0	41 0,0	325 0.0
(munthly requirement: 1,000 man-days)	0.0		0.0	0,0		////		366	34		41	43	36	33	26	22	9								327
menthly requirement: 1,000 man-days)	11,0	0.0	0,0	0,0	0.0	0,0	0,6	1.4	1.6	1.8	1.9	2.0	1.7	1.5	1.2	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0,0	(),0	15.0
[11Winter Veg ] (50%) (0%) 23ha		17							0.0	0.0	0.0	0.0	0,0	11,0	0.3	17	.13 U.S	39	.33 1).8	24 0.6	39 0.9	48	43 1.0	39 0.9	.190 9.0
(mouddy requirement : 1,000 man-days)	H.4)	0.4	0.0	0.0	0,0	0.0	0.0	0,0							19	18	48	3#	29	26	45	(4)	55	28	390
(Pb) (25%) 12ha (monthly requirement: 1,000 (pan-days)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.4	0.3	0,3	0.5	0.7	0.6	0.3	4.5 610
11/Spices (0%) (25%) 12ha		16		68	8-1	80	24	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	(1,0)	0.0	25 0.3	54	92 [.i	72 0,8	0.6	0.2	7.0
(monthly requirement: 1,000 man-days)	0.2		0.2	0,8	1.0		0.3	2.1	2.0	1.9	2.4	3.2	3.5	1.9	2,6	2.4	2.1	1.7	1.7	2.4	3.8	4.5	3.6	3.1	65,0
Total Labour Use (Total area: 210ha		2.1	2.4	3.0	3.5		1.0	3.0	3.2	3.4	2,8	2.1	1.8	2.4	2.7	2.0	3.1	3.6	3.5	2.8	1.5	0.8	1.6	2.1	61.0
C.Balance [ A - B ]	2.8 47	3.2	2.9 46	2.3	1.0		43	4.3	39	36	16	60	66	5-1	49	46	-11	32	3.1	46	72	8.5	69	59	52
[ D/A = % ]																									

or or the days		1	Barm Per	sulation		2,440 (	Ecc	mothic.	ally Acti	ve Popt	alation R	are	(	22.1%	Agi	ricultur	e Labou	r Rate	(4	6.5%	)		arm land		122 lia)
<ak-05 boshan=""></ak-05>	—	u)	Pel		314		Δp		M		Iq		Ιu	1.	Au	g.	Se	p.	Oct		No		De		Total
	Early	Late	Early	ale	Early	Laic	Early	alc	Early	Late	Early	Late	Early	Lite	Early	عانها	Parly		Euly		Early		Early		
A Labour Force Available (1900) man-days)	10.0	10,0	10.0	10:0	[0,0	[0,0]	10.0	10.0	10.0	10.0		10,0	10.0	0.0	• • • • • • • • • • • • • • • • • • • •	10.0		[0.0]	10.0	10.0	10.0	10.0	10.0	10.0	238.9
8. Labour Requirement for Farming Activities		4	Proposed	rate of	f Basic C	ropping	Pattern	:			Intensiv	o-I (	30%	)	Remote	· I (	70%	,	•						
IntI RentI																				21	20	18	,		216
1) Paddy (50%) (50%) 61ha (monthlyrequirement: 1,000 man-days)	0,0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.7	26 1.6	39 24	1.8	18 1.1	0.4	0.1	0.5	0.5	1.3	1.2	1.1	0.i 31	0.0	13.3
2) Potato (25%) (25%) 31ha (monthly requirement: 1,000 man-days)	24 0.7	11 0.3	11 0,3	11 0.3	42 1.3	41 1.3	0.2	0,0	0,0	0.0	0,0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14 0.4	0.9		6.9
3) Early Possto -1 (25%) (0%) 9ha (monthly requirement : 1,000 man-days)	17 0.2	44 0.4	41 0,4	5.00	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0,0	0.0	0.0	0.3	46 0,4	24 0.2	18 0.2	226 2.1
4) Early Potato -2 (0%) (0%) Oha (monthly requirement: 1,000 man-days)	18	17	44 0.0	41 0.0	5 0.0	0,0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0.0	0.0	0,0	0.0	0.0	0.0	3) 0,0	46 0.0	0.0	226 0,0
6) Lac Polato (25%) (0%) 9ha (monthly requirement: 1,000 man-days)	0.0		31 0.3	46	24 0.2	18 0.2	17 0.2	44 0.4	41 0.4	5 0,0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	216 2.1
7) Legumes (0%) (25%) 21ha	8 0.2	8 0.2	6	6.1	28 0,6	29 0.6	25 0.5	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	4 0,1	0.2	12 0,3	12 0.3	147 3.1
(monthly requirement: 1,000 man-days) 8) Green Leaf Veg1 (50%) (0%) 181a		19 0.5	47	55 L0	40	31)	35 0.6	17 0.3	0.0	0.0	0,0	0.0	0,0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	11 0.2	24 0,4	325 5.9
(monthly requirement: 1,000 man-days)  9) Green Leaf Veg2 (0%) (0%) (ha		3.3	38 0.0	63	59	213	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0.0	0.0	0,0	17 0.0	41 0.0	32.5 0.0
(monthly requirement: 1,000 (nan-days)  BuSummer Veg. (50%) (50%) 6Tha			0.0		0.0		13	30 1.8	34 2.1	40 2.4	41 2.5	43 2.6	.16 2.1	33 2.0	26 1.6	1.3	0.5	0.0	0.0	0,0	0.0	0,0	0,0	0.0	32.7 10.9
(monthly requirement : 1,000 man-days)  1()Winter Veg 1 (50%) (0%) 18ha		17	0,0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	14 0.3	27 0.5	3.1 0.6	39 0.7	33 0.6	24 0.4	39 0.7	48 0.9	43 0.8	39 0.7	390 7.1
(monthly requirement : 1,000 man-days) 12)Winter Veg 2 (0%) (25%) 21ha			0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	[9]	.38 0.8	48 1.0	38 (),8	29 0.6	26 0.6	45 1.0	61 L4	55 1.2	28 0.6	390 8.3
(monthly requirement: 1,000 man-days) 13/Spices (0%) (25%) 21ha		16	1-3	ъB	84 1.8	BO)	24 0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25 0.5	54 1.2	92 2.0	72 1.5	.50 [.1	15 0,3	610 13.0
(menthly requirement : 1,000 man-days)	0.3		0.3	1.5 3.4	-1.6		2.8		2.4	2.5	3.2		4.6	3.8	3.3	3.1	2.7	2.0	2.2	3.4	5.2	5.9	4.7	1.6	81.7
Total Lahour Use (Total area: 271ha			7.7	6.6	5.3		7.2	7.4	7.5	7.5	0.7	5.7	5.4	6.2	6.6	6.9	7,2	7.9	7.7	6.5	4.7	4.0	5.2	6.4	157.1
C. Balanco [ A - B ] [ B/A = % ]	7.4 25		23	34	46		28	26	25	25	32	42	46	38	3-1	31	27	20	23	34	53	59	47	36	.34

AK-07 Dhakshinkali>		<	Farm Pop	utation		1.412	1300	AMALIEC.			ulation R			72.7%		ricultu			()		N/	19	De	ε.	Total
	1	<b>19</b> 1	l fel	).	Ma	r.	Δŗ	ıt.	Ma	y	Ju		Jul		Au	<del>-</del>		p					Party		
	Early	Late	Early	Late	Early	Late	Parly	Late	Early	Late	Farly		Euly		Party		Early			Late		1.ate 7.9	7.9	7.9	189.4
Labour Force Available (P000 man-days)	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.0	7.9	7.9	1.9	1.9	7.9	107.4
Labour Requirement for Farming Activaties		<	Proposed	rate of	Basic C	ropping	Patem	:			Intensis	e-1 (	50° è	1	Remate	-1 1	50%	) ;	•						
Int1 Reint3																					30	18			216
1) Paddy (50%) (50%) 346 (monthly requirement: 1,000 man-days)	a. 0.0	0.0	0,0	0.0	0.0	0,0	0,0	0.0	0,0	0,0	0,4	26	.1.1	19 1.0	18 0.6	0.2	0.3	0.3	0.1	21 0.7	0.7	0.6	0.0	0.0	7.2 126
2) Posato (25%) (25%) 17h (thoughly requirement: 1,000) man-days)	a 24 0.4	11 0.2	11 0.2	11 0,2	42 0.7	41 0.7	0.1	0.0	0,ft	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.2	<u>0.5</u>	0.6	3,8
3) Early Potato -1 (25%) (0%) 8h (monthly requirement: 1,000 man-days)	a 17	44 0.4	41 0.3	5 0,0	0.0	0,0	0.0	0,0	0,0	0.0	0.0	0,0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	46 0,4	24 0.2	0.2	1.9
41 Early Potato -2 (0%) (0%) 08 (monthly requirement: 1,000 man-days)	ia 18 0.0	17	44 0,0	41 0,0	0.0	0.0	0.0	0.0	0,0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	41,0	0.0	0,0	, 0,0	00	. 10,0	0.0	0,0	226 0.0
6) Late Parato (25%) (0%) 80 (monthly requirement: 1,000 man-days)	ja 41,41	υū	31 0.3	46	24 0.2	LR 0.1	17 0.1	41 0,4	41 63	5 0,0	0,0	0.0	0,0	0.0	0,0	0.0	0,0	DO	13,11	0.0	0.0	0.0	0.0	0.0	2.26 1.5
7) Legumes (0%) (25%) 81 (0000ffly) requirement (1,000 man-days)	ia 9 11 1		6 0. l	tı U.1	28 0.2	0,2	25 0.2	0,0	0.0	(1,1)	0,0	0,0	0,0	0,0	0,0	11,0	0.0	0,0	ŒII	040	6,0 0,0	0.1	12 0.1	9.1	147
8) Green Leaf Voy. st. (50%) (0%) 17h (mouthly requirement: 1,000 man-days)	ia 28 10,5		47	55 0.9	40 0,7	39 11.7	35 U.6	17 0,3	0.0	0.0	0.0	0,0	0.0	fi,H	0.0	1100	0,0	0.0	0.0	0.0	0,0	0.0	0.2	11.4	325 54 325
W. Green Leaf Veg3 (0%) (0%) 01 (monthly requirement: 1,000 man-days)	ta 45		48 0,0	63	50 0.0	29 0.0	0,0	0,0	19,01	0.0	0.0	0,0	0,0	(),(1	0.0	ĹEU	0,0	0.0	0,0	0,0	0,0	0.0	0.0	00 41	0.0 3.20
10)Summer Veg. (50%) 34 (monildy requirement: 1,000 man-days)	la O C	0,0	0,0	aq	0.0	0.0	) 1 () 4	%) 1 ()	14 1 1	-40 1, 3	41 1.4	43 1.4	3n 1.2	1.1	26 0.9	0.7	9 1	(14)	0.0	0.0	0.0	0,0	0,0	0.0	3.0 11.0 398
1DWinter Veg 1 (503-) (0%) 171 (00000ldy requirement : 13000 man-days)	(a - 1) (1)		0.0	0,0	0.0	6.0	0,0	0,0	вU	0,0	40.01	0.0	11.0	0.0	14 0.1	0.5	31 06	0.7	0.6	24 0.4	30 0.7	48. 0.B	41 01.7 55	10.7 0.7 28	6. 39
12) Winter Veg. + 2 (0%) (25%) 81 (0%) (by requirement: 1,000 man-days)	ia () t	11.0	0.0	41,11	0,0	0.0	0.0	0,0	00	110	0.0	0,0	0,0	вu	19 0.2	18	0.4	0,3	29 0.2	36 0.2	45 0.4	64 0.5	.33 0,5 50	0.2 15	611
DiSpices (0%) (25%) 8f (monthly requirement : 1,000 main-days)	LL 10		1.4 0.1	4) ti	81 0,7	80 0.7	24 9.2	41-41-	0.0	0.0	11,11	0.0	0.0	0.0	0.0	11,11	0.0		25 0.2	54 0.5	92 0,8 11,0	7.1 0.6 3.1	(),d 2.6	0.1	5.
Total Labour Ose - (Total area 159)	ha I	15	1.7	2.2	2.5	2.4	1.7	1.7	15	1.4	1.8	2.4	23	21	1.0	1.7	1.6		1	6.T	5.1	4.7	5.3	5.6	142
Balance [ A - B ]	6.1	6.4	6.2	5.7	5.4	5.5	6.2	6.2	6.1	6.5	tı I	5.6	5.4	5.8	6.0	6.2	6.3	6.7	fs to	2.2	35		33	29	2:
[ 106A ≈ % ]	21	199	2.2	27	12	¥П	21	.21	19	18	2.2	.19	ų,	31.	24	2.2	24)	16	16						(contin

Table 6-1 Monthly Labour Balance under With Project Condition in Each Scheme (2/5)

<ak-14 indrayani=""></ak-14>			< 1	Sam Po			1.611					ulation R			1.1%			e Labor			61.9%			Farm Ian		[10] fal
		J.on.		Fe	h	Ma	r	A	η	Ma	y	hi	11.	Jul.		Au		S		100	1.	N	IV.	D.	N.,	Total
	14	arly I	,are	tiarly	Late	Earty	भव	Early		Early		Early		limiy		lady		Larty		Buty		liarly		Uarly		
A.Labour Burce Available (1000 man-days)		8.6	8.6	8.6	8.6	8.6	8.6	8,6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	1,6	8.6	8.6	A.6	8.6	8.6	8.6	8.6	8.6	8.6	207.0
B. Labour Requirement for Farming Activities			< I	Proposed	I rate of	Basic C	թրազգու	Pattern	:			Intensiv	0-1	50% I		Remote	· I (	50%	1	>						
Jul.4 Remt1																										
<ol> <li>Paddy (50%) (50%) 5 Has (monthly requirement: 1,000 man-days)</li> </ol>		0.0	0.0	0.0	0.0	0.0	0,0	0.0	0,0	0.0	0,0	1.1 0.6	26 1.3	39 2.0	29 1.5	0.9 	0.4	0.5	8 0.4	8 0.4	21 1.1	20 1.0	0.9 P.O	0.1	0.0	216 (0.9
<ol> <li>Potato (25%) (25%) 25ha (monthly requirement: 1,000 man-days)</li> </ol>		24 0.6	11 0.3	11 0.3	11 0.3	42 1.1	41 1.0	5 0.1	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	14 0.4	31 0.8	36 0.9	226 5.7
<ol> <li>Early Potato -1 (25%) (0%) 13ha (monthly requirement: 1,000 man-days)</li> </ol>		17 0.2	44 0.6	41 0.5	5 0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0.0	0,0	0.0	0.0	0.0	31 0.4	45 0.6	24 0.3	18 0.2	226 2.9
4) Early Potato - 2 (0%) (6%) Oha (monthly requirement: 1,000 man-days)		18 0.0	17 0.0	41 0.0	41 0.0	5 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	31 0.0	46 0.0	24 0.0	126 0.0
6) Late Potato (25%) (6%) 13ha (monthly requirement: 1,000 man-days)		0.0	0.0	31 0.4	46 0.6	24 0.3	18 0.2	17 0.2	44 0.6	41 0.5	5 0,1	0,0	0,0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0,0	236 2.9
7) Legumes (0%) (25%) 13ha (monthly requirement: 1,000 man-days)		8 1.0	8 0.1	6 0.1	6 0.1	28 0.4	19 0.4	15 0,3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	6.L	9 0.1	12 0.2	12 0.2	147 1.9
<ol> <li>Green Leaf Veg1 (50%) (0%) 25ha (monthly requirement: 1,000 man-days)</li> </ol>		28 0.7	29 0.7	47 1.2	55 1.4	40 1.0	39 1.0	35 0.9	17 0.4	0,0	0,0	0,0	0.0	0.0	0.0	0,0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	11 0.3	24 0.6	325 8.1
<ol> <li>Green Leaf Veg2 (0%) (0%) Oha (monthly requirement: 1,000 man-days)</li> </ol>		45 0.0	33 0.0	38 0,0	63 0.0	59 0.0	29 0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0,0	0,0	0,0	0.0	0.0	0.0	17 0.0	41 0.0	325 0.0
10) Summer Veg. (50%) (50%) 5 Ha (monthly requirement: 1,000 man-days)		0.0	0.0	0.0	0,0	0.0	0.0	13 0.7	30 1.5	34 1.7	40 2.0	41 2.1	43 2.2	.36 1.8	33 1.7	26 1.3	22 1.1	0.5	0.0	0.0	0.0	0,0	0.0	0.0	0.0	327 16.5
11) Winter Veg 1 (50%) (8%) 25ha (monthly requirement: 1,000 man-days)		34 0,9	17 0.4	0.0	. 0.0	0.0	0.0	0,0	0.0	0,0	0,0	0.0	0.0	0.0	0.0	14 0.4	27 0.7	33 0.8	39 1.0	33 0.8	24 0.6	39 1.0	******	43 [.]	39 1.0	390 9.8
12) Winter Veg 2 (0%) (25%) 13ha (monthly requirement: 1,000 man-days)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.2	38 0.5	48 0.6	38 0.5	29 0.4	36 0.3	45 0.6	64 0.8	55 0.7	28 0.4	390 4.9
(3) Spices (0%) (25%) 13ha (monthly requirement: 1,000 man-days)		16 0.2	16 0.2	14 0.2	68 0.9	84 1.1	80 1.0	24 0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25 0.3	54 0.7	92 1.2	72 0.9	50 0.6	15 0.2	7.7
Total Labour Use (Total area: 240ha	1	2.7	2.3	2.6	3.2	3.8	3.6	2.5	2.5	2.2	2.1	2.7	3.5	3.8	3.1	2.8	2.6	2.3	1.9	1,9	2.7	4.2		4.0	3.4	
C. Balance [ A · B ]  [ B/A = 56 ]		5.9 31	6.3 27	6.0 30	5.4 38	4.8 44	5.0 42	6.1 29	6.1 29	6.4 26	6.5 24	5.9 31	5.1 40	4.8 44	5.5 36	5.8 33	5.0 30	6.3 27	6.B 22	6.7 22	5,9 31	4.5 48	3.7 57	4.6 46	5.2 40	

<ak-25 nadi="" shall=""></ak-25>		< 1	iarm Po	pulation	t	3,780 ]	. Ec	onomica	illy Acti	ro Pop	utation R	ate	( 6	7.5%	Ag	ricultu	re Labou	r Raid		50.4%	)		Farm lan	d area	157 Juj
	Ja	n.	J²e	b.	Ma		Αį	r.	Ma	y	Ju	n	Jul.		Au		Se	p.	- 0		No		De		Lorn
	Early	l.ate	Early	Ale	Early	Late	Tarly	Late	Early	Laic	Luly	Late	Early		Early		liarly		Karly		Larly		Early		
A. Labour Force Available (1'000 man-days)	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6		15.6	15.6	15.6	15.6	15.6	15.6	5.6	375.5
B. Labour Requirement for Farming Activities		<	Proposed	i rate of	Basic Cr	opping	Pattern	:			Intensi	re-1 (	70%)		Remote	-1 (	30%	) :	>						
Intl Remtl																									
l) Paddy (50%) (50%) 79ha (monthly requirement: 1,000 man-days)	0.0	0,0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12 0.9	26 2.0	39 3.1	29 2.3	18 1.4	7 0.5	0.7	0.6	8 0.6	21 1.6	20 1.6	18	0.1	0.0	216 17.0
2) Potato (25%) (25%) 39ha (monthly requirement: 1,000 man-days)	24 0.9	11 0.4	11 0.4	11 0.4	42 1.6	41 1.6	5 0.2	0.0	0.0	0.0	0.0	0,0	0.0	Đ.O	0.0	0,0	0,0	0.0	0.0	0.0	0.0	14 0.5	31 1.2	36 1.4	226 8.9
3) Early Potato -1 (25%) (0%) 27ha (monthly requirement: 1,000 man-days)	17 0.5	44 1.2	41 1.1	5 0.1	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0,0	0.0	31 0.9	46 1.3	24 0.7	18 0.5	226 6.2
4) Early Porato -2 (0%) (0%) Oha (monthly requirement: 1,000 man-days)	18 0.0	17 0.0	44 0.0	41 0.0	,5 0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0,0	0.0	0.0	0.0	0,0	0.0	0.0	31 0.0	46 0.0	24 0.0	226 0.0
6) Late Potato (25%) (0%) 27ha (monthly requirement: 1,000 man-days)	0.0	0.0	31 0.9	45 1.3	24 0.7	18 0.5	17 0.5	44 1.2	41 1.1	5 0,1	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	226 6.2
7) Legumes (0%) (25%) 12ha (monthly requirement: 1,000 man-days)	8 Q.1	8 0.1	6 0.1	6 0.1	28 0.3	29 0.3	25 0.3	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	12 0.1	12 0.1	147 1.7
8) Green Leaf Veg1 (50%) (0%) 55ha (monthly requirement: 1,000 man-days)	28 1.5	29 1.6	47 2.6	55 3.0	40 2.2	39 2.1	35 1.9	17 0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	11 0.6	1.3	325 17.9
9) Green Leaf Veg2 (0%) (0%) Oha (monthly requirement: 1,000 man-days)	45 0.0	33 0.0	38 0.0	63 0.0	59 0.0	29 0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	17 0.6	41 0.0	325 0.0
10) Summer Veg. (50%) (50%) 79ha (monthly requirement; 1,000 man-days)	0.0	0,0	0.0	0,0	0.0	0.0	13 1.0	30 2,4	34 2.7	40 3.1	41 3.2	43 3.4	35 2.8	33 2.6	26 2.0	22 1.7	9 0,7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	317 25.7
11) Winter Veg. • 1 (50%) (0%) 55ha (monthly requirement: 1,000 man-days)	34 1.9	17 0,9	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	14 0.8	27 1.5	33 1.8	39 3.1	33 1.8	24 1.3	39 2.1	48 2.6	43 2,4	39 2.1	390 21.4
12) Winter Veg 2 (0%) (25%) 12ha (monthly requirement: 1,000 man-days)	0.0	0.0	0.0	0,0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	19 0.2	38 0.4	4B 0.6	38 0.4	29 0.1	26 0.3	45 0.5	64 0.8	55 0.6	28 0.3	390 4.6
13) Spices (0%) (25%) 12ha (monthly requirement: 1,000 snan-days)	16 0.2	16 0.2	14 0.2	68 0.8	84 1.0	80 0.9	24 0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	25 0.3	54 0.6	92 1.1	72 0.8	50 0.6	1.5 0.3	610 7.2
Total Labour Uso (Total area : 396ha	> 5.1	45	5.2	5.7	5.8	5.5	4.2	4.5	3.8	3.3	4.2	- 5.4	5.9	4,9	4.4	4.2	3.8	3.2	3.1	3.9	6.2	7.6	6.3	6.0	
C. Balance [A - B]	10.5	11.2	10.4	9.9	9.8	\$0.1	11.5	11.1	11.9	12.4	11.5	10.2	9.8	10.8	11.2	11.4	11,9	12.4	12.6	11.7	9.4	8.1	9.3	9.6	258.8
[B/A = %]	33	28	33	37	37	35	27	29	24	21	27	35	38	31	28	27	24	21	20	25	40	48	40	38	31

AB-02 Bidol>		Jac		Pe	rulation b	Mar	1,011	Λı		Ma		ulation R Ju		lol		Ac	12.	Sc	P.	()	ct.	N.	ρ¥.	De	×.	Total
		Carly				Early		Early		Larly	<u> </u>	Early		-	1,ale	Early		Farly	<del></del>			Harly	Late .	Early	Late	: _
Labour Porce Available (1'000 man-days)	******	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4,9	4.9	4.9	4,9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	1.9	4.9	4.9	1163
Labour Requirement for Farming Activities			< 1	Рторовен	l rate of	Basic Cr	opping	Patem	: .			latensi	ro - L (	30%	9.00	Remote	<b>(-1</b> )	( 70%		> '.					٠.	
int I Remt I				•																						
1) Paddy (50%) (50%) (50%) (monthly requirement: 1,000 man-days)	licha	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	12 0,2	26 0,4	39 0.6	29 0.5	18 0.3	7 0.1	9 0.1	8 0,1	<b>X</b> 1.0	21 0.1	20 0.3	18 0.3	0.0	0.0	216 3.5
2) Potato (25%) (25%) (monthly requirement: 1,000 man-days)	8ha	24 0.1	11 0,1	11 1,6	L1 0,1	42 0.3	41 0.3	5 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,0	. 0.0	0.0	0.0	0.0	14 0.1	31 0.2	16 0.1	226 1.8
3) Early Polato -t (25%) (6%) (morably requirement: 1,000 man-days)	2ha	17	44 9.1	41 0.1	5 0,0	0,n	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	31 0.1	45 0.1	24 0.1	0.0	226 0.5
4) Early Potato 2 (0%) (6%) (monthly requirement: 1,000 man-days)	Óha	18 U.O	17 0.0	44 0.0	41 0.0	.5 0.0	0.0	. 0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	9,0	0,0	0.0	0.0	0.0	0.0	45 0.0	0.0	276 0.0
6) Late Potato (25%) (6%) (nontify requirement: 1,000 man-days)	2ha	0,0	0,0	31 0.1	46 0,1	24 0.1	0.0 0.0	17 0.0	44 0.1	41 0.1	.5 -0.0	0,0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.9	0.0	0.0	0,0	0.0	0.0	236 0.5
7) Legumes (0%) (25%) (monthly requirement: 1,000 man-days)	6ha	- 8 - 0,0	8 0.0	6 0,0	6.0	28 0.2	29 0.2	25 0.1	0,0	0.0	0.0	0.0	0.0	0.0	. 0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0,[	12 0.1	-12 9.1	147 (7.8
8) Green Leaf Veg. 4 (50%) (6%) (monthly requirement: 1,000 man-days)	5ha	28 0.1	29 0.1	47 0.2	55 0.1	40 0.2	.19 0.2	35 0.2	17 8.1	0.0	0.0	0,0	0.0	0.0	0.0	0.0	.0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	24 0.1	115
9) Green Leaf Veg2 (0%) (0%) (monthly requirement: 1,000 man-days)	Oba	45 0.0	33 0,0	38. 0,0	63 0,0	59 0.0	29 0,0	0.0	0,0	0,0	0.0	0.0	0.0	0.0	0.0	6,0	9.0	0.0	. 00	0.0	0.0	0.0	0.0	0.0	0.0	325 0.0 327
10) Summer Veg. (50%) (50%) (monthly requirement: 1,000 monthlys)		0.0	0.0	0,0	0,0	0,0	0.0	13 0,2	0.5	34 0.5	40	41 0.7	43 0.7	36 0.6	33 0.5	26 0.4	0.4	0.1	0.0	0.0	0.0	0.0	0,0	0.0	0.0	5.2 5.2
11) Winter Veg. • I (50%) (0%) (morally requirement: 1,000 man-days)	5lm	34 0.2	17 0,1	0,0	0,6	0.41	0,0	0.0	0.0	0,0	0.0	0,0	0.0	0.0	0.0	14 0.1	27 0.1	33 0.2	39 0.2	33 0.2	24 0.1	39 0.2	48 0,2	43 0.2	0.2	1.9 390
12) Winter Veg 2 (0%) (25%) (monthly requirement; 1,000 man-days)	€h.i	0,0	0.0	U.O	0.0	.0,0	0.0	. 0.0	0,0	0.0	0.0	0,0	0,0	. 11.0	0.0	19 0,1	0.2	48 0.3	0.2	29 0.2	0.1	45 0.1	0.4			2.2
13) Spices (0%) (25%) (morably requirement: 1,800 man-days)	€ha	16 0.1	16 0.1	1.1 0.1	86 1.0	84 0.5	80 6.4	. 24 0.1	0.0	0.0	0.0	. 0,0	0.0	0,0	0,0	0,0	0.0	0,0	0.0	25 0.1	54 0.3	92 0.5	72 0.4	50 0.1	0.1	34
Total Labour Use (Total area:	7 tha 1	0.7	0.5	11.6	0.9	1.2	1.2	0.7	0,7	0.6	0.7	0,8	1.1	1.2	1.0	0,9	0,8	0.7	0.5	0.0		1.4	1.6		3.9	95.0
. Balance ( A - B ]		4.1	4.3	4.3	4.0	3.6	3.7	4.1	4.2	4.2	4.2	4.0	3.7	3.7	3.9	4.0	4.0	4.1	4.3	4.3		3.5	3.3		- 18	18
[ B/A = % ]		14	_11	12	18	25	24	15	14	13	1.3	17	23	.25	20	18	17	15	. 11	. 12	19	38	32	25		(continu

Table 6-1 Monthly Labour Balance under With Project Condition in Each Scheme (3/5)

			Karn Pop	ad atoms	,	967 i	Vent	nomice	dle Acti	ve Ponu	diction Ra	1e	( 6	2.5°F (	Agi	ricultur	e Labou	r Rate	C:	54.1%	;		Arm lan	durea	40 ha
stB-10 Katauje>	Į.		l'eb				Apr		Ma		Jun		Jul.		- Au	8	Se	р.	114	ι.	No	٧.	D	ĸ.	Total
. —	Early		Larly	Late	Barty	Late	Tarly !	ate	Errly	Late	Early I	ale	15arly	ale	Parly	E.alu	Early	alc	Laly	Lare	Early	ate	Larly	Late	
- Constant days	4.0	1.0	4.0	1.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4,0	4.0	4.()	4.0	4.0	4.0	4.0	4.0	4,0	95.5
A Labour Force Available (1000 mmn-days)	41.07		Proposed			ropping	Pattern				Intensive	- 111 (	50%)		Remote	-11 (	50%	:	>						
B. Labour Requirement for Farming Activities			Fiquaci	, and or	114111	10ppus																			
JntIII RentIII											12	26	39	29	18	7	ij	8	8	21	20	18			216
(1 Paddy (50%) (50%) 20ha (monthly requirement : 1,000 man-days)	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.2	0.5	0.8	0.6	0.4	0.1	0.2	0.2	0.2	0.4	0.4	0.4	0.0	0,0	4.3
	24	11	11	11	42	41	5								0.0	0.0	0.0	0.0	0.0	0.0	0.0	14 0.1	31 0.2	36 0.2	226 1.1
21 Potato (25%) (0.56) Ana (monthly requirement : 1,000 man-days)	0.1	0,1	0.1	0,1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0				31	46	24	18	226
2.5%) (9%) 5ha	17	44	41 0.2	5 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.1	1.3
(monthly requirement: 1,000 man-days)	0.1	0.2			5	17.07		11.5														31	46	24	226
4) Early Potato -2 (0%) (25%) 5ha (monthly requirement: 1,000 man-days)	18 0.1	0.1	44 0.2	41 0.2	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	n.0	0.0	0,0	0.0	0.0	0.0	0,0	0.2	0.2	0.1	<u>. 1.1</u>
			31	46	24	18	17	44	41	.5							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	126 0.0
6) Late Potato (0%) (0%) that (monthly requirement : 1,000 man-days)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	<b>u</b> .0	0,17	0.0	9	12	12	147
7. Legumes (0%) (25%) 5ha	8	8	6	6	28	29	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.7
(monthly requirement: 1,000 man-mays)	0.0	0,0	0,0	0.0	0.1	0.1	0.1		0.17			~											11	24	325
8) Green Leaf Veg1 (0%) (0%) 0ha	28 0.0	29 0.0	47 0.0	55 0.0	40 0.0	39 0.0	35 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0,0
(monthly requirement : 1,600 man-days)	45	33	38	63	59	19									.,,							•	17 0.1	41 0.2	325 1.6
<ol> <li>Green Leaf Veg2 (25%) (19%) Sha (monthly requirement : 1,000 man-days)</li> </ol>	0.2		0.2	0.3	0.3	0.1	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	U. j	0.2	327
(50%) (50%) 20ha		,,					13	30	34	40	41 0.8	43 0,9	36 0.7	33 0.7	26 0.5	22 0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5
(monthly requirement : 1,000 man-days)	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.7	0.8		11.3		-0,,	14	27	33	39	33		39	48	43	39	390
11. Winter Ven - 1 (50%) (0%) 10ha	34 0.3	17 0.2	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.4	0.3		0.4	0.5	0.4	0.4	3.9
(monthly requirement : 1,000 man-days)															19	38	48	.38	39		4.5	64	55	28	390
(12) Winter Veg 2 (0%) (25%) 5ha (monthly requirement: 1,600 man-days)	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.3		2.0
(monthly requirement (0%) (25%) 5ha	16	16		68	84	80	24				0.0	0.0	0.0		0.0	0.0	0.0	0.0	25 0,1	54 0.3	9 <u>2</u> 0.5	72 0.4	50 0.3		610 3.1
(monthly requirement : 1,000 man-days)	0.1	0.1	0.1	0.3	0.4		0.1	0.0	0.0	0.0		0.0	0,0	0.0	0.0	1.0	0.0	0.7	0.8		1.7	2.0			25.5
Total Labour Use (Foral area 85ha	j 1.0	0.8	0.8	1.0	1.1	0.9	0.5	0.6	0.7	0.8		1.4	1.5	1.2	2.9		3.0	3.2	3.2		2.3				70.0
C. Balance [ A - B ]	3,0	3.2	3.2	3.0	2.9		3.4	3.4	3.3		2.9	2.6	2.5	2.7	2.9	2.9 26	23	3.5 19	19	-	41	51	45		27
[ 9/A = % ]	25	20	19	24	27	22	13	15	17	20	27	35	38	31		20	*3								

		- 1	'Arm Popi	nTation		803 )	Peo	nomica	dly Activ	e Popu	ilation Ra	ıc	( (	7.0%	Age	icultur	e Labour	Rate		5.6%			ann land		43 ha)
AB-12 Kutudhal>	Ja		Fab		Ma	_	Apt		Ma		Jun		Jul		Aug	3.	Sep	ρ.	Oçi.		No		Dec		Total
	Luly		Early	Ato	Barty	Late	Early	Lalo	Burly	Jale	Karly	ale	Larly	Late	Burly	.ale	Harly		Early		Early		Early		
A.Labour Force Available (1'000) man-days:	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3,0	3.0	3.0	3.0	3.0	3,0	3.0	3.0	3.0	3.0	3.0	71.6
B.Labour Requirement for Farming Activities		e 1	Proposed	rate of	Basic Co	roppid1 <b>g</b>	Pattern	:			Intensive	- III (	30%)		Remoi≠ -	· II (	70%)	. >	•						
IntH RemtH																									
											12	26	39	29	18	. 7	9	8	0.2	21 0.5	20 0.4	18 0.4	0.0	0.0	216 4.6
1) Paddy (50%) (50%) 22ha (monthly requirement : 1,000 mon-days)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.8	0.6	0.4	0.2	0.2	0.2	0.2	V-1	0.4	14	31	36	226
2) Polate (25%) (0%) 3ha (monthly requirement: 1,000 man-days)	24 0.1	0,0	11 0.0	11 0.0	43 0.1	41 0.1	5 0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.1	0,1	0.7
1) Feely Polato -1 (25%) (0%) 3ha	17	44	41	5	Ð.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31 0.1	45 0.1	24 0.1	1.0	236 0.7
(monthly requirement: 1,000 man-days) 4) Early Potato -2 (0%) (25%) 8ha	0.1	0.L 17	0.1 44	0.0 41	5	0.0									0.0	0.0	0.0	0.0	0.0	0,0	0.0	31 0.2	46 0.3	24 0.2	226
(monthly requirement: 1,000 man-days)	0.1	0.1	0.3	0.3	0.0	0,0	0.0	0.0 44	0,0 41	<u>0.0</u>	0.0	0.0	0.0	0,0	0.0	V.U	0,0	0.0							226
6) Lie Potato (0%) (0%) 0ha (monthly requirement : 1,000 man-days)	0.0	0.0	31 U.O	46 0,0	24 0.0	18 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7) Legumes (0%) (25%) 8ha (monthly requirement: 1,000 man-days)	0.1	0.1	6.0	6 0.0	28 0.2	29 0.2	25 0.2	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.1	0.1	0.1	1.1
E) Green Leaf Veg1 (0%) (0%) Oha	28	29	47 0.0	55 0.0	40 0.0	39 0.0	35 0.0	17 0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11 0.0	2.4 0.0	0.0
(monthly requirement: 1,000 man-days)  9) Green Leaf Vets -2 (25%) (0%) 3ha	0.0 45	0.0	38	63	59	29																0.0	17 0.1	4 I 0.1	325 1.0
<ol> <li>Green Leaf Veg2 (25%) (0%) 3ha (monthly requirement: 1,000 man-days)</li> </ol>	0.1	0,1	0.1	0.2	0,2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	V-1	V-1	327
(6) Summer Veg. (50%) (50%) 22ha	0.0	0.0	0.0	0.0	0.0	0.0	13 0.3	30 0.6	34 0.7	40 0.9	41 0.9	43 0.9	36 0.8	33 0.7	26 0.6	12 0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
(monthly requirement: 1,000 man-days)  11(Winter Veg 1 (50%) (0%) 6ha	34	17											0.0	0.0	14 0.1	27 0.2	33 0.2	0.3	33 0.2	24 0.2	39 0.3	48 0.3	43 0.3	39 0.3	390 2.5
(monthly requirement: 1,000 man-days)	0.2	0,1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0		0.0	19	38	48	38	29	26	45	64	55	28	390
12) Winter Veg. • 2 (0%) (25%) 8ha (monthly requirement: 1,000 man-days)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<u>0.i</u>	0.3	0.4	0.3	0.2	0.2	0.3	0.5	50	0.2 15	2.9 610
(3) Spices (0%) (25%) 8ha	16		14	68	84 0.6	80 0.6	24 0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25 0.2	54 0.4	92 0.7	72 0.5	0.4	0.1	4.6
(mentally requirement : 1,000 man-days)	0,1	0.1	0.1	0.5		1.0	0.7	0.6	0.7	0.9	1.1	1.5	1.6	1.3	1.2	1.1	1.0	0.7	0.6	1.2	1.8	2.2	1.8	1.2	27.0
Total Labour Use (Total area: 89ha		0.7	0.8	1.1	1.2		2.3	2.3	2.3	2.1	1.8	1.5	1.4	1,7	.  .8	1.9	2.0	2.3	2.2	1.8	1.1	0.8	1,2	1.8	44.6
C.Balance [ A - B ]	2.1		1.2	1.9	1,8	1.9	2.3	2.3	24	29		50	54	45	40-	36	32	24	27	40	62	74	59	39	38
[ B/A = % ]	27	24	26	38	40	33		- 32														***			

B. 1. 1. 1. 1		ء 1	Parm Pop	utatkan	r.	2.585	Reo	nomica	dly Acti	va Popu	ulation Ra	sie	€	15.4%	A <sub>8</sub>	ricultu	ra Labou			65.9%	<u>)</u>		arm land		112 h
AB-14 Mahadev Khola>		VD.	Feb		Ma		Apt		M		Jar		Ju		Au	8-	Se		Oc		No		De		IDM
	Early		Parly		Lady	Laid	Barly	ale	lively	Late	Early	l ate	Party	Late	Early	ماها	Barly		Barty		Early		Early		477.1
A.Labour Force Available (1/0/X) man-days)		13.6	15.6				15.6	15.6	15.6	5.6	15.6	15.6	15.6	15.6	15.6				1.5.6	15.6	15.6	15.6	15.6	15.6	375.1
Labour Requirement for Farming Activities			Proposed	rate of	Basic C	ropping	Pattern	:	1		Intensiv	e - III (	30%	•	Remote	- El (	70%	, ;	> .	1.7					
IntIII RentII			•						- '												20				216
It Pasty (50%) (50%) 56ha (monthly requirement: 1,000 man-days)	0.0	0.0	0.0	0.0	0,0	0.0	0,0	0.0	0.0	0.0	12 0.7	26 1.5	39 2.2	19 1.6	1,0	0.4	0.5	0.4	0.4	1.2	<u> 1.1</u>	1.0	0.1	0.0	12.1
21 Potato (25%) (0%) 8ha (monthly requirement: 1,000 man-days)	24 0.2	11 0.1	11 0.1	11: 0.i	42 0.4	41 0.3	5 0.0	0.0	0,0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0,0	U, I	0.3	36 0.3	1.9
3) Early Potato -1 (25%) (0%) 8ha	17 0.1	44 0.4	41 0.3	,5 0,0	0.0	0.0	0.0	0.0	U.O	0.0	0.0	n.u	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	31 0.1	46 0.4	24 0.2	0.2	226 1.9
(monthly requirement: 1,000 man-days)  4) Early Potato -2 (0.5) (25%) 20ha	18 0.4	17	44 0.9	741 0.8	5 0.1	0.0	0,0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0,0	0,0	11.0	91 0.6	46 0.9	24 0.5	216 4.4
(monthly requirement: 1,000 mon-days)  6) Late Polato (0%) (0%) Oha			34 0.0	46 0.0	24- 0.0	18	17	41 0.0	41	5 0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.6	0.0	0,0	0,0	0.0	0.0	0.0	226 0.0
(morthly requirement: 1,000) man-days) 7) Legumes (0%) (25%) 20ha	0,0	8	. 6	6	28	29	25	0.0		20	0,0	0.0	0.0	0.0	0.0	0.0	<b>U</b> .0	0.0	0,0	0.0	0.1	0.2	0.2	U.2	3.0
(monthly requirement : 1,000 (man-days)	0.2			_9.1_	0.5	9.6	0.5 35	17	[1.9										· · · · · · ·				11	24 0.0	325 0.0
8) Green Leaf Veg1 (0%) (0%) (that (morably requirement : 1,000 man-days)	0.0		47 0,0	55 . 0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	6.0	0.0	00	0.0	0.0	0,0	0.0	0.0	0.0	0.0	41	323
9) Green Leaf Veg2 (25%) (0%) Sha (monthly requirement; 1,000 man-days)	45 0.4		38 0.3	63	59 0.5	20 0.2	0,0	0.0	0.0	0,9	0.0	0.0	0.0	0.0	0,0	0,0	0.0	0.0	0,0	0,0	0.0	0.0	<u> 0.i</u>	40.3	3.7
10)Summer Veg. (50%) (50%) 56ta (monthly requirement: 1,000 man-days)	0,0	0.0	0.0	0.0	0.0	0.0	1.3 0.7	30	34 1.9	40 2.2	- 41 2.3	43 2.4	. 36 2.0	1.8	26 1.5	22 1.3	0.5	0,0	0.0		0.0	0.0	0.0		18.3
HiWinter Veg 1 (50%) (0%) 17ha		17	0.0	0.0	0.0	0,0	0.0	0.0	0.0		6.0	0.0	0.0	0,0	14 0,2	27 0.5	33 0,6	39 0,7	3.3 0.6	0.4	0.7	9.8 0.8	41 (1.7	0.7	6.6
(monthly requirement: 1,000 man-days) 12(Winter Veg 2 (0%) (25%) 200a	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0,0	0.0	0.0	19 0.4	38 0.7	48 0.9	38 0.7	29 0.6		45 0.9		,55 1.1	0,5	390 7.6
(monthly requirement : 1,000 man-days) 13(Spicer (1955) 20ba		lo	14 0.3	68 1.3	8-1 1.6	80	24 0.5	0,0	0.0	0,0	0.0	0.0	0.0	0,0	0.0	0,0	0.0	0,0	25 0.5	1.1	9 <u>2</u> 1.8		,50 1,0	0.3	610 12.0
Total Labour Use (Total area: 232ha				1.3	3.1	1.7	1.7	1.3	1.9		3.0	3.9	.: 4.2	3.5	3.1	3.8	2.5		1.1		4.8		4.6		
C.Balance A + B	13.5			12.7	12.5	11.9	13.9	1,1.9	13.7	13.4	12.7	11.8	11.4	12.3	12.6	12.8	13.1	13.8	13.6		10.18	9.9	11.0	12.0	
[ BtA = % ]	. 14			19	20	17	11	11	- 13	14	19	25	27	22	24)	18	16		(3	20	31	37	20		(continu

Table 6-1 Monthly Labour Balance under With Project Condition in Each Scheme (4/5)

<al-10 kotkhu=""></al-10>		<	Farm Po	pulatio		6,862	i lia	anamie	ally Acti		ulation l	Rate		75.0%			re Labo			48,5%			ann la	ad area	246 jas
		Lun.	Fe	h,	Ma	r.	ΑĮ	pr.	Ma	y	Ju.	D.	Jul	l. ————		18.	50	ъ.		ct.	N-	٥٧.	D	ec.	Total
	Early	Late	Early	Late	Harly	Late	Early	Late	Farly		Early		Early		Early		Emly		Early		Early		Euty	Late	
A Labour Force Available (1000 man-days)	30.4			30.4	30.4	10.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	728.8
B. Labour Requirement for Farming Activities		<	Propose	d rate of	Dasic €	ւսներյուն	Pattern	ι:			Intensis	ve - l	( 30%)	ı	Remote	:-l (	70%	<b>)</b>	>						
IntI RentI																									
<ol> <li>Paddy (50%) (50%) 123ha (monthly requirement : 1,000 man-days)</li> </ol>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	26 3.2	4.8	19 3.6	18 2.2	0.9	1.1	1.0	1.0	21 2.6	20 2.5	18 2.2	0.1	0.0	216 26.6
<ol> <li>Potato (25%) (25%) 62ha (monthly requirement: 1,000 man-days)</li> </ol>	24 1.5	11 0.7	11 0.7	11 0.7	42 2.6	41 2.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0,0	0.0	0.0	0.0	14 0.9	31 1.9	36 2.2	
<ol> <li>Early Potato -1 (25%) (0%) 18ha (monthly requirement : 1,000 man-days)</li> </ol>	17 0.3	.14 0.8	41 0.8	5 0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31 0.6	45 0.8	24 0.4	18 0.3	
<ol> <li>Early Potato -2 (0%) (0%) Oha (monthly requirement : 1,000 man-days)</li> </ol>	18 0,0	17 0.0	44 0.0	41 0.0	5 0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46 0.0	24 0.0	
6) Late Potato (25%) (0%) 18ha (monthly requirement : 1,000 man-days)	0.0	0.0	31 0.6	46 0.8	24 0.4	18 0.3	17 0.3	44 0.8	41 0.8	5 0,1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	226 4.2
7) 1.egumes (0%) (25%) 43ha (monthly requirement : 1,000 man-days)	8 0.3	0.3	6 0,3	6 0.3	28 1.2	29 1.2	25 1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	4 0.2	9 0.4	12 0.5	12 0.5	141 6.3
8) Green Loaf Veg1 (50%) (0%) 37ha (monthly requirement: 1,000 man-days)	28 1.0	29 1.1	47 1.7	55 1.0	40 1.5	39 1.4	35 1.3	17 0.6	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	11 0.4	24 0.9	325 12.0
9) Green Leaf Veg2 (0%) (0%) Gha (monthly requirement : 1,000 man-days)	45 0.0	33 0.0	.18 0.0	63 0.0	59 0.0	29 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	17 0.0	41 0.0	325 0.0
10)Summer Veg. (50%) (50%) 123ha (monthly requirement: 1,000 man-days)	0.0	0.0	0.0	0.0	0.0	0.0	13 1.6	30 3.7	34 4.2	40 4.9	41 5.0	43 5.3	.36 4.4	33 4.1	26 3.2	22 2.7	9 	0.0	0.0	0.0	0.0	0.0	0.0	0.0	327 40.2
11 (Winter Veg. • 1 (50%) (0%) 37ha (mondily requirement : 1,000 man-days)	34 1.3		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	14 0.5	27 1.0	33 1.2	39 1.4	33 1.2	24 0.9	39 1.4	48 1.8	43 1.6	39 1.4	
12 (Winter Veg. + 2 (0%) (25%) 43ha (monthly requirement : 1,000 man-days)	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19 0.8	38 1.6	48 2.1	,38 1.6	29 1.2	26 1.1	45 1.9	64 2.8	55 2.4	28 1.2	390 16.8
13) Spices (0%) (25%) 43ha (monthly requirement : 1,000 man-days)	16 0.7		(4 0.6	68 2.9	84 3.6	80 3.4	24 1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25 1.1	54 2.3	92 4.0	72 3.1	50 2.2	15 0.6	
Total Labour Use (Total area: 547ha	) 5.L	4.2	4.6	6.8	9.3	9.0	5.6	5.1	4.9	5.0	6.5	8.5	9.2	7.6	6.7	6.2	5.5	4.1	4.5	6.9	10.5	11.9	9.5	7.1	164.8
C. Balance [ A - B ] [ B/A = % ]	25.3 17		25.8 15	23.5 22	21.0 31	21.4	24.7 19	25.2 17	25.4 1.6	25.4 17	23.8	21.9 28	21.1 30	22.7 25	23.6 22	24.2 20	24.9 18	26.3 13	25.8 15	23.5 23	19.8 35	18.4	20.9 31		

<al-13 lubhu=""></al-13>			< Fan		pu lation		3,448	Pe	onomie			pulation	Rate	· ·	67.2%			re Labor			48.7%	1		Parm lan		
		Jan.		Fet		Ma		A		M	<u> </u>	Ju		lu		Λι	***********	Se		()		N		D		Total
	Har	ly Lat		arty	Late	Farly	l.ato	Farly		Early		Early		Luly		Early		Early		Early		Early		Early	Late	
A. Labour Force Available (1'000 man-days)	13	.7 13	.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13,7	13,7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	329.5
B. Labour Requirement for Farming Activities		•	Pro	posed	l rate of	Basic (	ropp ing	Pattern	;			Intensi	ve - 111	( 50% )	1	Remote	- II (	50%	,	>						
IntIII RemtII																										
<ol> <li>Packly (50%) (50%) 651 (monthly requirement: 1,000 man-days)</li> </ol>		.0 0	.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	D.O	12 0.8	26 1.7	39 2.5	29 1.9	18	0.5	9 0.6	0.5 0.5	0.5	21 1.4	20 1.3	18 1.2	1 0.1	0.0	216 14.0
<ol> <li>Potato (25%) (9%) 161 (monthly requirement: 1,000 man-days)</li> </ol>		24 : 24 0	.2	11 0.2	11 0.2	42 0.7	41 0.7	5 0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14 0.2	31 0.5	36 0.6	226 3.7
<ol> <li>Early Potato -1 (25%) (0%) 161 (monthly requirement: 1,000 man-days)</li> </ol>	A 0		14 .7	41 0.7	5 0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31 0.5	46 0.7	24 0.4	18 0.3	226 3.7
4) Early Polato -2 (0%) (25%) 161 (monthly requirement: 1,000 man-days)		.3 0	.3	44 0.7	41 0.7	5 0.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31 0.5	46 0.7	24 0.4	226 3.7
6) Late Potato (0%) (0%) 01 (monthly requirement : 1,000 man-days)		.00	.0	31 0.0	46 0.0	24 0,0	81 0.0	17 0,0	44 0.0	41 0,0	5 0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	226 0.0
7) Legumes (0%) (25%) 16h (monthly requirement: 1,000 man-days)	. 0	8 .1 0	8 .l	6 0.1	6 0.1	28 0.5	29 0.5	25 0.4	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	4 0.1	9 0.1	12 0.2	12 0.2	(47 2.4
8) Green Leaf Veg1 (0%) (0%) 0h (monthly requirement: 1,000 man-days)	a 2		9 .0	47 0.0	55 0.0	40 0.0	19 0.0	35 0.0	17 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	t 1 0.0	24 0.0	325 0.0
<ol> <li>Green Leaf Veg2 (25%) (0%) 16th (monthly requirement: 1,000 man-days)</li> </ol>	a .		3 5	38 0.6	63 1.0	59 1.0	29 0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17 0.3	41 0.7	325 5.3
<ol> <li>Summer Veg. (50%) (50%) 65h (monthly requirement: 1,000 man-days)</li> </ol>		.0_0	0	0.0	0.0	0.0	0,0	13 0.8	30 2.0	3-1 2.2	40 2.6	41 2.7	43 2.8	36 2.3	33 2.1	26 1.7	22 1.4	9 0.6	0,0	0,0	0.0	0.0	0.0	0.0	0,0	327 21.3
11) Winter Veg 1 (50%) (0%) 33h (monthly requirement : 1,000 maxi-days)	a :	4 1 1 0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	14 0.5	27 0.9	33 1.1	39 1.3	33 1.1	24 0.8	39 1.3	48 1.6	43 1.4	39 1,3	390 12.7
12) Winter Veg 2 (0%) (25%) 16h (monthly requirement: 1,000 man-days)	a 0	0 0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19 0.3	38 0.6	48 0.8	38 0.6	29 0.5	26 0.4	45 0.7	64 1.0	55 0.9	28 0.5	390 6.3
13) Spices (0%) (25%) 16th (monthly requirement : 1,000 man-days)	• I		6 3	14 0.2	68 1.1	84 1.4	80 1.3	24 0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25 0,4	54 0.9	92 1.5	72 1.2	50 0,8	15 0.2	610 9.9
Total Labour Use (Total area : 276h	) 3	2 2.	6	2.5	3.2	3.5	2.9	1.7	2.0	2.2	2.6	3.4	4.5	4.9	4.0	3.6	3.4	3.0	2.4	2.5	3.4	5.4	6.6	5.3	4.1	82.9
C. Dalanco [ A - B ]	10				10.6	10.2	10.8	12.0	11.8	11.5		10.3	9.2	8.9	9.7	10.1	10.3		11.3	11.3	10.3	8.4	7.2	8.4	9.6	246.6
(B/A = %)	2	3 1	9	18	23	26	21	13	14	61	19	25	33	36	29	26	25	22	18	18	25	39	48	38	30	25

<al-19 -="" bhalraw="" i="" thika=""></al-19>			Farm Po			11,530	) Ec	onomic	ally Act	ive Pop	ulation I	Eate .	. (	70.3%	i Ag	ricultu	re Labo	ur Raio	{	36.6%	1		Fana lar		497 ha)
		lan.	Pe	ъ	Ma	r.	ΑΑ	pr,	M	y	Ju	ı.	Ju	ıl.	Au	8-	S	ep.	0	ÇI.	N	QV,	D	ec.	Total
<u> </u>	Early	Late	Farly	Late	Early	Late	Parly	Late	Party	Late	Early	1.46	Euly	Late	Early	Late	Early	.ale	Early	Late	Early	Late	Early	Late	
A. Labour Force Available (1'000 man-days)	36.1	36.t	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.	36.1	36.1	36.1	866.3
B. Labour Requirement for Parming Activities		<	Propose	d sate o	f Basic C	roppin	g Pattern	:			Intensi	re-1 (	30%	ı	Remote	-1 (	70%	, ;	>						
IntF Remt1																									
<ol> <li>Paddy (50%) (50%) 249ha (monthly requirement: 1,000 man-days)</li> </ol>	0.0	0.0	0.0	0.0	0.0	0.0	D.Q	0.0	0.0	0,0	12 3.0	26 6.5	39 9.7	19 7.1	8 - 4.5	1.7	9 2.2	2.0	8 2.0	21 5.2	20 5.0	18 4.5	0.2	0.0	216 53.7
<ol> <li>Potato (25%) (25%) 124ha (monthly requirement : 1,000 man-days)</li> </ol>	24 3.0		11 1.4	11	42 . 5.2	41 5.1	5 0.6	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0,0	0,0	0.0	0.0	0.0	0.0	0.0	14 1.7	31 3.9	36 4.5	126 28.1
3) Early Potato -1 (25%) (0%) 37ha (monthly requirement: 1,000 man-days)	17 0.6		41 1.5	. 0.1	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0,0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0,0	3i 1.2	46 1.7	24 0.9	18 0.7	226 8.4
4) Early Porato -2 (0%) (0%) Oha (monthly requirement: 1,000 man-days)	81 0,0		44 0.0	41	5 0.0	0.0	0,0	0.0	0.0	0,0	0.0	0,0	0.0	0.0	0.0	D,0	0.0	0.0	0.0	0.0	0.0	31 0.0	46 0.0	24 0,0	226 0.0
6) Late Potato (25%) (0%) 37tha (monthly requirement; 1,000 tran-days)	0.0	0.0	31 1.2	-16 1.7	24 0.9	18 0.7	17 0.6	44 1.6	41 1.5	5 0.2	0.0	0.0	0.0	0.0	0,0	9.0	:0,0	0.0	61.0	0,0	0.0	0.0	0.0	0.0	226 8.4
7) Legumes (0%) (25%) 87ha (monthly requirement: L900 man-days)	8 0,7	0.7	6 0.5	6 0.5	28 2.4	29 2.5	25 2.2	0.0	6,0	0.0	0,0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	4 0.3	0.8	12 1.0	12 1.0	147 12.8
<ol> <li>Green Leaf Veg. 1 (50%) (0%) 75ha (monthly requirement: 1,000 man-days)</li> </ol>	28 2.1	29 2.2	47 3.5	55 4.1	40° 3.0	39 3.9	35 2.6	17 1.3	0,0	0.9	0,0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0.0	0,0	11 0.8	24 1.8	125 24.1
9) Circen Leaf Veg2 (0%) (0%) 0ha (monthly requirement: 1,000 man-days)	45 Q.0	33 0.0	38 0.0	63 0.0	59 0.0	29 0.0	0,0	0.0	0.0	0,0	0,0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0,0	0.0	17 0.0	41 0,0	325 0.0
[Di Summer Vog. (50%) (50%) 249ha (monthly requirement: 1,000 man-days)	0,0	0.0	0.0	0,0	0.0	0.0	13 3.2	30 7.5	34 8.4	40 9.9	41 10.2	43 10.7	36 8.9	33 8.2	26 6.5	22 5.5	2.2	0,0	0.0	0,0	0.0	0,0	0.0	0.0	327 81.3
11) Winter Veg 1 (50%) (6%) 75ha (monthly requirement: 1.000 man-days)	.34 2.5	1.3	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	14 1.0	27 2.0	33 2.5	39 2.9	33 2.5	24 1.8	39 2.9	48 3.6	43 3.2	39 2.9	390 29.1
(2) Winter Vog 3 (0%) (25%) 87ha (nonthly requirement : 1,000 man-days)	. 11.0	0.0	0.0	0.0	0,0	0.0	0,0	0.0	0.0	0.0	0.0	0,0	0,0	11.0	19 1.7	.18 3.1	48 4.2	38 1.3	29 2.5	26 2.3	45 3.9	64 5.6	55 4.8	28 1,4	390 13.9
(3) Spices (0%) (25%) 87ha (monthly requirement: 1,900 man-days)	6   <i>A</i>	16 I.4	14	68 5.4	84 7.3	7.0	24 2.1	0.0	0.0	0,0	0.0	0.0	0.0	0,0	0,0	0.0	. 0.0	0.0	25 2.2	54 4.7	9 <u>2</u> 8,0	72 6.3	50 4.3	15 1.3	619 53.5
Total Labour Use (Fotal area: 1,1061m	10.3	8.5	9,3	13.8	18.8	18.3	11,4	10.4	10.0	10.1	13.2	17.1	18.6	-15.4	13.6	12.5	11.1	8.2	9.1	14.0	21.3	24.1			
C Balance   A - B	25.3	27.6	26.8	22.3	17.3	7.9	24.7	25.7	26.	26.0	22.9	18.9	17,5	20.7	22.5	23.6	25.0	27.9	26.9	22.1	14.8	12.0	16.9	21.5	513.3
IVA = %	29	24	16	.38	52	30	31	20	28	28	36	48	52	43	38	35	31	23	25	.19	59	67	53	41	38

(continued)

Table 6-1 Monthly Labour Balance under With Project Condition in Each Scheme (5/5)

										•															
- a Madaure fis		e 1	Farm Pop	ubstion		3,655 1	Rec	nomic.	dby Activ	re Popu	itation Ra	re.	( 73	1.2% )	Agric	ulture l	Labour	Rate	( -	40.6%	)		Farm lan		88 ha
AL-20 Thika Bhatraw - H>	ī.		Feh	******	Ma		Арі		Ma		Jun		Jul.		Aug		Ser		Oc	l	N.	v.	p	x.	Total
	Early	Late	Early	Late	Larly	Late	Early	Late	Karly	Late	Early	ale	Rady I	alu	Early La	ite li	iarly	.atc		Late		Late	Party		
A Labour Force Available (1'000 mon-days)	13.0		13.0	13.0	13.0	13,0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0 i	3.0	3.0	130	13.0	\$ 3.0	13.0	13.0	13.0	13.0	312.8
A Labour Porce occurrent for Parining Activities			Proposed	rate of	f Basic C	'ropping	Patem	:			Intensive	e-1 (	50%		Remote - I	(	50%)	>	•						
B.Labour Requirement for Partiting Activates Intf Reput-1						110																			
contract Prints Adv.											12	26	39	29	18	7	9	8	8	21	20	18	. 1		216
(monthly requirement : 1,000 man-days)	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.5	1.1	1.7	1.3	8.0	0.3	0.4	0.4	0.4	0.9	0.9	0.8	0.0	0,0	9.5
(25%) (25%), 22ha	24	11	11	[1	42	41	5							0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14 0.3	0.7	36 0.8	226 5.0
(monthly requirement : 1,000 man-days)	0.5	0.1	0.2	0.2	0.9	0,9	0.1	0,0	0.0	0,0	6.0	0,0	0.0	0.03		0.0					31	46	2.1	18	226
1. F. d. Patato 1 (25%) (0%) 14ha	17	44	41 0.5	5 0.1	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0.0	0.3	0.5	0.3	0.2	2.5
(monthly requirement: 1,000 man-days)	0.2	0.5		<i></i>		0.0	12,12															31	46	24	226
4) Early Potato -2 (0%) (0%) Oha	8J 0.0	0.0	44 0.0	41 0.0	9.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0,0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(monthly requirement: 1,000 man-days)  (1.1 of Postar (25%) (0%) Tha			31	46	24	18	17	44	41	5	.,												0.0		226 2.5
6) Late Potato (25%) (0%) 11ha (monthly requirement : 1,000 man-days)	0.0	0.0	0.3	0.5	0.3	0.2	0.2	0.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
(0/5) (3\$(5) 11b)	8	8	6	6	28	29	25								0.0	0.0	0.0	0.0	0.0	0.0	0.0	9 0.1	1.2 0.1	12 0.1	147 1.6
(monthly requirement: 1,000 man-days)	0.1	0,1	0.1	0.1	0.3	0,3	0.3	0.0	0.0	0.0	0.0	0,0	0.0	0,0		0.0		12.0					11	24	325
e. Gesen Leaf Veg1 (50%) (0%) 22ha	18		47	.55	40	39 0.9	35 0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	7.2
(monthly requirement : 1,000 man-days)	0.6		1.0	1.2	0,9	*.**	0.8	0.4	0.0	(7.17													17	41	325
9) Green Leaf Veg2 (0%) (0%) Oha	45 0.0	0.0	.38 0.0	63	59 0.0	29 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	U.O	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(monthly requirement: 1,000 man-days)							13	30	34	40	41	43	36	.13	26	22	q								327 14.4
(monthly requirement: 1,000 (man-days)	0,0	0.0	0.0	0.0	0.0	0.0	0.6	1,3	1.5	1.8	1.8	1.9	1.6	1.5	<u>L.1</u>	1.0	0.4	0.0	0.0		0.0		0.0	0.0	
111Winter Veg1 (50%) (0%) 22ha	34	17			22										14	27 0.6	33 0.7	39 0.9	33 0.7		39 0.9		43 0.9	39 0.9	390 8.6
(monthly requirement: 1,000 man-days)	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0				38	19		45		55	28	390
11.Wester Veg. • 2 (0%) (25%) 11ha					•••		0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	19 0.2	38 0.4	48 0.5	0.4	0.3		0.5		0.6		4.3
(monthly requirement : 1,000 man-days)	0.0		0.0	0.0	0.0		0.0	0,11	0.0	0.0						.=		,	25		92	72		15	610
(0%) (25%) 11tha (monthly requirement : 1,000 man-days)	16 0.2			68 0.7	84 0.9	80 0.9	24 0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3		1.0	0,8			
				2.8	3.3		2.2	2.2	1.9	1.8	2.3	3.0	3.3	2.7	3.5	2.3	2.0	1.6	1.7	2.3	3.6	4.3	3.5	3.0	
1 albeit either diese eine eine eine eine eine eine eine	10.7			10.2	9.7		10.9	10.9	11.1	11.2	10.7	10.0	9.7	10.3	10.6	tG.7	11.0	11.4	114	10.7	9,4	8.8	9.6		250,7
C.Balanco (A - D )	18		10.7	22			17	17	15	14	18	23	25	21	19	18	16	12	13	18	28	33	27	23	20
[ B/A = % }	19	13	מן		4.1																				

Table 6 - 2 Summary of Future Labour Balance in Each Scheme (1/2)

																							00 man-		
	Ja		Fe		M		- Ap		Ma		Ju		Jul		Au		Se		Early		No		De		7
	Harly	Late	Early	ate	Early	Late	Early	Late	Early	Late	Early	Late	tarty	Late	Early	t.ate	Ewly	I.etc	tany	Late	Early		Barly	Late	
thmanda District																									
KK-04 Biswambhara (F	arm Popu	dation :	1,232			Econon	nie Activ		ulation Ra	ue:	80.0%		/		ure Lab			43.8%				and area		92 H	na)
A. Labour Force Available	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	- 1
B. Total Labour Use for Farming Activities	2.4	2.1	2.4	3.0	3.5	3.3	2.3	2.3	2.0	1.9	2.4	3.2	3.5	2.9	2.6	2.4	2.1	1.7	t.7	2.4	3.8	4.5	3.6	3.1	
C. Balance (A-B)	2.8	3.2	2.9	2.3	1.8	2.0	3.0	3.0	3.2	3.4	2.8	2.1	1.8	2.4	2.7	2.9	3.1	3.6	3.5	2.8	1.5	9.8	1.6	2.1	
[B/A=%]	47	40	46	56	66	63	43	43	39	36	46	60	66	54	49	46	41	32	33	46	72	85	69	59	
	artı Popu							•	ulation R		72.1%			-	ure Lab			46.5%	10.0			and area		122 H	
A. Labour Force Available	10.0	10.0	10.0	10.0	10.0	10,0	10.0	10.0	10.0	10.0	10.0	10,0	10.0	10,6	10.0	10.0	10.0	0.01	10.0	10.0	10.0	10.0	10,0	10.0	
B. Total Labour Use for Parming Activities	2.5	1.1	2.3	3.4	4.6	4.5	2.8	2.5	2.4	2.5	3.2	4.2	4.6	3.8	3.3	3.1	2.7	2,0	2.2	3.4	5,2	5.9	4.7	3.6	
C. Balance [ A - B ]	7.4	7.9	7.7	6.6	5.3	5.5	7.2	7.4	7.5	7.5	6.7	5.7	5.4	6.2	6.6	6.9	7.2	7.9	7.7	6.5	4.7	4.0	5.2	6.4	
[ B/A = % ]	25	21	23	34	46	45	28	26	2.5	25	32	42	46	38	34	31	27	20	23	Н	53	59	47	36	
	arm Popu								ulation Ra		72.7%	7.0		_	ura Lah			63.2%	7.0	70		and area		67 1	ha)
A. Labour Force Available	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7,9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	
B. Total Labour Use for Farming Activities	1.8	1.5	1.7	2.2	2.5	2.4	1.7	1.7	1.5		1.8	2.3	2.5	2.1	1.9	1.7	1.6	1.2	1.3	1.8	2.8	3.2	2.6	2.3	
C. Dalance [ A - B ]	6.1	6.4	6.2	5.7	5.4	5.5	6.2	6.2	6.4	6.5	6.1	5.6	5.4	5.8	6.0	6.2	6.3	6.7	6.6	6.1	5.1	4.7	5.3	5.6	
[ B/A = % ]	23	19	31	27	32	30	21	21	19	18	22	29	32	26	24	23	20	16	16	22	35	41	.33	29	
K-14 indrayani ( F	arın Popu	lation :	1,611		1	копоп	nie Activ	e Popu	ulation Ra	de :	71.1%			gricult	nte l'ap	our Rate		61.9%			Farm la	ınd area	ι:	lot b	ua)
A. Labour Force Available	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8,6	
B. Total Labour Use for Farming Activities	2.7	2.3	2.6	3.2	3.8	3.6	2.5	2.5	2.2	2.1	2.7	3.5	3.8	3.1	2.8	2.6	2.3	1.9	1.9	2.7	4.2	4.9	4.0	3.4	
C. Balante [ A+B ]	5.9	6.3	6.0	5.4	4.8	5.0	6.1	6.1	6.4	6.5	5.9	5.1	4.8	5.5	5.8	6.0	6.3	6.8	6.7	5.9	4.5	3.7	4.6	5.2	
[B/A = %]	31	27	30	38	44	42	29	29	26	24	31	40	44	36	33	30	27	22	22	31	48	57	46	40	
.K-25 Shali Nadi ( F	arın Popu	detions	1 780			ioonari	nic Activ	of Dans	alation Re	ite :	67.5%			. azienît	ure Labe	our Pale		50.4%			Farm ta	nd area	. ,	157 h	
A. Labour Force Available	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6		15.6	15.6	15.6	15.6	15.6	15.6		15.6	15.6	15.6	15.6	_,
B. Total Labour Use for Farming Activities	5.1	45	5.2	5.7	5.8	5.5	4.2	4.5	3.8	3.3	4.2	5.4	5.9	4.9	4.4	4.2	1.8	3.2	3.1	3.9	6.2	7.6	6.3	6.0	
C. Balança [ A - B ] [ B/A = % ]	10.5 33	11.2 28	10.4 33	9.9 37	9.8 37	10.1 35	11.5 27	11.1 29	11.9 24	12.4 21	11.5 27	10.2 35	9.8 38	10.8 31	11.2	11.4 27	11.9 24	12.4 21	12.6 20	11.7 25	9.4 40	8.1 48	9.3 40	9.6 38	
ub-Total																									-
	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4		47.4	47.4	47.4	47.A	47.4	47.4	47.4	47.4	47.4	47.4	47.4	
A. Labour Force Available							• • • • •																		ŀ
B. Total Labour Use for Farming Activities	[4.6	12.5	14.3	17.5	20.2	19.3	13.4	13.5	12.0	11.1	14.3	18.6	20.2	16.7	15.0	14.0	12.6	10.0	(0.3	14.2	22.2	26.1	21.2	18.4	
C. Balance [ A - H ]  [ B/A = % ]	32.9 31	35.0 26	33.t 30	30.0 37	27.2 43	18.1 41	34.0 28	33.9 28	35.4 25	36.3 23	33.1 30	28. B 39	27.1 43	30.7 35	32.4 32	33.4 30	34.9 26	37.4 21	37.2 22	33.2 30	25.2 47	21.3 55	26.2 45	29.0 39	
													75			~	,								
aktapur District i B-02 Bldol ( Fo	<b>N</b>							. n.	m.		/ F n m										В			22.1	
	aran Popul								Ilation Re		65.0%			-	ure Labo			50.7%			Farm ta			32 h	Ta j
A. Labour Force Available	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	
B. Total Labour Use for Farming Activities	0.7	0.5	0.6	0.9	1.2	1.3	0.7	0.7	0.6	0.7	0.8	1.1	1.2	1.0	0.9	8.0	0.7	0.5	0.6	0.9	1.4	1.6	1.2	0.9	
C. Balance [ A - B ]	4.2	4.3		4.0	1.0	3.7		4.2	4.2	4.2		3.7	3.7	3.9	4.0	4.0	4.1	4.3					1.0	3.9	
			4.3		3.6		4.1				4.0	3. f	3.1		4.0		4.1		4.3	4.0	3.5	3.3	3.6		
[ 10/A = % ]	14	£1	4.3 12	18	25	24	4.1 15	14	13	13	4.0 17	23	25	20	18	17	15	П	4.3 12	4.0 19	3.5 28	3.3	25	19	
**************************************			12	18	25	24	15		13	13	17		25	20	18		15	п		19		32	25		A)
B-16 Kalunja ( P.	arm Popul	lation:	12 967		25 I	24 Zeenojn	15 tie Activ	е Рори	13 Lation Ra	3  do:	17 62.5%	23	25 A	20 gricult	18 ure Labo	our Rate	15	11 54.1%	12	19	28 Farm Jar	32 nd area	25	40 h	u)
B-16 Kaluaje ( F. A. Labour Porce Available	arrei Popul	lation:	967 4.0	4.0	25 I 4.0	24 Zeonoin 4.0	15 sic Activ	e Popu	13 Pation Ra 4.0	13 do : 4.0	17 62.5% 4.0	23 4.0	25 A 4.0	20 griculn 4.0	18 ure Labo 4.0	our Rate	15 4,0	11 \$4.1% 4.0	4.0	4.0	28 Farm Jar 4.0	32 nd area 4,0	25 1 : 4.0	46 h	u)
B-16 Kaluaje ( P. A. Labour Porce Available B. Total Labour Use for Farming Activities	4.0 1.0	lation: : 4.0 0.8	967 4.0 0.8	4.0 1.0	25 I 4.0 [.1	24 Conoin 4.0 0,9	15 sic Activ 4.0 0.5	e Popu 4.0 0.6	13 Lation Ra 4.0 0.7	13 4.0 0.8	17 62.5% 4.0 1.1	23 4.0 1.4	25 A 4.0 1.5	20 griculn 4.0 1.2	18 ure Labo 4.0 1.1	eur Rate 4,0 1.0	15 4.0 0.9	11 \$4.1% 4.0 0,7	4.0 0.8	19 4.0 1.1	28 Farm Jar 4.0 1.7	32 nd area 4,0 2.0	25 1.0 1.6	40 h 4.0 1.3	и)
B-16 Katuaje ( P. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [ A-B ]	4.0 1.0	4.0 0.8 3.2	967 4.0 0.8 3.2	4.0 1.0	25 I 4.0 1.1 2.9	24 Econom 4.0 0.9	15 sic Activ 4.0 0.5	4.0 0.6	13 Plation Ra 4.0 0.7 3.3	13 do: 4.0 0.8 3.2	62.5% 4.0 1.1	4.0 1.4 2.6	25 A 4.0 1.5 2.5	20 agricultu 4,0 1,2 2,7	18 ure Labo 4.0 1.1 2.9	9ur Rate 4,0 1.0	15 4.0 0.9	11 54.1% 4.0 0,7	4.0 0.8 3.2	4.0 1.1 2.9	28 Farm Jar 4.0 1.7	32 nd area 4,0 2.0	25 4.0 1.6 2.4	40 h 4.0 1.3	и)
B-16 Kalunje ( P. A. Labour Porce Available B. Total Labour Use for Farming Activities	4.0 1.0	lation: : 4.0 0.8	967 4.0 0.8	4.0 1.0	25 I 4.0 [.1	24 Conoin 4.0 0,9	15 sic Activ 4.0 0.5	e Popu 4.0 0.6	13 Lation Ra 4.0 0.7	13 4.0 0.8	17 62.5% 4.0 1.1	23 4.0 1.4	25 A 4.0 1.5	20 griculn 4.0 1.2	18 ure Labo 4.0 1.1	eur Rate 4,0 1.0	15 4.0 0.9	11 \$4.1% 4.0 0,7	4.0 0.8	19 4.0 1.1	28 Farm Jar 4.0 1.7	32 nd area 4,0 2.0	25 1.0 1.6	40 h 4.0 1.3	и)
B-16 Katunje ( P. A. Labour Porce Available B. Total Labour Use for Farming Activities C. Balance [ A - B ] [ B/A = % ]	4.0 1.0	4.0 0.8 3.2 20	967 4.0 0.8 3.2 19	4.0 1.0	25 4.0 1.1 2.9 27	24 Econom 4.0 0.9 3.1 23	15 sie Activ 4.0 0.5 3.4 13	4.0 0.6 3.4 1.5	13 Plation Ra 4.0 0.7 3.3	13 4.0 0.8 3.2 20	62.5% 4.0 1.1	4.0 1.4 2.6	25 A 4.0 1.5 2.5 38	20 agricultu 4.0 1.2 2.7 31	18 ure Labo 4.0 1.1 2.9	4.0 1.0 2.9 26	4.0 0.9 3.0 23	11 54.1% 4.0 0,7	4.0 0.8 3.2	4.0 1.1 2.9 27	28 Farm Jar 4.0 1.7	32 nd area 4.0 2.0 2.0 51	25 4.0 1.6 2.4 41	40 h 4.0 1.3	
B-16 Katunje ( P. A. Labour Porce Available B. Total Labour Use for Farming Activities C. Balence [A - B] [B/A = %]	4.0 4.0 1.0 3.0 25	4.0 0.8 3.2 20	967 4.0 0.8 3.2 19	4.0 1.0	25 4.0 1.1 2.9 27	24 Econom 4.0 0.9 3.1 23	15 sie Activ 4.0 0.5 3.4 13	4.0 0.6 3.4 1.5	13 Lation Ra 4.0 0.7 3.3 17	13 4.0 0.8 3.2 20	62.5% 4.0 1.1 2.9 27	4.0 1.4 2.6	25 A 4.0 1.5 2.5 38	20 agricultu 4.0 1.2 2.7 31	18 4.0 1.1 2.9 28	4.0 1.0 2.9 26	4.0 0.9 3.0 23	\$4.1% 4.0 0,7 3.2 19	4.0 0.8 3.2 19	4.0 i.1 2.9 27	28 Farm lar 4.0 1.7 2.3 41 Farm lar	32 nd area 4.0 2.0 2.0 51	25 4.0 1.6 2.4 41	40 h 4.0 1.3 2.7 32	
B-16 Katunje	4.0 1.0 3.0 25	4.0 0.8 3.2 20	967 4.0 0.8 3.2 19	4.0 1.0 3.0 24	25 I 4.0 1.1 2.9 27	24 Conom 4.0 0.9 3.1 23	15 sic Activ 4.0 0.5 3.4 13	4.0 0.6 3.4 15	13 4.0 0.7 3.3 17	13 4.0 0.8 3.2 20	62.5% 4.0 1.1 2.9 27 67.0%	4.0 1.4 2.6 35	25 A 4.0 1.5 2.5 38 A 3.0	20 griculn 4,0 1,2 2,7 31 griculn	18 ure Labo 4.0 1.1 2.9 28 ure Labo	2.9 26	15 4.0 0.9 3.0 23	11 54.1% 4.0 0.7 3.2 19	4.0 0.8 3.2	4.0 1.1 2.9 27	28 Farm Jar 4.0 1.7 2.3 41	32 nd area 4,0 2,0 2,0 51	25 4.0 1.6 2.4 41	40 h 4.0 1.3 2.7 32 43 h	
B-16 Katunje (P. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-12 Kutudhal (P. A. Labour Force Available B. Total Labour Use for Farming Activities	4.0 1.0 3.0 25 arm Popul 3.0 0.8	4.0 0.8 3.2 20 lation :	967 4.0 0.8 3.2 19 803 3.0 0.8	4.0 1.0 3.0 24 3.0 1.1	25 4.0 1.1 2.9 27 1.2	24 Geonom 4.0 0.9 3.1 23 Geonom 3.0 1.0	15 sic Active 4.0 0.5 3.4 13 sic Active 3.0 0.7	4.0 0.6 3.4 15 e Popul 3.0 0.6	13 dation Ra 4.0 0.7 3.3 17 dation Ra 3.0 0.7	13 4.0 0.8 3.2 20 ste : 3.0 0.9	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1	23 4.0 1.4 2.6 35 3.0 1.5	25 A 4.0 1.5 2.5 38 A 3.0 1.6	20 griculu 4.0 1.2 2.7 31 griculu 3.0 1.3	18 4.0 1.1 2.9 28 ure Labo 3.0 1.2	2.9 26 2.0 1.0 2.9 26 26	15 4,0 0,9 3,0 23 3,0 1,0	11 54.1% 4.0 0.7 3.2 19 55.6% 3.0 0.7	4.0 0.8 3.2 19 3.0 0.8	4.0 1.1 2.9 27 3.0 1.2	28 Farm lar 4.0 1.7 2.3 41 Parm lar 3.0 1.8	32 nd area 4,0 2,0 51 and area 3,0 2,2	25 4.0 1.6 2.4 41 3.0 1.8	40 h 4.0 1.3 2.7 32 43 h 3.0 1,2	
B-16 Katunjs (F. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-12 Kutudhal [Foundation of the Common Com	4.0 1.0 3.0 25 arm Popul	4.0 0.8 3.2 20 lation :	967 4.0 0.8 3.2 19 803 3.0	4.0 1.0 3.0 24 3.0 1.1	25 I 4.0 1.1 2.9 27 I 3.0 1.2	24 Scenoin 4.0 0.9 3.1 23 Scenom 1.0	15 aic Active 4.0 0.5 3.4 13 aic Active 3.0 0.7 2.3	4.0 0.6 3.4 15 e Popul 3.0 0.6	13 Authors Ra 4.0 0.7 3.3 17 Blation Ra 3.0 0.7 2.3	13 4.0 0.8 3.2 20	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 1.8	23 4.0 1.4 2.6 35 3.0 1.5	25 A 4.0 1.5 2.5 38 A 3.0 1.6	20 4.0 4.2 2.7 31 gricultu 3.0 1.3	18 4.0 1.1 2.9 28 are Labo 3.0 1.2	2.9 26 2.0 2.9	4.0 0.9 3.0 23	54.1% 4.0 0,7 3.2 19 55.6% 3.0	4.0 0.8 3.2 19	4.0 i.1 2.9 27 3.0 1.2	28 Farm lat 4.0 1.7 2.3 41 Parm lat 3.0 1.8	32 nd area 4,0 2.0 2.0 51 nd area 3.0	25 4.9 1.6 2.4 41 3.0 1.8	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2	
B-16 Katunje ( P. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance ( A - B )	25 arm Popul 3.0 25 arm Popul 3.0 0.8 2.2 27	1ation : 4.0 0.8 3.2 20 1ation : 3.0 0.7 2.3 24	967 4.0 0.8 3.2 19 803 3.0 0.8 2.2 26	4.0 1.0 3.0 24 3.0 1.1	25 1.1 2.9 27 1.2 1.8 40	24 3.0 0.9 3.1 23 3.0 1.0 1.9 35	15 Active 4.0 0.5 3.4 13 Active 3.0 0.7 2.3 22	4.0 0.6 3.4 15 e Popul 3.0 0.6 2.3 22	13 dation Ra 4.0 0.7 3.3 17 dation Ra 3.0 0.7 2.3 24	13 4.0 0.8 3.2 20 ste : 3.0 0.9 2.1 29	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 1.8 38	23 4.0 1.4 2.6 35 3.0 1.5	25 A 4.0 1.5 2.5 38 A 3.0 1.6 1.4 54	20 griculu 4,0 1,2 2,7 31 griculu 3,0 1,3 1,7 45	18 40 1.1 2.9 28 are Labo 3.0 1.2 1.8 40	2.9 2.6 2.9 2.6 2.7 2.9 2.6 3.0 1.1	15 4.0 0.9 3.0 23 3.0 1.0 2.0 32	11 54.1% 4.0 0.7 3.2 19 55.6% 3.0 0.7 2.3 24	4.0 0.8 3.2 19 3.0 0.8	3.0 1.2 1.8 40	28 Farm lat 4.0 1.7 2.3 41 Parm lat 3.0 1.8 1.1 62	32 nd area 4,0 2.0 51 nd area 3.0 2.2 0,8 74	25 4.0 1.6 2.4 41 3.0 1.8 1.2 59	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2 1.8 39	19)
B-16 Katunja (F. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-12 Kutudhal (F2 A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-14 Mahader Khola (F2	25 arm Popul 3.0 2.5 arm Popul 3.0 0.8 2.2 27	4.0 0.8 3.2 20 lation : 3.0 0.7 2.3 24	967 4.0 0.8 3.2 19 803 3.0 0.8 2.2 26	4.0 1.0 3.0 24 3.0 1.1 1.9 38	25 I 4.9 I.1 2.9 27 I 2 3.0 1.2 1.8 40	24 2conom 4.0 0.9 3.1 23 2conom 1.0 1.9 35	15 4.0 0.5 3.4 13 tic Active 3.0 0.7 2.3 22	e Popul 4.0 0.6 3.4 1.5 e Popul 3.0 0.6 2.3 22	13 dation Ra 4.0 0.7 3.3 17 dation Ra 3.0 0.7 2.3 24	13 4.0 0.8 3.2 20 ste : 3.0 0.9 2.1 29	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 1.8 38	23 4.0 1.4 2.6 35 30 1.5 1.5 50	25 A 4.0 1.5 2.5 38 A 3.0 1.6 1.4 54	20 griculu 4.0 1.2 2.7 31 griculu 3.0 1.3 1.7 45	18 40 1.1 2.9 28 2re J.abo 3.0 1.2 1.8 40	2.9 2.6 2.0 1.0 2.9 2.6 2.7 2.0 1.1 1.9 3.6	15 4.0 0.9 3.0 23 3.0 1.0 2.0 32	54.1% 4.0 0.7 3.2 19 55.6% 3.0 0.7 2.3 24	4.0 0.8 3.2 19 3.0 0.8 2.2 27	19 4.0 1.1 2.9 27 3.0 1.2 1.8 40	28 Farm lat 4.0 1.7 2.3 41 Farm lat 3.0 1.8 1.1 62 Farm tar	32 nd area 4.0 2.0 51 and area 3.0 2.2 0.8 74	25 4.9 1.6 2.4 41 3.0 1.8 1.2 59	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2 1.8 39	10)
B-16 Katunja (F. A. Labour Force Available D. Total Labour Use for Farming Activities C. Balance [A-B] [D/A = %] B-12 Kutudhal (Fe A. Labour Force Available D. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-14 Mahader Khola (Fe A. Labour Force Available	25 arm Popul 3.0 0.8 2.2 27 arm Popul 15.6	4.0 0.8 3.2 20 lation : 3.0 0.7 2.3 24 lation : 5	967 4.0 0.8 3.2 19 803 3.0 0.8 2.2 26 2,585 15.6	4.0 1.0 3.0 24 3.0 1.1 1.9 38	25 I 4.0 1.1 2.9 27 E 3.0 1.2 1.8 40	24 4.0 0.9 3.1 22 4.0 1.0 1.9 3.5 4.0 1.9 15.6	15 Active 4.0 0.5 3.4 13 13 Active Active 3.0 0.7 2.3 22 15.6	e Popul 4.0 0.6 3.4 15 e Popul 3.0 0.6 2.3 22 e Popul	13 4.0 0.7 3.3 17 3.3 17 alation Ra 3.0 0.7 2.3 24 dation Ra 15.6	13 4.0 0.8 3.2 20 ste : 3.0 0.9 2.1 29	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 1.8 38	23 4.0 1.4 2.6 35 30 1.5 1.5 50	25 A 4.0 1.5 2.5 38 A 3.0 1.6 1.4 54	20 4.0 4.0 4.2 2.7 31 gricult 3.0 -1.3 1.7 45 gricult 15.6	18 40 4.0 1.1 2.9 28 are J.abe 3.0 1.2 1.8 40 are Labo	2.9 2.6 2.9 2.6 3.0 1.1 1.9 3.6	15 4.0 0.9 3.0 23 23 2.0 2.0 32 2.6 15.6	11 54.1% 4.0 0.7 3.2 19 55.6% 3.0 0.7 2.3 24 55.9% 15.6	4.0 0.8 3.2 19 3.0 0.8 2.2 27	19 4.0 1.1 2.9 27 3.0 1.2 1.8 40	28 Farm lar 4.0 1.7 2.3 41 Farm lar 3.0 1.8 1.1 62 Farm tar 15.6	32 and area 4.0 2.0 51 and area 3.0 2.2 0.8 74 and area 15.6	25 4.0 1.6 2.4 41 3.0 1.8 1.2 59	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2 1.8 39 112 h 15.6	10)
B-16 Katunja (F. A. Labour Force Available D. Total Labour Use for Farming Activities C. Balance [A-B] [D/A = %] B-12 Kutudhal (Fe A. Labour Force Available D. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-14 Mahader Khola (Fe A. Labour Force Available	25 arm Popul 3.0 2.5 arm Popul 3.0 0.8 2.2 27	4.0 0.8 3.2 20 lation : 3.0 0.7 2.3 24	967 4.0 0.8 3.2 19 803 3.0 0.8 2.2 26	4.0 1.0 3.0 24 3.0 1.1 1.9 38	25 I 4.9 I.1 2.9 27 I 2 3.0 1.2 1.8 40	24 2conom 4.0 0.9 3.1 23 2conom 1.0 1.9 35	15 4.0 0.5 3.4 13 tic Active 3.0 0.7 2.3 22	e Popul 4.0 0.6 3.4 1.5 e Popul 3.0 0.6 2.3 22	13 dation Ra 4.0 0.7 3.3 17 dation Ra 3.0 0.7 2.3 24	13 4.0 0.8 3.2 20 ste : 3.0 0.9 2.1 29	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 1.8 38	23 4.0 1.4 2.6 35 30 1.5 1.5 50	25 A 4.0 1.5 2.5 38 A 3.0 1.6 1.4 54	20 griculu 4.0 1.2 2.7 31 griculu 3.0 1.3 1.7 45	18 40 1.1 2.9 28 2re J.abo 3.0 1.2 1.8 40	2.9 2.6 2.0 1.0 2.9 2.6 2.7 2.0 1.1 1.9 3.6	15 4.0 0.9 3.0 23 3.0 1.0 2.0 32	54.1% 4.0 0.7 3.2 19 55.6% 3.0 0.7 2.3 24	4.0 0.8 3.2 19 3.0 0.8 2.2 27	19 4.0 1.1 2.9 27 3.0 1.2 1.8 40	28 Farm lat 4.0 1.7 2.3 41 Farm lat 3.0 1.8 1.1 62 Farm tar	32 nd area 4.0 2.0 51 and area 3.0 2.2 0.8 74	25 4.9 1.6 2.4 41 3.0 1.8 1.2 59	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2 1.8 39	10)
B-16 Katunja (F. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-12 Kutudhal (Fe A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-14 Mahader Khola (Fe A. Labour Force Available B. Total Labour Use for Farming Activities	25 arm Popul 3.0 0.8 2.2 27 arm Popul 15.6	4.0 0.8 3.2 20 lation : 3.0 0.7 2.3 24 lation : 5	967 4.0 0.8 3.2 19 803 3.0 0.8 2.2 26 2,585 15.6	4.0 1.0 3.0 24 3.0 1.1 1.9 38	25 I 4.0 1.1 2.9 27 E 3.0 1.2 1.8 40	24 4.0 0.9 3.1 22 4.0 1.0 1.9 3.5 4.0 1.9 15.6	15 Active 4.0 0.5 3.4 13 13 Active Active 3.0 0.7 2.3 22 15.6	e Popul 4.0 0.6 3.4 15 e Popul 3.0 0.6 2.3 22 e Popul 15.6	13 4.0 0.7 3.3 17 slation Ra 3.0 0.7 2.3 24 slation Ra 15.6 1.9	13 4.0 0.8 3.2 20 ste : 3.0 0.9 2.1 29	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 1.8 38 75.4% 15.6 3.0	23 4.0 1.4 2.6 35 30 1.5 1.5 50	25 A 4.0 1.5 2.5 38 A 3.0 1.6 1.4 54	20 4.0 4.2 2.7 31 gricultu 3.0 1.3 1.7 45 gricultu 3.5 1.7	18 40 4.0 1.1 2.9 28 40 1.2 1.8 40 40 15.6 3.1	2.9 2.6 2.9 2.6 3.0 1.1 1.9 3.6	15 4.0 0.9 3.0 23 23 2.0 2.0 32 2.6 15.6	11 54.1% 4.0 0.7 3.2 19 55.6% 3.0 0.7 2.3 24 55.9% 15.6	4.0 0.8 3.2 19 3.0 0.8 2.2 27	19 4.0 1.1 2.9 27 3.0 1.2 1.8 40	28 Farm lar 4.0 1.7 2.3 41 Farm lar 3.0 1.8 1.1 62 Farm tar 15.6	32 and area 4.0 2.0 51 and area 3.0 2.2 0.8 74 and area 15.6	25 4.0 1.6 2.4 4t 3.0 1.8 1.2 59	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2 1.8 39 112 h 15.6	18)
B-16 Katunje (F. A. Labour Porce Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-12 Kutudhal (Fe. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-14 Mahader Khola (Fe. A. Labour Force Available B. Total Labour Use for Farming Activities	25 ann Popul 3.0 0.8 2.2 27 ann Popul 15.6 2.1	1ation : 4.0 0.8 3.2 20 1ation : 3.0 0.7 2.3 24 1ation : 3	12 967 4.0 0.8 3.2 19 803 3.0 0.8 2.2 2.6 2.585 15.6 2.0	4.0 1.0 3.0 24 3.0 1.1 1.9 38	25 I 4.0 1.1 2.9 27 I 3.0 1.2 1.8 40 E 15.6 3,1	24 4.0 0.9 3.1 22 3.0 1.0 1.9 35 iconom 15.6 2.7	15 Active 4.0 0.5 3.4 13 He Active 3.0 0.7 2.3 22 His Active 15.6 1.7	e Popul 4.0 0.6 3.4 15 e Popul 3.0 0.6 2.3 22 e Popul 15.6	13 4.0 0.7 3.3 17 slation Ra 3.0 0.7 2.3 24 slation Ra 15.6 1.9	13 4.0 0.8 3.2 20 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 1.8 38 75.4% 15.6 3.0	23 4.0 1.4 2.6 35 3.0 1.5 1.5 50	25 A 4.0 1.5 2.5 38 A 3.0 1.6 1.4 54 A 15.6 4.2	20 4.0 4.2 2.7 31 gricultu 3.0 1.3 1.7 45 gricultu 3.5 1.7	18 40 4.0 1.1 2.9 28 40 1.2 1.8 40 40 15.6 3.1	2.9 2.6 2.0 1.0 2.9 2.6 3.0 1.1 1.9 3.6 sur Rate 3.0 1.1	15 4.0 0.9 3.0 23 : 4 3.0 1.0 2.0 32 : 6 15.6 2.5	54.1% 4.0 0.7 3.2 19 55.6% 3.0 0.7 2.3 24 55.9% 15.6 1.8	4.0 0.8 3.2 19 3.0 0.8 2.2 27	19 4.0 1.1 2.9 27 3.0 1.2 1.8 40	28 Farm lar 4.0 1.7 2.3 41 Parm lar 3.0 1.8 1.1 62 Farm tar 15.6 4.8	32 4.0 2.0 2.0 51 and area 3.0 2.2 0.8 74 and area 15.6 5.8	25 4.0 1.6 2.4 4t 3.0 1.8 1.2 59	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2 1.8 39 112 h 15.6 3.0	18)
B-16 Kalunje (P. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-12 Katudhal (P. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-14 Mahader Khola (P. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %]	25 arm Popul 3.0 0.8 2.2 27 arm Popul 15.6 2.1 13.5	4.0 0.8 3.2 20 lation : 3.0 0.7 2.3 24 lation : 3 15.6 1.8	967 4.0 0.8 3.2 19 803 3.0 0.8 2.2 26 2,585 15.6 2.0	4.0 1.0 3.0 24 2.0 1.1 1.9 38	25 I 4.0 1.1 2.9 27 E 3.0 1.2 1.8 40 E 5.6 3.1 12.5	24 keenom 4.0 0.9 3.1 23 3.0 1.0 1.9 35 15.6 2.7 12.9	15 Active 4.0 0.5 3.4 13 site Active 3.0 0.7 2.3 22 site Active 15.6 1.7 13.9	4.9 0.6 3.4 15 6 Popul 3.0 0.6 2.3 22 15.6 1.7	13 dation Ra 4.0 0.7 3.3 17 dation Ra 3.0 0.7 2.3 24 dation Ra 15.6 1.9	13 4.0 0.8 3.2 20 1.0 0.9 2.1 29 2.1 15.6 2.2 13.4	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 1.8 38 75.4% 15.6 3.0	23 4.0 1.4 2.6 35 3.0 1.5 1.5 50 15.6 3.9	25 A 4.0 1.5 2.5 38 A 3.0 1.6 1.4 54 A 15.6 4.2 11.4	20 agriculu 4.0 1.2 2.7 31 griculu 3.0 1.3 1.7 45 griculu 15.6 3.5 12.2	18 40 1.1 2.9 28 20 1.2 1.8 40 15.6 3.1 12.6	2.9 26 3.0 1.1 1.9 36 1.56 2.8	15 4.0 0.9 3.0 23 23 2.0 1.0 2.0 33 2.5 15.6 2.5 13.1	11 54.1% 4.0 0.7 3.2 19 15.6% 3.0 0.7 2.3 2.4 15.6 15.	4.0 0.8 3.2 19 3.0 0.8 2.2 27	19 4.0 1.1 2.9 27 3.0 1.2 1.8 40 15.6 3.1	28 Farm lar 4.0 1.7 2.3 41 Parm lar 3.0 1.8 1.1 62 Farm tar 15.6 4.8 10.8	32 nd area 4.0 2.0 51 51 one area 3.0 2.2 one area 3.0 2.2 one area 5.5 one area 3.0 one area 5.0 one area 5.0 one area one a	25 4.0 1.6 2.4 41 3.0 1.8 1.2 59	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2 1.8 39 112 h 15.6 3.0 12.6	18)
B-16 Katunje (F. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-12 Kutudhal (F. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-14 Mahader Khola (F. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %]	25 27 27 27 27 27 27 27 27 27 27 27 27 27	lation: 4.0 0.8 3.2 20 lation: 3.0 0.7 2.3 24 lation: 15.6 1.8 13.8	12 967 4.0 0.8 3.2 19 803 3.0 0.8 2.2 2.6 2.585 15.6 2.0 13.6 13.	4.0 1.0 3.0 2.4 3.0 1.1 1.9 3.8 15.6 2.9	25 I 4.9 1.1 2.9 27 I 1.8 40 E 1.5.6 3.1 12.5 20	24 240 4.0 0.9 3.1 22 23 20 1.0 1.9 35 2.7 12.9 17	15 Active Active 4.0 0.5 3.4 13 22 23 22 15.6 1.7 13.9 11	4.0 0.6 3.4 15 6 Popul 3.0 0.6 2.3 22 2 Popul 15.6 1.7 13.9	13 4.0 0.7 3.3 17 alation Ra 3.0 0.7 2.3 24 alation Ra 15.6 1.9	13 to : 4.0 0.8 3.2 20 20 2.1 29 2.1 15.6 2.2 13.4 14	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 18.8 38 75.4% 15.6 3.0	23 4.0 1.4 2.6 35 3.0 1.5 1.5 50 11.8 25	25 A 4.0 1.5 2.5 38 A 3.0 1.6 1.4 54 A 15.6 4.2 11.4 27	20 agricultud 4.0 4.2 2.7 31 agricultud 3.0 1.3 1.7 45 agricultud 5.6 3.5 12.2 22	18 40 1.1 2.9 28 are Labe 3.0 1.2 1.8 40 15.6 3.1 12.6 20	2.9 2.6 3.0 1.1 1.9 3.6 1.1 1.9 3.6 12.8 18.1	15 4.0 0.9 3.0 23 2.2 3.0 1.0 2.0 32 2.5 13.1 16	11 4.0 0.7 3.2 19 15.6% 3.0 0.7 2.3 24 15.6 15.6 18 13.8 12	12 4.0 0.8 3.2 19 3.0 0.8 2.2 27 15.6 2.1 13.6 13	19 4.0 1.1 2.9 27 3.0 1.2 1.8 40 15.6 3.1 12.5 20	28 Farm lat 4.0 1.7 2.3 41 Parm lat 3.0 1.8 1.1 62 Form lat 15.6 4.8 10.3 31	32 4,0 2,0 2,0 51 3,0 2,2 0,8 74 15,6 5,8 9,9 37	25 4.0 1.6 2.4 41 3.0 1.8 1.2 59 :: 15.6 4.6 11.0 29	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2 1.8 39 112 h 15.6 19	118)
B-16 Katunje (F. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-12 Kutudhal (F2 A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-14 Mahader Khola (F2 A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] [B/A = %] [B/A = %]	27.4	lation: 4.0 0.8 3.2 20 lation: 3.0 0.7 2.3 24 lation: 15.6 1.8 13.8 12	12 967 4.0 0.8 3.2 19 803 3.0 0.8 2.2 2.6 2.0 13.6 13.2 27.4	4.0 1.0 3.0 24 3.0 1.1 1.9 38 15.6 2.9 12.7 19	25 I 4.0 1.1 2.9 27 I 3.0 1.2 1.8 40 1.2 1.8 40 1.1 1.3 1.2 1.3 1.2 1.3 1.3 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	24 240 4.0 0.9 3.1 22 23 20 20 1.0 1.9 35 27.4	15 Active 4.0 0.5 3.4 13 13 15 16 Active 3.0 0.7 2.3 22 15.6 1.7 13.9 11 27.4	4.0 0.6 3.4 15 a Popul 3.0 0.6 2.3 22 a Popul 15.6 1.7 13.9 11	13 4.0 4.0 0.7 3.3 17 lastion Ra 3.0 0.7 2.3 24 lation Ra 15.6 1.9 13.7 12	13 4.0 0.8 3.2 20 0.9 2.1 29 2.1 29 15.6 2.2 13.4 14	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 1.8 38 75.4% 15.6 3.0 12.7 19	23 4.0 1.4 2.6 35 3.0 1.5 1.5 50 11.8 25	25 A 4.0 1.5 2.5 38 A 3.0 1.6 1.4 54 A 15.6 4.2 11.4 27	20 4.0 4.0 1.2 2.7 31 3.0 1.3 1.7 45 griculta 15.6 3.5 2.2 22	18 40 1.1 2.9 28 3.0 1.2 1.8 40 1.5 1.6 20 27.4	2.9 26 3.0 1.1 1.9 36 12.8 18.1 27.4	15 4.0 0.9 3.0 23 23 2.2 4 3.0 1.0 2.0 33 2.5 15.6 2.5 13.1 16	11 4.0 0.7 3.2 19 15.6% 3.0 0.7 2.3 24 15.6% 15.6 18 12 27.4	4.0 0.8 3.2 19 3.0 0.8 2.2 27 15.6 2.1 13.6 13	19 4.0 1.1 2.9 27 3.0 1.2 1.8 40 15.6 3.1 12.5 20	28 Farm lat 4.0 1.7 2.3 41 Varm lat 3.0 1.1 62 Farm lat 15.6 4.8 10.3 31	32 4.0 2.0 2.0 51 3.0 2.2 0.8 74 15.6 5.8 9.9 37	25 4.0 1.6 2.4 41 3.0 1.8 1.2 59 : : : : : : : : : : : : : : : : : :	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2 1.8 39 112 h 15.6 19	12)
B-16 Katunje (F. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-12 Kutudhal (F. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-14 Mahader Khola (F. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] [B/A = %]  [B/A = %]  [B/A = %]  [A-Bour Force Available A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %]	Arm Popul 3.0 2.5  arm Popul 3.0 2.2 27  arm Popul 15.6 2.1 13.5 14 27.4 4.6	lation: 4.0 0.8 3.2 29 lation: 3.0 0.7 2.3 24 lation: 15.6 1.8 13.8 12	12 967 4.0 0.8 3.2 19 803 3.0 0.8 2.2 2.6 2.585 15.6 2.0 13.6 13.6	4.0 1.0 3.0 24 3.0 1.1 1.9 38 15.6 2.9 12.7 19	25 1 4.9 1.1 2.9 27 1.8 40 1.2 1.8 40 1.1 1.5.6 3.1 12.5 20 27.4 6.7	24 240 4.0 0.9 3.1 22 23 24 25 25 27 27 27 4.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	15 Active 4.0 0.5 3.4 13 21c Active 3.0 0.7 2.3 22 15.6 1.7 13.9 11 27.4 3.7	e Popul 4.9 0.6 3.4 15 e Popul 3.0 0.6 2.3 22 e Popul 15.6 1.7 13.9 11	13 4.0 dation Ra 4.0 0.7 3.3 17 dation Ra 3.0 0.7 2.3 24 dation Ra 15.6 1.9 13.7 12	13 4.0 0.8 3.2 20 0.9 2.1 29 2.1 29 15.6 2.2 13.4 14	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 18.8 38 75.4% 15.6 3.0	23 4.0 1.4 2.6 35 3.0 1.5 1.5 50 11.8 25	25 A 4.0 1.5 2.5 38 A 3.0 1.6 1.4 54 A 15.6 4.2 11.4 27	20 agricultud 4.0 4.2 2.7 31 agricultud 3.0 1.3 1.7 45 agricultud 5.6 3.5 12.2 22	18 40 1.1 2.9 28 are Labe 3.0 1.2 1.8 40 15.6 3.1 12.6 20	2.9 2.6 3.0 1.1 1.9 3.6 1.1 1.9 3.6 12.8 18.1	15 4.0 0.9 3.0 23 2.2 3.0 1.0 2.0 32 2.5 13.1 16	11 4.0 0.7 3.2 19 15.6% 3.0 0.7 2.3 24 15.6 15.6 18 13.8 12	12 4.0 0.8 3.2 19 3.0 0.8 2.2 27 15.6 2.1 13.6 13	19 4.0 1.1 2.9 27 3.0 1.2 1.8 40 15.6 3.1 12.5 20	28 Farm lat 4.0 1.7 2.3 41 Parm lat 3.0 1.1 62 Farm lat 15.6 4.8 10.3 31	32 4,0 2,0 2,0 51 3,0 2,2 0,8 74 15,6 5,8 9,9 37	25 4.0 1.6 2.4 41 3.0 1.8 1.2 59 :: 15.6 4.6 11.0 29	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2 1.8 39 112 h 15.6 19	1a)
B-16 Katunje (F. A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-12 Kutudhal (F2 A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] B-14 Mahader Khola (F2 A. Labour Force Available B. Total Labour Use for Farming Activities C. Balance [A-B] [B/A = %] [B/A = %] [B/A = %]	Arm Popul 3.0 2.5  arm Popul 3.0 2.2 27  arm Popul 15.6 2.1 13.5 14 27.4 4.6	lation: 4.0 0.8 3.2 20 lation: 3.0 0.7 2.3 24 lation: 15.6 1.8 13.8 12	12 967 4.0 0.8 3.2 19 803 3.0 0.8 2.2 2.6 2.0 13.6 13.2 27.4	4.0 1.0 3.0 24 3.0 1.1 1.9 38 15.6 2.9 12.7 19	25 1 4.9 1.1 2.9 27 1.8 40 1.2 1.8 40 1.1 1.5.6 3.1 12.5 20 27.4 6.7	24 240 4.0 0.9 3.1 22 23 20 20 1.0 1.9 35 27.4	15 Active 4.0 0.5 3.4 13 21c Active 3.0 0.7 2.3 22 15.6 1.7 13.9 11 27.4 3.7	4.0 0.6 3.4 15 a Popul 3.0 0.6 2.3 22 a Popul 15.6 1.7 13.9 11	13 4.0 dation Ra 4.0 0.7 3.3 17 dation Ra 3.0 0.7 2.3 24 dation Ra 15.6 1.9 13.7 12	13 4.0 0.8 3.2 20 0.9 2.1 29 2.1 29 15.6 2.2 13.4 14	17 62.5% 4.0 1.1 2.9 27 67.0% 3.0 1.1 1.8 38 75.4% 15.6 3.0 12.7 19	23 4.0 1.4 2.6 35 3.0 1.5 1.5 50 11.8 25	25 A 4.0 1.5 2.5 38 A 3.0 1.6 1.4 54 A 15.6 4.2 11.4 27	20 4.0 4.0 1.2 2.7 31 3.0 1.3 1.7 45 griculta 15.6 3.5 2.2 22	18 40 1.1 2.9 28 are Labe 3.0 1.2 1.8 40 15.6 3.1 12.6 20 27.4 6.2	2.9 26 3.0 1.1 1.9 36 12.8 18.1 27.4	15 4.0 0.9 3.0 23 23 2.2 4 3.0 1.0 2.0 33 2.5 15.6 2.5 13.1 16	11 4.0 0.7 3.2 19 15.6% 3.0 0.7 2.3 24 15.6% 15.6 18 12 27.4	4.0 0.8 3.2 19 3.0 0.8 2.2 27 15.6 2.1 13.6 13	19 4.0 1.1 2.9 27 3.0 1.2 1.8 40 15.6 3.1 12.5 20	28 Farm Ja 4.0 1.7 2.3 41 Parm Ia 3.0 1.8 1.1 62 Farm Ia 15.6 4.8 10.8 31	32 4.0 2.0 2.0 51 3.0 2.2 0.8 74 15.6 5.8 9.9 37	25 4.0 1.6 2.4 41 3.0 1.8 1.2 59 :: 15.6 4.6 11.0 29	40 h 4.0 1.3 2.7 32 43 h 3.0 1.2 1.8 39 112 h 15.6 19	19)

6 - 20

Table 6 - 2 Summary of Future Labour Balance in Each Scheme (2/2)

																					( U.	H: 1,0	D man-		
	fa	n	l'el	b	М	AΓ	٨,	×	Ma	ıy	Ju	n	Ju	4	λu	g	Se	p	Oc	1	No	٧	. De	×	Total
	Early	l.ala	Early	Late	Early	Lata	Early	Late	Early	Late	Early	Late	Early	l.ato	Early	1,ate	Party	Late	liarly	Late	Early	Late	Early	LAG	
Laligur District						-		D	Lain D		75.0%			Agricul	turs I ab	our Ra	to:	48,5%			Farm le	uni area	٠:	246 ha	1)
WINTE HOUSE	ın Popu						nic Acti	-			30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.A	30.4	30.4	728.8
A. Labour Force Available	30.4		30.4	30.4	30.4	30.4	30,4	30.4	30.4 4.9	30.4 5.0	6.5	8.5	9.2	7.6	6.7	6.2	5.5	4.1	4.5	6.9	10.5	11.9	9.5	7.2	161.8
B. Total Labour Use for Parming Activities	5.1	4.2	4.6	6.8	9.3	9.0	5.6	5.1												23.5	19.8	18.4	20.9	23.1	564.1
C. Balanco [ A - D ]	25.3	26.1	25.8	23.5	21.0		24.7		25.A	25.4	23.8		21.1		23.6	24.2	24.9	26.3	25.8 15	23.3	35	39	31	24	23
( BV A ≈ % )	17	14	15	22	31	30	19	17	16	17	21	28	30	25	22	20		1.5	13		30				
AL-13 Lubhu ( Fe	en Popu	lation:	3,448			Econor	nie Acti	va Popu	lation R	iato :	67.2%			Agricul	turo Lab	our Ra	(o :	48.7%			Farm t			130 h	-
A. Labour Force Available	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	329.5
B. Total Labour Use for Parining Activities	3.2	2.6	2.5	3.2	3.5	2.9	1.7	2.0	2.2	2.6	3.4	4.5	4.9	4.0	3.6	3.4	3.0	2.4	2.5	3.4	5.4	6.6	5.3	4.1	62.9
C. Balance [ A · B ]	10.5	11.1	11.2	10.6	(0,2	10.8	12.0	11.8	11.5	11.1	10.3	9.2	8.9	9.7	10.1	10.3	10.7	11.3	11.3	10.3	8.4	7.2	8.4	9.6	246.6
[ D/A = % ]	23	19	18	23	26	21	13	14	16	19	25	33	36	29	26	25	22	18	18	2.5	39	48	38	30	25
	ити Рора	ulation	. 16 510			Denna	nje Acti	va Ponu	lation R	late :	70.3%			Agricul	tare Lat	our Ra	to :	36.6%			Farm b	und area		497 h	<b>1</b> )
AL-19 Thike Bhairaw-1 (Fa	ина гора 36.1		36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	35.1	35.1	36.1		36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	866.3
B. Total Labour Use for Parming Activities	10.3	8.5			18.8	18.2	11.4	10.4	10.0	10.1	13.2	17.1	18.6	15.4	13.6	12.5	11.1	8.2	9.1	14.0	21.3	24.1	19.2	14.6	3.32.9
		27.6	26.8	22.3	17.3	17.9	24.7	25.7	26.1	26.0	22.9	18.9	17.5	20.7	22.5	23.6	25.0	27,9	26.9	22.1	14.8	12.0	16.9	21.5	533.3
C. Balance [ A - B )  [ R/A = % ]	25.8 29	24	26	38	52		31	29	28	28	36	48	52	43	38	35	31	23	25	39	59	67	53	41	38
[144-20]									-																->
AL-20 Thika Bhairaw-II (P.	em Popu	alation	: 3,655			Econor	nie Acti							•	iuro Lat			40.6%		120	13.0	and area	13.0	88 ha 13.0	4) 312.8
A, Labour Force Available	13.0	13.0	13.0	13.0	13.0		13.0	13.0	13.0	13.0	13.0	13.0	13.0		13.0	13.0	13.0	13.0	13.0	13.0	3.6	4.3	3.5	3.0	62.2
B. Total Labout Use for Farming Activities	2.3	2.0	1.3	2.8	3.3	3.2	2.2	2.2	1.9	1.8	2.3	3.0	3.3	2.7	2.5	2.3	2.0	1.6		2.3					
C. Halanco [ A - B ]	10.7	11.0	10.7	10.2	9.7	9.9	10.9	10,9	11.1	11.2	10.7	10.0	9.7		10.6	10.7	11.0	11.4	11.4	10.7	9.4	8.8	9.6	(0.1 23	2.50.7 20
( B/A = % )	18	15	18	22	25	24	17	17	15	14	18	23	25	21	19	18	16	12	13	18	28	33	27		
Sub-Total																						01.5	00.0	03.4	2237.5
A. Labour Force Available	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2		93,2		93.2		93.2	-	93.2	93.2	93.2	93.2	93.2	93.2	37.4	93.2 28.9	642.8
B. Total Labour Use for Parming Activities	21.0	17.4	18.7	26.6	35.0	33,2	20.9	19.6	19.1	19.6	25.5	33.2	36.0	29.8	26.5	24.4	21.7	16.3	17.6	26.7	40.8	46.9			
C. Balance [ A - D ]	72.3	75.8	74.5	66.6	58.2	60.0	72.3	73.6	74.2	73.7	67.8	60.1	57.2		66.8	68.8	71.5	76.9	75.4	65.6	52.4	46 <i>A</i>	55.8		1594.6 29
[B/A = %]	22	19	20	29	38	36	22	21	20	21	27	.16	39	32	28	26	23	17	19	29	44		40	31	
Total of 13 Project area																									
A. Labour Force Available	168.1	168.1	168.1	168.L	168.1	168.1	168.	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.1	168.L	4034.1
B. Total Labour Use for Farming Activities		33.7	37.1	50.0	61.9	58.4	37.9	36.7	35,0	35.2	45.8	59.6	64.8	53.5	47.7	44.2	39.3	30.2	32.3	47.2	72.7	R1.5	67.9	53.7	1169.3
C. Balance [ A - B ]	128.0	134.3	131.0	118.1	106,2	109.7	130.1	131.4	133.1	132.9	122.3	108.5	103.3	114.6	120,4	123.9	128.7	137.9	135.8	120.9	95.4	83.6	100.2		2864.8
[B/A = %]	24		22		37	35	23	22	21	21	27	35	39	32	28	26	2.3	18	19	28	43	50	40	32	29

Source : Farm Survey , JICA Study Team , 1994

Table 6 - 3 Planted Area and Cropping Intensity with Project Condition

	1	let Farm l	and Area	(ha)					Planted	Area by C	rops (ha)				
No. of Scheme / Name	Total	In	tensive	Re	niote	Paddy	Potatoes	Early	Late	Legunies	Summer	Winter	Green	Bulb	Total Area
	Area	I	11 111	Ī	11		·	Potatoes	Potatoes	<del>-</del>	Vege.	Vege.	Leaf Veg.	crop	
Kathmandu District															
AK - 04 Biswambhara	92	46		46		46	23	12	12	12	46	35	23	12	219
AK - 05 Boshan	122	37		85		61	31	9	9	21	61	40	18	21	271
AK - 07 Dakshinkali	67	34		34		34	17	8	8	8	34	25	17	8	159
AK - 14 Indrayani	101	51		51		51	25	13	13	13	51	38	25	13	240
AK - 25 Shali Nadi	157	110		47		79	39	20	20	20	79	67	55	12	389
Sub-total	539	277		263		270	135	61	61	73	270	204	138	66	1,278
Bhaktapur District															
AB - 02 Bido!	32	10		22		16	,8	2	2	6	16	10	5	6	71
AB - 10 Katunje	40		20		20	20	5	10	0	5	20	15	5	5	85
AB-12 Kutudhal	43		13		30	22	3	11	0	8	22	14	3	8	89
AB - 14 Mahadev Khola	112		34		78	56	8	28	. 0	20	56	36	8	20	232
Sub-total	227	10	67	22	129	114	25	51	2	38	114	76	21	38	478
Lalitpur District															
AL-10 Kotkhu	246	74		172		123	62	18	18	43	123	80	37	43	547
AL-13 Lubhu	130		65		65	65	16	33	0	16	65	49	16	16	276
AL - 19 Thika Bhairaw-(I)	497	149		348		249	124	37	37	87	249	162	75	87	1,106
AL - 20 Thika Bhairaw-(II)	88	44		44		44	22	11	11	11	44	33	22	11	209
Sub-total	961	267	65	564	65	481	224	99	67	157	481	323	150	157	2,138
Total	1,727	553	0 132	849	194	864	383	212	130	268	864	603	309	261	3,894

	Rate	e of Each	Pattem (%)	Cropping Intensity by Crops (%)									Total
	In	tensive	Remote	Paddy	Potatoes	Early	Late	Legumes	Summer	Winter Vege.	Green Leaf Veg.	Bulb	Local
	I	111 111	I II			Potatoes	Potatoes		Vege,			crop	
Kathmanchi District													
AK - 04 Biswambhara	50.0		50.0	50.0	25.0	12.5	12.5	12.5	50.0	37.5	25.0	12,5	237.5
AK - 05 Boshan	30.0		70.0	50.0	25.0	7.5	7.5	17.5	50.0	32.5	15.0	17.5	222.5
AK - 07 Dakshinkali	50.0		50.0	50.0	25.0	12.5	12.5	12.5	50.0	37.5	25.0	12.5	237.5
AK - 14 Indrayani	50.0		50.0	50.0	25.0	12.5	12.5	12.5	50,0	37.5	25.0	12.5	237.5
AK - 25 Shali Nadi	70.0		30.0	50.0	25.0	12,5	12.5	12.5	50.0	42.5	35.0	7.5	247.5
Sub-Average	51.3		48.7	50.0	25.0	11.4	11.4	13.6	50.0	37.8	25.6	12.2	237,0
Bhaktopur District													
AB - 02 Bidol	30.0		70.0	50.0	25.0	7.5	7.5	17.5	50.0	32.5	15.0	17.5	222,5
AB - 10 Katunje		50.0	50.0	50.0	12.5	25.0	0.0	12.5	50.0	37.5	12,5	12.5	212.5
AB - 12 Kutudhal		30.0	70.0	50.0	7.5	25.0	0.0	17.5	50.0	32.5	7.5	17.5	207.5
AB - 14 Mahadev Khola		30.0	70.0	50.0	7.5	25.0	0.0	17.5	50.0	32.5	7,5	17.5	207.5
Sub-Average	4.2	29.3	9.9 56.6	50.0	10.8	22.5	1.1	16.6	50.0	33.4	9.4	16.6	210.5
Lalitpur District									1				
AL - 10 Kokhu	30.0	· .	70.0	50.0	25.0	7.5	7.5	17.5	50,0	32.5	15.0	17.5	222.5
Al 13 Lubhu		50.0		50.0	12.5	25.0	0.0	12.5	50.0	37.5	12.5	12.5	212.5
AL - 19 Thika Bhairaw-(I)	30,0		70.0	50.0	25.0	7.5	7.5	17.5	50.0	32.5	15.0	17.5	222.5
AL - 20 Thika Bhairaw-(II)	50.0		50.0	50.0	25.0	12.5	12.5	12,5	50.0	37.5	25.0	17.5	237,5
Sub-Average	27.8	6.8	58.7 6.8	50.0	23.3	10.3	6.9	16.4	50.0	33.6	15.6	16.4	222.5
Average	32.0	0.0 7.6	49.2 11.2	50.0	22.2	12.3	7.6	1.5.5	50.0	34.9	17.9	15,1	225.5

Planted Area under Without and With Project Condition Table 6-4

<without con<="" project="" th=""><th>dition&gt;</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>(Unit : ha)</th></without>	dition>															(Unit : ha)
Crans	Farm Land	Paddy	Wheat	Maize	Mustard	Polato	Early Polato	Late Petato	Broad Bean	Garden Pea	Summer Vege.	Winter Vege.	Green Leaf Veg.	Bulb crop	Total Area	Cropping Intensity (%)
Kalhmandu Districi															150	196.0
AK - 04 Biswambhara	92	83	68	9	9	11	0	0	0	0					180 239	196.0
AK - 05 Boshan	122	122	71	0	34	12	0	0	0	0					132	197.0
AK - 07 Dakshinkali	67	67	15	0	23	2	0	0	0	25					200	198.0
AK - 14 Indrayani	101	99	79	2	2	18	0	0	0	0					325	207.0
AK • 25 Shali Nadi	157	157	79	0	8	38	22	22	0	U						
Suh-total	539	528	311	11	77	81	22	22	0	25					1,076	199.7
Bhaktapur District										_					41	190.0
Aft - 02 Bidol	32	32	26	0	0	3	0	0	0	0					61	195.0
AD - 10 Katunje	40	38	30	2	2	6	0	0	0	0					78 84	195.0
AB - 12 Kutudha!	43	43	34	0	ı	6	0	0	0	0						
Aft - 14 Mahadev Khola	112	110	90	2	6	6	0	0	3	0					216	193.0
Sub-total	227	223	179	4	9	20	0	0	3	0					439	193.3
alitpur District																188.0
Al. 10 Kotkhu	246	226	162	15	30	30	0	0	0	0					462	
Al 13 Lubhu	130	121	85	7	7	7	0	0	20	0					244	188.0
AL - 19 Thika Bhairaw-(	l) 497	432	373	55	40	45	0	0	15	0					959 1 <b>67</b>	193.0
A1 20 Thika Bhairaw-(	lt; 88	86	75	0		3	0	0	2	0					16/	190.0
Sub-total	961	866	694	76	78	83	0	0	36	0					1,833	190.8
Total	1,727	1,616	1.184	91	163	185	22	22	40	25					3,349	193.9

-,,-	 	
Crops		

Crops	Farm Land	Paddy	Wheat	Maize	Mustard	Potato	Early Poiato	Lais Petato	Broad Bean	Garden Pea	Summer Vege.	Winter Vege.	Circen Leaf Veg.	Buib crop	Total Area	Cropping Intensity (%)
Kathmandu District																449.5
AK - 04 Biswambhara	92	46				23	12	12	12		46	35		12	219	237.5
AK - 05 Boshan	122	61				31	9	9	21		61	40		21	271 159	222.5 237.5
AK - 07 Dakshinkali	67	34				17	8	8	8		34	25		8	240	237.5
AK - 14 Indrayani	10t	51				25	13	13	13		51	38		13	389	2.57.5 2.47.5
AK - 25 Shali Nadi	157	79				39	20	20	20		79	67	5.5	12	389	241.3
Sub-total	539	270				135	61	6l	73_		270	204	138	66	1,278	237,0
											ν.					
Bhaktapur District						ø	2	1	6		16	10	5	6	71	222.5
AB - 02 Bidol	32	16				9	10	4			20	15		5	85	212.5
AB - 10 Katunje	40	20				3	10				20	14		8	89	207.5
AB - 12 Kutudhal	43	22					11	v	20		56	36		20	232	207.5
AB - 14 Mahadey Khola	112	56					28	<u> </u>	. 40		,10					
Sub-total	227	114				25	51	2	38		114	76	21	38	478	210.5
Lalitpur District																
AL - 10 Kotkhu	246	123				62	18	18	43		123	80		43	547	222.5
AL - 13 Lubhu	130	65				16	33	0	16		65	49		16	276	212.5
AL 19 Thika Bhairaw (		249				124	37	37	87		249	162		87	1,106	222.5
AL - 20 Thika Bhairaw-(		44				22	11	- 11	- 11		44	33	22	11	209	237.5
Sub-total	961	. 481				224	99	67	157		481	323	150	157	2,138	222.5
Total	1,727	864				383	212	130	268		864	603	309	261	3,894	225.5

Crops	Paddy	Wheat	Maize	Mustard	Potato	Party Potato	fate Poteto	Broad Bean	Garden Pen	Summer Vege.	Winter Vege.	Green Leaf Veg.	Bulb	Total Area	Incremental Intensity (%)
Sathmandu District															
AK - 01 Biswambhara	-37	-68	-9		. 12	12	12	12	. 0	46	35	23	12	. 38	41.5
AK - 05 Boshan	-61		. 0	-34	18	9	9	21	. 0	61	. 40	18	- 21	32	26.5
AK - 07 Dakshinkali	3			-23	15	8	. 8	. 8	-25	34	25	17	8	27	40.5
AK - 14 Indrayani	-18		.7	-2	7	13	13	13	0	51	38	25	13	40	39.5
AK - 25 Shali Nadi	79		Ď	-8	2_	-2	-2	20	0	79	67	5.5	12	64	40.5
Sub-total	-258	-311	-11	-77	54	39	39	73	-25	270	204	138	66	201	37.3
H da asiata												*		*	
haktapur District AB - 02 Bidol	-16	-26	. n	· . · a	5	. ,			. 0	16	10	5 .	. 6	10	32.5
AII - 10 Katunje	-18		-2	- 2	-1	10	ñ	š	ñ	20	- 15	5	5	7	17.5
	- 10				-2	11	ň	Ř	ñ	22	14	3	8	5	12.5
AB - 12 Kutudhal AB - 14 Mahadev Khola	51		-2	- 6	3	28	ő	16	. i ŏ	56	36	8_	20	16	14.5
	-109			.0	4	51	1	34	. 0	114	76	21	38	39	17.2
Sub-total	-10.	: -1/9			·····							<del> </del>			
allipur District										100	80	- 37	43	85	34.5
AL 10 Kotkhu	-103			-30	32	18	18	43	0	123	49	16	16	32	24.5
AL - 13 Lubhu	-56		-7	-7	10	33	. 0	-3	. 0	65	162	75	87	147	29.5
Al 19 Thika Bhairaw-(I)	-184		-55	-40	80	37	37	72	.0	249	33	22	11	42	47.5
AL - 20 Thika Bhairaw (II)	-47	-75	0	-2	. 19		11	9		41	33	<del></del>			
Sub-total	-385	-694	-76	-78	141	99	67	121	0	481	323	150	157	305	31.8
Tutal	-75	-1,184	-91	-163	198	190	- 168	229	-25	664	683	309	261	5 4 5	31.6
* *		: -			Polato To	tal i	497	Legume	204		Vegetah	le Total 1	2,036		

Table 6 - 5 Summary of Recommended Farming Practices

Crops	Planting Time	Seed rai Kg/ha	Rov	pacing w x Plan (cm)	Organio t matter (ton)	: Irrigation Number (Total/mm)	Fertilizer NPK (Kg/ha)	Pesticide *	Fungicide **	Labour ** (man/days	* Harvesting	Main	(ton/ha
Paddy	June - July	45-50	20	x 20		Continuous (1250mm)	100:30:30	Se, Su, Mx, Mc F, Cf	D78, Hi, Ce, Am	216	Oct - Nov	•product	
Potato	Dec Jan.	1000	70	x 25	15-20	4 - 5 (500-700mm)	150:60:350	Ma, Se, A	D45, Ag, Lo, F	226	March - April		
Ægumes						(annonini)	ı						
Broad bean	NovDec.	20-100	45-120	х 5-2	0 20	2 (530mm)	40:40:40	Ма, Мх	Ce, Th, D45, B Ag, Su,	147	Mar Apr.	0.6-1.5 (grain)	4-16 (pod
Garden pea	NovDec.	60-140	30-65	х 3-7	20	2 (530mm)	40:40:40	Ма, Мх	Ce, Th, D45, B Ag, Su,	70	Mar Apr.	1.5 · 2.5 (grain)	4-16 (pod
egetables						******							
Cauli flower	Aug - Nov	0.7	60	x 45-6	60 20-30	(300mm)	100:60:50	Me, Se	D45, D78, Ca, Th F, Ag, Cc, Am, Ba	390	Dec - Mar	20 - 30	
Cabbage	Aug - Nov	0.6	60	x 45	20-24	(300mm) .	100:60:50	Me, Se	D45, D78, Ca, Th F, Ag, Ce, Am, Ba	350	Dec - Mar	14 - 20	
Radish	Sep - Oct	50	30	x 10	20	(300mm)	50:40:40	Se, Ma, F, Mx	B, Th	320	Dec - Feb	25 - 30	
Turnip	Aug - Sep	4	30	x 20	16-20	(300mm)	50:40:40	Se, Ma, P, Mx	B, Th	320	Oct - Nov	10 - 15	
Carrot	Nov - Dec	5-6	45	x 10	20	(300mm)	60:40:40	Se, Ma, F, Mx	B, Th	320	Nov - Apr	18 - 20	
Broad-leaf mustare	l Oct - Jan	6	30	x 10-1:	5 20	N.A.	100:40:40		D78, B1	705			
Garden Cress	Oct - Feb	10		x 2-3	20	N.A.	60:40:40		D78, BI	325	Dec - Apr	20 - 30	
Spinach	Sep - Dec	10		x 5-7	20	N.A.	60:40:40		D78, B1	325	Dec - Mar	6 - 10	
Swiss chard	Aug - Dec	10		x 20	20	N.A.	60:40:40		D78, BI	325 325	Nov - Peb Oct - Mar	16 - 20 20 - 30	
Onion	Sep - Nov	8-10	15	x 10	20-30	(460mm)	60:40:50	Ма	D45, Ca, Th, Di Bl	610	Mar - May	20 - 30	
Garlie	Sep - Dec	.500-600	15	x 5-10	20-30	(360mm)	60:40:50	Ma	D45, Ca, Th, Di Bl	610	Feb - May	10 - 12	
Tomato	Feb - Apr	0.4-0.5	60-75	x 45⋅60	20	(460mm)	100;40;40	Se, Ma, F	Ag, Ca, Th, Di D45, D78	327	May - August	20 - 30	
Brinjal	Feb - Apr	0.5-0.6	60	x 75	20	(480mm)	60:40:40	Se, Ma	B, D45	475	Apr - Aug	30 - 40	
Sweet pepper	Jan - Apr	1.0-1.5	60 .	x 45	24-30	(580mm)	80:60:60	Se, Ma, D, Mx	D45, Bl, Ca	327	Apr - Aug	10 - 16	
Chili	Feb - Apr	1.0-1,2	45-60	x 30-45	20	(580mm)	60:40:40	Se, Ma, D, Mx	D45, Bl, Ca	310	Apr - Aug	2-4	5-10
Lady's finger	Mar - May	15	60 :	k 15	20	(300mm)	60:40:40	Ma, Se, Mx, D		472	May - Aug	(dry) 15 - 20	(fresh
Cucumber	Mar - May	2.5	120-150	<b>5</b> 0	20-30	(300mm)	60:40:40	Ma, Sc	Su, Th, D45, D78	310	Apr - Aug	12 - 14	
Bitter gourd	Feb - May	4 .	120-150	50-75	20-30	N.A.	80:40:40	Ma, Se	Di, BI Su, Th, D45, D78 Di, BI	310	Apr - Aug	10 - 20	
French bean	Feb - Apr	20-100	45-120 x	5-20	20	N.A.	40:40:40	Ma, Mx	Ce, Th, D45, B Ag, Su,	220	Apr - Aug	0.6-1.4	
Cow pea	Mar - May	60-140	30-65 : x	3-7	20	2 (530mm)	40:40:40	Ма, Мх	Ce, Th, D45, B	220	July - Oct	1.5 - 3.0	1

Remarks:

<sup>\*</sup> Insecti, & Pesticides : Se = Sevin , Su = Sumithion , Mx = Metesystox , Me = Metacid , F = Folithion , Cf = Carbo Fenthion , DF = Endrin or Foradan

 $<sup>\</sup>Lambda = Aldrin$  , D = Dimecron , H = Heptachtor , Cr = Chlordane ,  $M\alpha = Malathion$ ; D78 = Dithane - Z78, D45 = Dithane - 45, Hi = Hinosan, Ce = Ceresan, Vi = Vitavax 200, Ca = Captan, Ap = Apron 35, Th = Thiram \*\* Fungicides  $Am = Agrimycine \;,\; Ag = Agrol \;,\; Lo = Lonacol \;,\; F = Fytolan \;,\; B = Bordesux \;, Su = Sulfer \;,\; Zi = Ziram \;,\; Bl = Blitox \;,\; Ba = Bavistin \;,\; Bavis$ 

Di = Difeinton : Average of Ililly Area by source (2) or Results of farm survey by JICA Study Team

Trainer's manual, Manpower Development Agriculture Project, DoA
 Rice (1992), Whent (1988), Maize (1989), Potato (1992), Oilseeds (1990), Grain Legumes (1990), Vegetables (1988), Irrigation (1991)

 Report on Cost Production for Major Crops in Nepal 1991/92, Economic Analysis Division, DoA, MoA, 1992
 Normand Manualization for Production for Agriculture Parts Vol. 1, App. 2001, 1992

<sup>(3)</sup> Norms and Normatives for Planning in Agriculture Sector Vol. 1, APROSC, 1990

<sup>(4)</sup> Kitchen Garden Table, VDD, MoA

Table 6-6 Recommended Varieties of Vegetables

Crop	Variety	Season	Ecological Region	Remarks
Cole Crops				
Cauliflower	Kathmandu	Middle	Plain - H. hill	Released in 198
	Snowball	Middle Early	Plain - M. hill Plain - M, hill	
	Pusa Deepali Kibo Giant	Late	M. hill	
Cabbage	Copenhagen Market	Middle	Plain - M. hill	
Chounge	Pride of India	Early	Plain - M. hitt	
	Late Large Drum Head	Late	M. hill - H. hill	
Root Crop				
Radish	Mino Early	Early - Mid.	Plain - H. hill Plain - H. hill	Released in 198
	White Neck Pyuthane Red	Mid Late Mid Late	Plain - H, hill	
	40 days	Early	Plain - M. hill	
	Tokinashi	All	M. hill	
Carrot	Nantees	Middle	Plain - H. hill M. hill	Reteased in 198
	New Kuroda	Middle	Plain - H, bill	Released in 198
Turnip	Purple Top		Plain - 13, mit	Reseased in 190
Fruits Crop				D 1 11 100
Tomato	Pusa Ruby	Early	Plain - H. bill Plain - H. bill	Released in 198
	Monprecos Chines	Spring Late	M. hill	
	Roma	Early - Mid.	M. hill	
	Pusa Early Dwarf Cold set	Early Middle	Plain - M. hill M. hill - H. hill	
•	CL-1131	Middle	Plain - M. hill	
Brinjal				
•	Pusa Purple long	Middle	Plain - M. bill Plain - M. bill	
	Nurki Pusa Kranti	Middle Middle	Plain - M. hill	
	Sariahi green	Late	Plain - M. bill	
Sweet pepper	California wonder	Middle	Plain - M. hill	
Chilli	Pusa Jwala	Middle	Plain - M. hill	
	NP 46	Middle Middle	Plain - M. hill Plain - M. hill	
7 14 Charles	Kathmandu Pero Saucoi	Middle	Plain - M. hill	
Lady's finger	Pusa Sawani	1410010		
Leaf Crop	Khumal broad leaf	Late	M. hill	Released in 198
Broad leaf mustard	Marpha broad leaf	Middle	M. hill	Trois, and an are
Spinach	Patane '	Middle	M. hlll	
Cress	Kathmandu	Middle	M. hill	
Fenugreek	Kasuri	Middle	M. hill	*
Bulb Crop				
Onion	Red Creole	Middle	Plain - H. hill	Released in 198
Onton	Nuwakote	Early	M. hill	
	Jight Red	off-season Middle	Plain - M. hill Plain - M. hill	
	Dark Red	Middle	t fair - tra, trat	
Leguminous Crop			DI_\$_ II I.!!!	•
Garden Pea	New Line Perfection Arkel	Late Early	Plain - H. hill Plain - H. hill	· 5.
	Sikkim	Rainy	Plain - H. hill	:
	Bonneville	Middle	Plain - H. hill	
French bean	Contender	Middle	Plain - H. hill	
	Kentucky Wonder	Middle	Plain - H. hill	
Asparagus bean	Khumal Red Sarlahi Black	Middle Mid Late	Plain - M. hill Plain - M. hill	
<u> </u>	Darran Mack	41144 1444		
Cucurbit Crop	Various	Early	Plain - M, hill	
Cucumber	Kusume Local	Middle	Plain - M. hill	e en e
	Pointset	Early	Plain - M. hill	
Summer squash	Black Beauty	Middle	M. hill	
	Gray Zucchini	Middle	M. hill	·
Bitter gourd	PDM	Middle Middle	Plain - M. hill Plain - M. hill	100
	Com. Long	Middle	The second second	
Bottle gourd	PSPL	Middle	Plain - M. hill	
Sponge gourd	Pusa Chillo Pokhara	Middle Middle	Plain - M. hill Plain - M. hill	
The second second	Kathmandu Long	Middle	Plain - M. hill	

Resources: Proceeding of the Regional Workshop on Vegetablie Seed Production , 1992

Table 6 - 7 Anticipated Unit Yield With Project Condition

j	Present Unit Yield in the Project area *	Trainers Manual Experimental Yield **	Farm Survey Result ***	Anticipated Yield With Project Condition
Paddy	4.23	7.3 Taichun 7.3 Chainun 4.3 Masuli 5.6 Khumal 6.3 Khumal	g-242 -2	5.2
Potato	10.02	30.0 - 32.0 30.0 Cardinal 32.0 Kufri Jy	13.2 (red) oti (white)	13.0
Broad bean	1.36	1.0 - 1.5	1,5	1.5
Vegetables				
Cauliflower		10.0 - 30.0 20.0 - 30.0 M 20.0 - 24.0 L 10.0 - 14.0 E	15.9	16.0
Cabbage		16.0 - 30.0 20.0 - 24.0 M 24.0 - 30.0 L 16.0 - 20.0 E	19.1	19.0
Radish		20.0 - 50.0 40.0 - 50.0 E - M 32.0 - 34.0 M - L 20.0 - 24.0 E	23.8	24.0
Carrot		12.0 - 14.0	10.4	10.0
Tomato		20.0 - 30.0	12.0	12.0
Brinjal		30.0 - 40.0	20.0	20.0
Sweetpepper		10.0 - 16.0	10.5	11.0
Chilli		8.0 - 16.0	7.1	7.0
Broad leaf musta	rd .	30.0 - 40.0	19,6	20.0
Spinach		16.0 - 20.0	12.0	12.0
Cress		6.0 - 10.0	8.0	8.0
Onion		20.0 - 30.0	18.3	18.0
Garlic		10.0 - 12.0	9.3	9.0
Pea		5.0 - 10.0	2.7	3.0
French bean	100	10.0 - 16.0	··· 3.6	4.0
Cucumber	***	12.0 - 14.0	9.7	10.0
Summer squash		10.0 - 20.0	11.0	11.0

Source:

Remarks:

VE (very early season), E (early season), M (middle season), L (late season)

<sup>\*</sup> Farm Survey, JICA Study Team, 1994

<sup>\*\*</sup> Trainer's Manual of Vegetables, Paddy, Potato, Legumes, DoA, 1988

<sup>\*\*</sup> Paddy, Potato, Legume: Farm Survey Result of Full Irrigation area in the Project areas Vegetables: Farm Survey Result of Vegetable Pocket area in Kathmandu Valley

Unit Yield and Production under Without and With Project Condition Table 6-8

Without Project Conditi Crops	Paddy	Wheat	Maize	Mustard	Potato	Early Potato	Late Potato	Broad Bean	Garden Pea	Summer Vege,	Winter Vege.	Green Leaf Veg.	Bulb
Unit Yield (kg/ha)	4,230	1,990	1,460	600	10,020	8,500	8,500	1,360	820	-	-	<u>.</u>	-
Kathmandu District								_	•				
AK - 04 Biswambhara	298	75	12	7	88	0	0	0	0				
AK - 05 Boshan	512	134	0	28	140	0	0	0	0 20				
AK - 07 Dakshinkali	255	31	0	17	17	0	0	_	0				
AK - 14 Indrayani	376	110	3	1	195	0	0 187	0	0				
AK - 25 Shali Nadi	628	110	0	4	535	187	187	<u> </u>					
Sub-total	2048	491	15	49	854	187	187	0	0				
Bhaktapur District													
AB - 02 Bidol	131	44	0	0	33	0	0	0	0				
AB - 10 Katunje	171	62	3	1	63	0	0	0	0				
AB - 12 Kutudhal	176	76	0	0	64	0	0	0	0				
AB - 14 Mahadev Khola	461	215	3	2	65	0	0	4	0				
Sub-total	941	376	6	4	223	0	0	4	0				
Lalitpur District													
AL - 10 Kotkhu	951	276	21	15	275	0	0	0	0				
AL - 13 Lubhu	556	194	10	3	59	0	0	29	0				
AL - 19 Thika Bhairaw-	(I) 1989	783	80	29	420	0	0	23	0				
AL - 20 Thika Bhairaw-		180	0	<u> </u>	25	0	0	2	0				
Sub-total	3853	1476	112	46	776	0	0	50	0				
Total	6842	2343	133	99	1853	187	187	54	20		<del></del>		

<with condition="" project=""> Crops</with>	Paddy	Wheat	Maiza	Mustard	Potato	Early Potato	Late Pototo	Broad Bean	Garden Pea	Summer Vege.	Winter Vege.	Green Leaf Veg.	Bulb crop
Unit Yield (kg/ha)	5,200	-	•		13,000	11,000	11,000	1,500	-	12,000	16,000	20,000	18,000
Kathmandu District				<b></b>									
AK - 04 Biswambhara	239				299	127	127	17		552	552	460	207
AK - 05 Boshan	317				397	101	101	32		732	634	366	384
AK - 07 Dakshinkali	174				218	92	92	-13		402	402	335	151
AK - 14 Indrayani	263				328	139	139	19		606	606	505	227
AK - 14 Indrayani AK - 25 Shali Nadi	408				510	216	216	29		942	1,068	1,099	212
Sub-total	1,401				1,752	674	674	110		3,234	3,262	2,765	1,181
Sub-toliit	17101								~ ;***				
Bhaktapur District										192	166	96	101
AB - 02 Bidol	83				104	26	26	8			240	100	62
AB - 10 Katunje	104				65	110	0	6 *		240		65	68
AB - 12 Kutudhal	112				42	118	0	7 #		258	224		
AB - 14 Mahadev Khola	291				109	308	0	25 "		672	582	168	274
Sub-total	590				320	563	26	46 .		1,362	1,212	429	505
Lalitpur District								65		1,476	1,279	738	775
AL - 10 Kotkhu	640				800	203	203			780	780	325	293
AL - 13 Lubhu	338				211	358	0	24		2,982	2,584	1,491	1.566
AL - 19 Thika Bhairaw-(I)	1,292				1,615	410	410	130		,		440	198
AL - 20 Thika Bhairaw-(II	229				286	121	121	17		528	528	440	
Sub-total	2,499				2,912	1,091	734	236		5,766	5,172	2,994	2,831
Total	4,490				4,984	2,328	1,434	393	. :	10,362	9,646	6,188	4,517
<total balance=""></total>	.,,,,,,,											· .	· · · · · · · · · · · · · · · · · · ·
Total	-2,352	-2,343	-133	-99	3,131	2,141	1,247	339	-20	10,362	9,646	6,188	4,517
	1.				Potato T	ital :	6,519	Legume	319		Veget	ıble Total :	30,713

\* ; Due to the limitation of irrigable area in dry season, Yield is reduced in the 58% of total planted area.
# ; Due to the limitation of irrigable area in dry season, Yield is reduced in the whole planted area.
\* ; Due to the limitation of irrigable area in dry season, Yield is reduced in the 47% of total planted area.

Financial Cost and Return under Without and With Project Condition (1/2) Table 6 - 9

Without Project Condition

¥ X 8 340 340 11,290 7,080 4,21) Value (NRs.) 16.20 5.72 8.50 0.50 450.00 90.09 Maize Price (NRs.) 1,468 Ê Value (NRs.) Legumes (Garden Pea) 16,00 45.00 Price (NR<sub>E</sub>) ě 12.551 76.9%) Value (NRs.) Legumes (Broad bean) 90.00 0.00 12.00 10.20 5.72 8.50 0.50 450.00 Qny Price (NRx.) 166 420 0 310 0 7,778 112 1352 Value (NRs.) Price (NRs.) Without Project Condition Ė 59,500 0 59,500 2110 900 0 2,650 0 0 17,340 1,440 20,811 38,689 Value (NRa.) 90.00 10.20 5.72 8.50 0.50 450.00 0.00 0.00 Price (NRs.) È 1,440 1,040 1,480 49,329 (70,3%) 20,811 Value (NRs.) 10.20 5.72 8.50 0.50 90.00 0.00 Price (NRs.) Potato έ 517.1 527 5434 8,578 (52.3%) Value (NRs.) 7,823 90.00 Price (NRs.) È 35,960 3,320 39,280 2,520 1,620 4,140 29,337 200 Value (NRx.) 90.00 45.00 Price (NRs.) Pagg 4,230 ₿ 28 36 216 Caut M W 8 8 8 d) Labour Requirement
Family Labour
-Male
-Pernale
N c) Agro- chemical Sub-total (a to ¢) A) Ourput
a) Production
b) By-product
Gross Income C) Return (A-B) B) Input a) Seed b) Fertilizer Sub-total (d) Total Cost

Financial Cost and Return under Without and With Project Condition (2/2)

Description Crop		4	Pactdy		ļ	Potato			E.L. Pozzio		13 8	Legumes (Broad bean)		Ser	Summer Veg. (Tomato)		₽ Û	Winter Veg. (Cauliflower)		P gr	Green Leaf Veg. (Broad Leaf Mustard)	5. (braid)		Bulb crop (Onion)	
(ha) Description	Unit	8	Price V (NRs.)	Velue (NRs.)	8	Price (NR&)	Value (NRs.)	8	Price (NRk)	Value (NRs.)	8	Price (MRs.)	Value (NRx.)	8	Price (NRs.)	Value (NRs.)	ě	Price (NRx)	Value (NRs.)	É	Price (NRs.)	Value (NRs.)	Ē	Price (NRs.)	Value (NRs.)
A) Outpit a) Production b) By-groduct	Z Z	5.200	8.50 68.0	44,200	13,000	2,00	000,19	000,11	7.00	000,77	1,500	1200	18,000	12,000	7.65	91,800	16,000	8.73	089,680 0 139,680	20,000	5.90	118,000 0 118,000	18,090	5,40	97.200 0 97.200
c) Gross Income ? B) Input	NR <sub>2</sub>			987	į	į,	000°16	80.	9	900	۶	12.00	£ 4	30000	010	3,000	0.7	300.00	310		80.00	084	10	9560	2250
	Kg.	8	16.80	840	1,000	19.80	16,800	1,000	10.00	10,000	ŝ			(seedling)							;		•		
b) refunce Complex	Kg	83	10.20	1,530	150	10.30	1,530	150	10.20	1,530	E c	10.26 11.36	1,300	9 9 9	10.20	3,060	දූ දෙ	10.20 5.72	3,060 510	96 53 53	02.01 57.2	56 56 56	95 45	5.7.8	<u> </u>
	K8	8	5. S.	910 91	KS . }	ri s	2 8	S 2	7 S	8 8	ф	3,3	0 0	133	8.50	1,130	4	8.50		95	8.50	280	2	8.50	
٠.	8	e e	7 5	2 8	97	3 5	3.5	15,000	0.50	7.500	1,114	0.50	98	10,000	0.50	5,000	20,000	0.50	10,000	10,000	0.50		10,000		
	<b>2</b> 1	organ	R 5	996	7	90.04	1.800	4	450.00	1,800	2	450.00	8	4	450.00	1,800	4	420.06		4	450.00		**	450.00	
c) Agro-chemical Sub-total (a to c)	X S	•	7	7.820	•		28,920			28,920			330			14,500			15,920			10,640			070 <b>7.1</b>
d) Labour Requirement		:	. :	; ··.																					
Family Labour		٠				1	2	i	•		ş	2	•	7	900	c	¥	000		22	000		178	6.00	_
-Male	O.	\$3	0.00	•	F	000	0 '	" }	60.00	0 0	ት ቶ	3 6	> <	ş	900		Ħ		0	50		0	11	000	
Female	O.W.	5	000	: •	116	000	0	911	0.00	>	=	000	>	ì											
Hired Labour						00		ž	8	077	11	90.00	86	9	90.00	\$ <del>5</del>	36	90.00	1,440	35	90.00	3 5.230	215	90.00	,
-Male	XXD	23	878	2,520	g	200		2 8	3		, 4	¥ 5	Ę	16	45.00	-	89	45.00	360	*	45.05	3,876	105	45.00	4,730
-Female Sub-total (d)	QW	35 315	45.00	4,140	胃胃	45.00	1, 1 <sub>2</sub>	គិត	3	94.80	F# C	}	1.260	32			330		1,806	325		9,090	610	_	24,083
e) Miscellaneous (5%)			 	<b>8</b> 5	:	. :	1,570			072,1			ä			813			3886			186			1.808
Total Cost	Ž.	٠		855.21			32,970			32,970			4,715			17,073			18,506			717,02			37,958
	!			,			48 030			4.030			13,286			T27.47			121,074			582"28			59,243
C) Return (A - B)	XX.			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			(63.8%)			(\$7.2%)			(73.8%)			(81.4%)			(86.7%)			(82.4%)			(56095)

Table 6 - 10 Economic Cost and Return under Without and With Project Condition (1/2)

Without Project Condition

Charle   C	Description	•												William Project Containon												
This	Crop (fta)			Paddy			Wheat			Potato		EI	, Potato		Mt	stard		∵e	(egumes road bean)		T &	egumes irden Pea)			Maize	
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		Unit	È	Price (NRs.)	Value (NRs.)		Price (NRs.)	Velue (NRs.)		Price (NRs.)	Value (NRs.)	_	Price NRs.)	Value (NRs.)			Value NRs.)	Ê	Price (NRs.)	Value (NRs.)		Price (NRs.)	Value (NRs.)	Š	Price (NRs.)	Value (NRs.)
classes         Kg         4.35         1.05         6.35 <t< th=""><th>A) Output</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	A) Output																									
No. 1	a) Production	kg.	4,330	10,30		1,990	14.30		10,620	7.00	70,140	8,500	7,00	59,500	909	16.00	009'6	1,360	12.00	16,320	815	16.06	13,040	1,460	10.50	15,330
National Plate   Nati	b) By-product	×	4,145	0.80		1,910	0.25		0	0.00	0	0	000	0	99	0.80	33	O	000	c	Đ	0.00	0	131	6.25	9
No.	Gross Income	NRs			46,890			28,940			76,140			59,500			10,130			16,320			13,040			15,670
Kg         10         15<	B) Input							٠																		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	a) Seed	X	S.	16.80		139	12.00		\$69	16.80	11,680	\$69	16.80	11,680	17	18.00	310	ŝ	12.00	470	15	25.00	380	R	10.00	230
Kg         1136         1240         1136         1	b) Fertilizer																									í
Kg         131         135         1360         133         125         1400         133         125         1400         133         125         1400         133         125         1400         133         125         1400         133         125         1400         133         125         1400         133         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         1400         125         12	Complex	Kg Kg	211	11.36	2,400	160	11.36	1,820	207	11.36	1350	707	11.36	2,350	16	11.36	180	127	11,36	1,440	8	11.36	910	200	11.36	950
Kg         250         0         8.50         0         0         6.50         0         6.50         0         6.50         0         6.50         0         6.50         0         0         6.50         0         0         6.50         0         0         6.50         0         0         6.50         0         0         4500         0         0         4500         10         4500         10         4500         10         4500         10         4500         10         4500         10         4500         10         4500         10         4500         10         4500         10         4500         10         4500         10         4500         10         4500	Urea	Kg	57	15.51	1,900	133	12.57		157	12.57	1,970	157	12.57	1,970	75	12.57	930	0	12.57	Ф	Đ	12.57	0	18	12.57	1,090
Kg   255  0.45   1310   1.956   0.45   850   5.256   0.45   2.80   0.45   2.80   0.45   2.80   0.45   2.80   0.45   2.80   0.45   0.4	Potash	ĸ \$	•	8.5		0	8.50		0	8.50	0	Φ	8.50	0	0	8.50	o	0	8.50	0	Ф	8.50	0	0	8.50	0
No.	Manue	-	2951	0.45		1,926	0.45		5,295	0.45	2,360	5,295	0.45	2,360	611	0.45	270	1,114	0.45	500	202	0.45	8	2,674	6.45	1,190
The control of the co	c) Agro-chemical		٥.	450.00	0		450.00	0	4	450.00	O	Ф	450.00	Đ	·	450.00	٥	0	450.00	0	Φ	450.00	0	0	450.00	¢
Hand Best Gaso 4100 41 Gaso 2580 71 Gaso 72 Gaso 71 Gaso 72 Ga	Sub-total (a to c)				6,450			6,020			18,360			18,360			1,690			2410			1,380			3,460
MD         65         63.06         1.50         1.50         4.70         71         63.00         4.70         71         63.00         4.70         72         63.00         21.40         55         63.00         21.70         50         1.50 </td <td>d) Labour Requirez</td> <td>to to</td> <td></td>	d) Labour Requirez	to to																								
MD         65         63.00         41.00         41         63.00         44.00         47	Family Labour						•																			
MD         87         31-50         1.75         48         31-50         1.5	-Male	MG	8	63.00	4,100	4	63.00	2,580	Ľ	63.00	4,470	۲	63.00	4,470	ĸ	63.00	2,146	\$	63.00	3,720	30	63.00	1,890	43	63.00	2,710
MD         28         63.00         1.76         1.8         63.00         1.01         6.3         1.01         1.01         6.3         7.3         7	-Female	M/D	87	31.50		48	31.50	1,510	116	31.50	3,650	116	31.50	3.650	61	31.50	1,920	Ľ	31.50	2,240	4	31.50	1,260	83	31.50	1.670
MD         28         63.06         1.76         19         63.00         100         60         63.00	Hired Labour			٠																						
MD         36         1130         16         13.50         570         25         13.50         70         6         31.50         90         6         31.50         90         6         31.50         90         9         31.50         90         9         113         114	-Male	MA	84	63.00		13	63.00	1,200	36	63.00	1,010	91	63.00	1.010	10	63.00	8	Ξ	63.00	069	Ð	63.00	0	19	63.60	380
216         9,779         124         5,780         226         9,850         108         4,780         147         6,840         70         31,50         114           (5%)         360         1431         1,411         324         4,53         227         227         124           NRs         15,240         12,401         29,621         29,621         6,794         9,713         4,757         7,757           NRs         16,240         40,520         29,880         5,347         40,556         8,284           NRs         (53.5%)         (53.5%)         (53.5%)         (53.5%)	Female	O.W.	Ж.	31.50		91	31.50	200	ស	31.50	ğ	ឧ	31.50	720	m	31.50	8	9	31.50	190	0	31.50	0	12	31.50	380
(5%)         809         591         1,411         1,411         534         463         463           NRs         12,401         23,621         23,621         6,794         9,713         4           NRs         29,901         16,540         40,520         23,880         3,337         6,608         8           NRs         (57,3%)         (57,3%)         (57,3%)         (50,2%)         (50,2%)         (53,5%)         (63,5%)         (63,6%)	Sub-total (d)		216		9,730	124		5,790	827		9,850	ន្ត		9,850	108		4,780	147		6.840	8		3,150			5,140
NRs         16.989         12.401         29.621         29.621         6.794         9.713           NR         29.901         16.540         40.530         29.880         3.337         6.008           (53.2%)         (51.2%)         (50.2%)         (50.2%)         (52.9%)         (40.5%)         (60.5%)	e) Miscellaneous (\$	ĵ.			608	:		165			1,411			1,411			뚔			463			ង			430
NRs 25901 16,549 40,520 25,880 5,337 6,608 (65,8%) (57,2%) (57,2%) (57,2%) (57,2%) (57,2%) (60,5%)	Total Cost	NRs			16,989			12,401			129,62			29,621			5,794			9,713			4,757			9,030
NR 29901 16,540 40,520 29,880 3,337 6,608 (65,8%) (65,8%) (57,2%) (57,2%) (57,2%) (57,2%) (67,2%)																										
(57.2%) (57.2%) (50.2%) (40.5%)	C) Renum (A - B)	ž			29,901			16,540			40,520			29,880			3,337			6,608			8,284			6.645
					(63.8%)			(57.1%)			(57.8%)			(50.2%)			(35.9%)			(40.5%)			(63.5%)			(42.1%)

Economic Cost and Return under Without and With Project Condition (2/2)

ļ									i					With Project Condition	Condition											
	Description Crop	1	, c	Paddy			Potato		EI	EL. Potato		13.8	Legunes (Broad bean)		ans C	Summer Veg. (Tomato)		, ,	Winter Veg. (Cauliflower)	!	Gree (Broad	Green Leaf Veg. (Broad Leaf Mustard)	ard)		Bulb crop (Onion)	
	(ba) Description	Ç	8	Price (NRs.) (i	Value (NRs.)	8	Price (NRs.)	Value (NRs.)	8	Price (NRs.)	Value (NRa.)	8	1 1	Value (NRs.)	&	Price (NRx.)	Value (NRc.)	B	Price (NRs.)	Value (NRs.)	Ş.	Price (NRx.)	Value (NRs.)	È	Price (NRs.)	Value (NRs.)
◀	A) Ourput a) Production b) By-product c) Gress Income	Kg Kg NRs	5.096	10.30	53,560 4,080 57,640	13,600	007	000,19	11,000	7.00	000.TT 0	1,500	9075	18,000 0 18,000	12,000	7.65	91,800	16,000	£7.8	139,680 ti	20,030	5.90	118,000 0 118,000	18,000	5.40	97,200 0 97,200
М.	B) Input a) Seed	X X	· &	16.80		1,000	15.80	16,800	1,000	16.80	16,800	. <b>6</b> 8	12:00	470	30000	01.0	3,000	0.7	300.00	210	9	80.09	480	10	225.00	_
	b) Fertilizer Complex	2 5	8 8	11.36	1,700	87 18	11.36	1,700	≅ &	11.36	1,700	127 0	11.36 12.57	1,440	300 300 300	-,	3,416	96 gr	11.36	6.7	135	11.36	0.220	8 4 %	65.11 72.51	
	Potasti Manure	i n n	6,000	82. 0.45.	140	116	8.50	990	116	8.50	066	1,114	8.50	D 98 8	16,000	0.45	1,130 4,450 1,800	20,000	8.50 0.45 0.00	8,900 1,800	10,000	0.45	4	10,000	Ťř	
	c) Agro- chemical Sub-total (a to c)	ж э	<b>4</b> - 2 - 2	450.00	1,800	4	450.00	1,800	<b>4</b> 	420.00	28,640	я	JU.00	3,310	•	44446	14,920		į	-			11.330			
	d) Labour Requirement Family Labour -Male -Female	MAD MAD	8 2	31.50	4,100 2,740	71 216	63.00 31.50	4,470 3,650	77 311	63.00 31.50	4,470 3,550	\$ 12	63.00 31.50	3,720	4 K	63.00 31.50	2.770 7,880	¥ 5	63.00 31.50	8,440	79 102	31.50	5.210	871 £11	65.00 31.50	06
	Hired Labour -Male -Fernale -Sub-total (d)	COM COM	38 38	31.50	0,770 0,730 9,730	25 ES ES	31.50	1,010 720 9,850	គម់អ្	31.50	0.010 04.7 0.830	11 6 147	31.50	690 190 6,840	6 72 327	63.06 31.50	380 850 11,880	15 8 390	65.00 31.50	1,016 250 17,010	58 86 325	55.00 31.50	3,650 2,710 14,550	215 105 618	63.00 31.50	9 0
	c) Miscellaneous (5%)	ø	.*		106			2261			2,925			808			1,346			1,640			1,289			
٠.	Total Cost	NRs	 		116,811			40,415			40,415			10,658			28,140			105.240			90.931			51,387
	C) Return (A - B)	N. S.			38,730			50,586			36,586 (47 <u>-</u> 5%)			(40.8%)			(%5.69)			(75.3%)			(7.1%)			(52.8%)

Financial Irrigation Benefit under Without and With Project Condition

Crops	Farm Land	Paddy	Wheat	Maize	Musland	Polatoes	liarly Potatoes	Late Potatoes	Dread Bean	Garden Pea	Summer Vege,	Winter Vege.	Green Leaf Veg.	Bulb crop	Total Area	Incremental Benefit per h
Return by crop (N.Rs./ha)	(ha)	29,337	B,578	7,080	7,778	49,329	38,689	38,689	12,551	11,675	-	•	•	•	('000 NRa.)	(1000 NRs.)
Kathmandu District																
AK - 04 Biswambhara	92	2,429	584	65	72	545	0	0	0	0					3,694	40
AK - 05 Bostian	122	3,579	607	0	266	602	0	0	0	0					5,054	41
AK - 07 Dakshinkali	67	1,966	126	0	182	99	0	0	0	289					2,663	
AK - 14 Indrayani	101	2,904	676	14	16	897	0	0	0	0					4,506	45
AK - 25 Shali Nadi	157	4,606	673	0	61	1,859	851	851	0	0					8,900	57
Sub-total	539	15,483	2,667	79	596	4,001	851	851	0	289					24,817	46
Bhaktapur District																
AB + 02 Bido!	32	939	220	0	0	158	0	0	0	0					1,316	41
AB - 10 Katunje	40	1,115	254	14	19	296	0	0	0	0					1,698	42
AB - 12 Kutudhal	43	1,261	295	0	7	276	0	ō	ō	ō					1,839	43
AB - 14 Mahadev Khola	112	3,220	769	16	44	276	o o	6	42	0					4,366	39
Sub-total	227	6,535	1,537	30	69	1,006	0	0	42	0					9,219	41
alitpur District																
AL - 10 Kotkhu	246	6,640	1,393	105	230	1,456	- 0	0	-0	0					9.813	40
AL - 13 Lubhu	130	3,547	725	46	51	321	0	ā	245	Ü					4,934	38
AL - 19 Thika Bhairaw-(I	497	12,685	3,197	387	309	2.206	0	Ô	187	Õ					18,972	38
AL - 20 Thika Bhairaw-(I	) 88	2,530	642	0	14	130	ō	0	2.2	ō					3,338	38
Sub-total	961	25,401	5,957	538	603	4,114	0	. 0	454	0					37,066	39
Total	1,727	47,420	031,01	647	1,268	9,120	851	851	496	289					71,103	41

## <With Project Condition>

Crops	Farm Land	Paddy	Wheat	Maize	Mustard	Potatoes	Early Polatoes	Late Polatoes	Broad Bean	Garden Pea	Summer Vege.	Winter Vege.	Green Leaf Veg.	Bulb crop	Total Area	Incremental Benefit per h
Return by crop (NRs./ha)	(ha)	35,722		•	•	58,030	44,030	44,030	13,286	•	74,727	121,074	97,284	59,243	(1000 NRs.)	('000 NRs.)
Kathmandu District																
AK - 04 Biswambhara	92	1.643				1.335	506	506	153		3,437	4.177	2,238	681	14.677	100
AK - 05 Boshan	122	2,179				1,770	403	403	284		4,558	4.801	1.780	1,265	17,442	
AK - 07 Dakshinkali	67	1.197				972	369	369	111		2,503	3.042	1,630	496	10,688	
AK - 14 Indrayani	101	1,804				1,465	556	556	168		3,774	4.586	2,456	748	16,112	
AK - 25 Shali Nadi	157	2,804				2,278	864	864	261		5,856	8,079	5,346	698	27,059	
Sub-total	539	9,627				7,820	2,698	2,698	976		20,139	24,584	13,450	3,888	85,979	160
Bhaktapur District																
AB - 02 B ido1	32	572				464	106	106	74		1,196	1,259	467	332	4,575	143
AB - 10 Katunje	40	714				290	440	0	28 *		1,495	1,816	486	124 +	5,394	
AB - 12 Kutudha1	43	768				187	473	ň	0#		1,607	1,692	314			135
AB - 14 Mahadev Khola	112	2,000				487	1,233	o o	138 "		4,185	4.407	817	0 A 615 *	5,041 13,883	117 124
Sub-total	227	4,054				1,429	2,252	106	240		8,482	9,174	2,084	1,072	28,893	127
Lalitpur District																
AL - 10 Kotkhu	246	4.394				3,569	812	812	572		9.191	9.680	3,590	2,550	35,171	143
AL - 13 Lubhu	130	2.322				943	1,431	0.0	216		4,857	5,902	1,581	2,330 963		
AL - 19 Thika Bhairaw-(1)	497	8.877				7,210	1,641	1,641	1.156						18,215	140
AL - 20 Thika Bhairaw-(II)		1,572				1,277	484	484	1,130		18,570 3,288	19,556	7,253 2,140	5,153 652	71,056 [4,039	143 160
Sub-total	961	17,164				12,999	4,369	2,938	2,090		35,906	39,134	14,563	9,317	138,481	144
Total	1,727	30,846				22.247	9,319	5,742	3,306		64.527	72,992	30,097	14,277	253,353	147

## <Incremental Benefit>

Crops	Farm Land (ha)	Paddy	Wheat	Maize	Musland	Potatoes	Barly Potatoes	Late Potatoes	Broad Dean	Garden Pea	Summer Vege.	Winter Vege.	Green Leaf Veg.	Bulb crop	Total Area ('000 NRs.)	Incremental Benefit per h ('000 NRs.)
Kathmandu District							***	11								
AK - 04 Biswarrbhara	92	-786	-584	-65	-72	790	506	506	153	0	3,437	4,177	2.238	501		110
AK - 05 Boshan	122	-1.400	-607	. 0	-266	1.168	403	403	284	Ď	4,558			681	10,982	
AK - 07 Dakshinkali	67	769	-126	. 0	-182	873	369	369	111	-289		4,801	1,780	1,265	12,389	102
AK - 14 Indravani	101	-1.100	-676	-14	-16	568	556	556	168	-207	2,503	3,042	1,630	496	8,025	120
AK - 25 Shall Nadi	157	-1.802	-673	0	-61	419	13	13	26l	0	3,774 - 5,866	4,586 8,079	2,456 5,346	748 698	11,606	115
Sub-tota1	539	Facr	2 442								<del></del>			···	18,158	116
340-10121	239	-5,856	-2,667	-79	-596	3,818	1,847	1,847	976	-289	20,139	24,684	13,450	3,888	61,161	113
Bhaktapur District						e i de la					1000					
AB - 02 Bidol	32	-367	-220	. 0	0	306	106	106	74	0	1.196	1.050	467			
AB - 10 Katunie	40	-100	-254	-14	-19	-6	440	100	28	0	1.495	1,259	467 486	332	3,259	
AB - 12 Kutudhal	43	-493	-295	10		-89	473	0	10			1,816		124	3,697	92
AB - 14 Mahadev Khola	112	-1,220	-769	-16:	-44	2!1	1.233	0	- 96	0	1,607 4,185	1,692 4,407	314 817	615	3,202 9,517	74 85
Sub-total	227	-2,481	-1,537	-30	-69	423	2.252	106	198	0	8,482	9,174	2,084	1.072	19,674	87
alitpur District											0,102		2,004	1014	17,074	
AL - 10 Kotkhu	246	2210		100												
AL - 13 Lubhu	130	2,246	-1,393	-105	-230		812	812	572	G	9,191	9,680	3,590	2,550	25,348	103
AL - 19 Taika Dhairaw (1)		1,225	-725	-46	-51	622	1,431	0	-29	0	4,857	5.902	1,583	963	13,281	102
AL - 20 Thika Bhairaw-(II)		-3,808	-3,197	-387	-309	5,004	1,641	1,641	968	0	18,570	19,556	7,253	5,153	52,084	105
At 20 THE BIBLIAM-(II)	8	-958	-642	0	-14	1,146	484	484	124	0	3,288	3,995	2,140	652	10,701	122
Sub-total	169	-8,237	-5,957	-538	-603	8,885	4,369	2,938	L <sub>1</sub> 636	. 0	35,906	39,134	14,563	9,317	101,415	106
Total	1,727	-16,574	-10,160	-647	-1,268	13,127	8,468	4,891	2,810	-289	64,527	72,992	30,097	14,277	182,249	106
•						Points To	lal :	26,485	Legume 1	2,520		Vezelab	le Total	181.893		. ::

<sup>:</sup> Due to the limitation of irrigable area in dry season, Yield is reduced in the 58% of total planted area.

Due to the limitation of irrigable area in dry season, Yield is reduced in the whole planted area.

Due to the limitation of irrigable area in dry season, Yield is reduced in the 47% of total planted area.

Table 6 - 12 Economic Irrigation Benefit under Without and With Project Condition

<without< th=""><th>Project</th><th>Condition&gt;</th></without<>	Project	Condition>
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Czops	Farm Land	Paddy	Wheat	Maize	Mustard	Potatoes	Early Polatoes	Late Potatoes	Broad Bean	Garden Pea	Summer Vege.	Winter Vege.	Green Leaf Veg.	Bulb	Total Area	Incremental Benefit per ha
Return by crop (NRs./ha)	(ta)	29,901	16,540	6,640	3,337	40,520	29,880	29,880	6,608	8,284	•	-	•	,	('000 NRs.)	('000 NRs.)
Kathmandu Distrlet																
AK - 04 Hiswambhara	92	2,476	1,126	61	31	447	0	0	0	0					4,141	45
AK - 05 Boshan	122	3,648	1,170	0	114	494	0	0	0	0					5,427	44
AK • 07 Dakshinkali	67	2,003	244	0	78	81	0	0	0	205					2,612	39
AK - 14 Indrayani	101	2,960	1,303	13	7	737	0	0	0	0					5,019	50
AK - 25 Shali Nadi	157	4,694	1,298	0	26	1,527	657	657	. 0	0					8,859	56
Sub-total	539	15,781	5,142	75	256	3,287	657	657	0	205					26,059	48
Biaktapur District																
All - 02 Bido!	32	957	423	0	0	139	0	0	0	0					1,510	47
AB - 10 Katunis	40	1,136	490	13	8	243	0	0	0	0					1,890	47
All • 12 Kutudhat	43	1,286	569	0	3	227	0	0	0	0					2,084	48
AB - 14 Mahadev Khola	112	3,282	1,482	15	19	227	0	0	22	0					5,047	45
Sub-total	227	6,661	2,964	28	30	826	0	0	22	0					10,531	46
Laliipur District																
AL - 10 Kolkhu	246	6,767	2,685	98	99	1,196	0	0	0	0					10,845	44
Al 13 f.ubhu	130	3,615	1,398	43	22	263	0	0	129	0					5,470	42
AL - 19 Thika Bhairaw-fi	497	12,929	5,165	363	133	1,812	0	Ű	99	0					21,501	43
Af 20 Thika Bhairaw-(1	D 88	2,579	1,237	0	6	107	0	0	12	0					3,940	45
Sub-total	961	25,890	11,486	504	259	3,379	0	0	239	0					41,756	43
Total	1,727	48,332	19,591	607	544	7,492	657	657	261	205					78,346	45

## <With Project Condition>

Сторь	l'arm Land	Paddy	Wheat	Maize	Mustard	Potatoes	Early Polatoes	Late Polatoes	Brosd Bean	Oarden Pea	Summer Vega	Winter Vego.	Greezi Leaf Veg.	Bulb crop	Total Area	Incremental Benefit per ha
Return by crop (NRs./hs)	(ha)	38,730	-	4	•	50,586	36,586	36,586	7,343	•	63,660	105,240	90,931	51,357	('000 NR <sub>1-</sub> )	('000 NRs.)
Kathmandu District																
AK - 04 Biswambhara	92	1,782				1.163	421	421	84		2,928	3,631	2,091	59 l	13,112	143
AK - 05 Boshan	122	2,363				1,543	335	335	157		3,883	4,173	1,664	1,096	15,548	127
AK - 07 Dakshinkali	67	1,297				847	306	306	61		2,133	2,644	1,523	430	9,549	143
AK - 14 Indrayani	101	1,956				1,277	462	462	93		3,215	3,986	2,296	648	14,395	143
AK - 25 Shati Nadi	157	3,040				1,986	718	718	144		4,997	7,022	4,997	605	24,227	154
Sub-total	539	10,438				6,816	2,242	2,242	540		17,156	21,456	12,57i	3,370	76,831	143
Bhaktapur District																
AB - 02 Bldo1	32	620				405	88	88	41		1,019	1,094	436	288	4,078	127
AB - 10 Kalunie	40	775				253	366	0	15 *		1,273	1,579	455	108 4	4,823	121
AB - 12 Kutudhal	43	833				163	393	0	0 #		1,369	1,471	293	0 #	4,522	105
AB - 14 Mahadev Khola	112	2,169				425	1,024	0	76 7		3,565	3, B31	764	533 *	12,388	111
Sub-total	227	4,396				1,246	1,871	88	133		7,225	7,975	1,948	929	25,811	114
Lallipur District																
AL, - 10 Kotkhu	246	4,764				3,111	675	675	316		7,830	8,414	3,355	2,211	31,351	127
AL - 13 Lubhu	130	2,517				822	1.189	0	119		4,138	5,130	1,478	835	16,228	125
Al 19 Thika Bhafraw-(1)	497	9,624				6,285	1,364	1,364	639		15,820	16,999	6,779	4,467	63,340	127
AL - 20 Thika Bhairaw-(H)	B8	1,704				1,113	402	402	81		2,801	3,473	2,000	365	12,542	[43
Sub-total	961	18,610				11,331	3,630	2,441	1,155		30,589	34,016	13,612	8,077	123,462	128
Total	1,727	33,443				19,393	7,743	4,771	1,827		5-1,970	63,447	28,132	12,376	226,103	131

## <Incremental Benefit>

Crops	Farm Land (ha)	Paddy	Wheat	Maize	Mustard	Potato	Potatoca	Barly Potatoes	Late Polatoes	Garden Pea	Summer Vego.	Winter Vege.	Green Leaf Veg.	Bulb crop	Total Area ('000 NRs.)	Incremental Renefit per la (1000 NRs.)
Kathmandu District														.:		
AK - 04 Diswambhara	92	691	-1.126	-61	-31	716	421	421	84	. 0	2,928	3,631	2,091	591	8,971	98
AK - 05 Boshan	122	-1.285	1.170	0	-114	1.049	335	335	157	0	3,883	4,173	1,664	1,096	10,122	83
AK - 07 Dakshinkali	67	706	-244	. 0	-78	766	306	. 306	61	-205	2,133	2,644	1,523	430	6,937	101
AK 14 Indravani	101	-1.004	-1,303	-13	-7	541	462	462	93	0	3,215	3,986	2,296	648	9,375	93
AK - 25 Shali Nadi	157	-1,654	-1,298	0	-26	459	61	61	144	0	4,997	7,022	4,997	605	15,367	98
Sub-rotal	539	-5,343	-5,142	-75	-256	3,530	1,585	1,585	540	-205	17,156	21,456	12,571	3,370	50,772	94
Bhakiapur District						. :/			1 - E							
AD - 02 Didol	32	-337	-423	.0	. 0	275	88	. 88	41	0	1,019	1,094	436	286	2,568	80
AB - 10 Katunja	40	-362	-490	-13	-8	10	366	0	15	0	1,273	1.579	45.5	108	2,933	. 73
AD - 12 Kutudhal .	43	-453	-569	.0	-3	-63	393	. 0	. 0	0	1,369	1,471	29.3	0	2,438	57
All - 14 Mahadev Khola	112	-1.113	-1,482	15	-19	198	1,024	0	54	0	3,565	3,831	764	533	7,341	66
Sub-total	227	-2,265	-2,964	-28	-30	419	1,871	88		0	7,225	7,975	1,948	929	15,280	67
Lalitpur District									•							
Al. · 10 Kolkhu	246	-2,003	-2,685	-98	-99	1,915	675	675	.316	. 0	7,830	8,414	3,355	-2,211	20,506	83
AL - 13 Lubhu	130	-1.098	-1,398	-13	-22	559	1.189	0	-10	. 0	4,138	5,130	1,478	835	10,759	83
AL - 19 Thika Bhairaw-(I	) 497	+3.304	-6,165	-363	-133	4,473	1,364	1,364	. 540	0	15,820	16,999	6,779	4.467	41,839	84
AL - 20 Thika Dhairaw (	I) 88	-875	-1,237	0	-6	1,006	402	402	69	0	2,801	3,473	2,000	565	8,602	98
Sub-total	961	-7,280	-11,486	-504	259	7,952	3,630	2,441	916	0	30,589	34,016	13,612	8,077	81,705	8.5
Total	1,727	-14.888	-19,591	-607	-544	11,902	7,086	4,114	1,566	-205	5-4,970	63,447	28,132	12,376	147,757	86
	31.774	4 4				Potato To	tal t	23,102	Legume 1	1,361		Vegetab	le Total 1	158,925		

Due to the limitation of irrigable area in dry season, Yield is reduced in the 58% of total planted area.
 Due to the limitation of irrigable area in dry season, Yield is reduced in the whole planted area.

Net Farm Income Without and With Project Condition Table 6 - 13

			Withour Project	Project					<u> </u> #	With Project				Incremental Farm Income	т Ілсотс
	Average		Net Crop Income	Ö.	Livestock	Total			Net	Net Crop Income		fiszeetnek	Total	Transmont	Dation
Scheme No. / Name	Farm Size (ha)	Gross Іпсоте	Production Cost	Net Income	Income	Івсопе	Arca	(Extent %)	Gross Р Іпсопіс	Gross Production Net Income Cost Income	1	Income	Income	(NRs / year)	(%)
Kathmandu District															
AK - 04 Biswambhara	0.41	23.800	7,336	16,464	7,150	23,614	Intensive - I Remote * I	(50)	106,654	24,274 15,735	82,380 48,434	7,150	89,530 55,584	65,916 31,970	(279) (138)
AK - 05 Boshan	0.28	16,420	4,822	11,598	2,102	13,700	Intensive - I Remote - I	60	72,836	16,577 10,746	<b>56.25</b> 9 33.077	2,102	58,361 35,179	44,661	(326)
AK - 07 Dakshinkali	0.28	14,942	3,813	11,129	5,783	16,912	Intensive - I Remote - I	(50)	72,836	16,577 10,746	56,259 33,077	5.783	62,042 38,860	45,130 21,948	(267)
AK - 14 Indrayani	0.37	23,806	7,298	16,508	3,096	19,604	Intensive - I Remote - I	(50)	96,249 57,909	21,906	74,343 43,709	3,096 3,096	77,439 46,805	57,835	(295) (139)
AK - 25 Shali Nadi	0.27	22,000	6,695	15,305	1,512	16,817	Intensive - I Remote - I	(70) (30)	70,235 42,258	15,985 10,362	54,250 31,896	1,512	55,762 33,408	38,945 16,591	(52) (98)
Bhaktapur District AB • 02 Bidol	0.19	11,289	3,474	7,815	2,785	10,600	Intensive - I Remote - I	(30)	49,425	11,249	38,176 22,445	2,785	40,961 25,230	30,361 14,630	(286)
AB - 10 Katunje	0.24	14.675	4,490	10,185	2,931	13,116	Intensive - III Remote - II Remote - II (drought	(50) (21) ught (29)	50,731 36,723 32,371	10,988 9,211 9,211	39.743 27,512 23,160	2,931 2,931 2,931	42,674 30,443 26,091	29,558 17,327 12,975	(225) (132) (99)
AB - 12 Kurudhal	0.30	18.516	5,686	12,830	5,957	18,787	Intensive - III Remote - II Remote - II (drought	(30) (0) ught (70)	63,414 45,903 40,463	13,735 11,513 11,513	49,679 34,390 28,950	5,957 5,957 5,957	55,636 40,347 34,907	36,849 21,560 16,120	(196) (115) (88)
AB - 14 Mahadev Khola	0.26	14,649	4,513	10,136	1.778	11,914	Intensive - III Remote - II Remote - II (drought	(30) (37) ught (33)	54,959 39,783 35,068	11,904 9,978 9,978	43,055 29,805 25,090	1,778 1,778 1,778	44,833 31,583 26,868	32,919 19,669 14,954	(276) (165) (126)
Lalitpur District AL - 10 Kotkhu	0.19	10,882	3,295	7.587	587	8,174	Intensive - I Remote - I	(30)	49,425 29,737	11,249	38,176 22,445	587	38,763 23,032	30,589 14,858	(374)
AL-13 Lubhu	0.23	12,470	3,741	8,729	0	8,729	Intensive - III Remote - II	(50)	48,617 35,193	10,530	38.087 26,366	00	38,087 26,366	29,358 17,637	(336)
AL - 19 Thika Bhairaw-(f) 0.25	D 025	13,832	1,289	9,543	629	10,172	Intensive - I Remote - I	ê ê	65,033 39,127	14,801 9,594	50,232 29,533	629	50,861 30,162	40,689	(400) (197)
AL-20 Thika Bhairaw-(II 0.13	п 0.13	7,159	2,228	4,931	328	5,259	Intensive - I Remote - I	(50)	33,817 20,346	7,697	26,120 15,357	328	26,448 15,685	21,189 10,426	(403) (198)
			100												

Remark: "Increment ratio between without and with cond

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (1/13)

Scheme		AK-04 Biswambha	ra		
Holding Size (ha)		0.41			
No. of Family		5.9			
		Without Project *	W	ith Project	Remote
		Without Project	Intensive	Remote	(drought)
Farm Income		02.800	106,650	64,170	
Gross Farm Income		23,800	0.205	0,205	
Paddy	Planted Area (ha)	0,369	1,066	1,066	
	Production	1,561	9,897	9,897	
W- 2	Gross Income	14,494	7,027	7,071	
Wheat	Planted Area (ha)	0.303 604			
	Production				
	Gross Income	4,976 0.041			
Maize	Planted Area (ha)	60			
	Production	463			
	Gross Income	0.041			
Mustard	Planted Area (ha)	25			
	Production Gross Income	415			
B 4-1	Planted Area (ha)	0.049	0.103	0.103	
Potatoes	Production	493	1,333	1,333	
	Gross Income	3,451	9,328	9,328	
E,L. Potatoes	Planted Area (ha)	J, TJ 1	0.205	······································	
E.L. Polatoes	Production		2,256		
	Gross Income		15,786		
Legumes	Planted Area (ha)			0.103	
Legumes	Production Production	`		154	
	Gross Income			1,845	
Vegetables	Planted Area (ha)		0.615	0.410	
v egembles	Production		9,840	5,945	
	Gross Income		71,643	43,099	
Livestock Income		7,150	7,150	7,150	
Litonton income	Total Farm Income	30,950	113,800	71,320	
Non Farm Income	and the second s	19,790	19,790	19,790	
	Gross Family Income	50,740	133,590	91,110	
Production Cost (Far	rm Expense)	7,340	24,274	15,735	
Living Expense **		30,680	35,280	35,280	
	Net Reserve	12,720	74,036	40,095	
			. 007	1 007	
	onthly Income	717	1,887	1,287	
	tio between without and v		(163%)	(80%)	
Net Farm Inco		43,400	109,316	75,375	
(Increment ra	tio between without and v	vith)	(152%)	(74%)	

<sup>\*:</sup> Parm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Farm Income = Gross Farm Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (2/13)

Scheme		AK-05 Boshan		***************************************	(Unit : NRs.
Holding Size (ha)		0.28	The second secon		
No. of Family		5.6			
			V	Vith Project	
		Without Project *	Intensive	Remote	Remote (drought)
Farm Income					<u> </u>
Gross Farm Incom	ne	16,420	72,840	43,820	
Paddy	Planted Area (ha)	0.280	0.140	0.140	
	Production	1,184	728	728	
	Gross Income	10,998	6,759	6,759	***************************************
Wheat	Planted Area (ha)	0.162			
	Production	323			
	Gross Income	2,663			
Maize	Planted Area (ha)				
	Production				
	Gross Income				
Mustard	Planted Area (ha)	0.078			
	Production	47			
	Gross Income	794		***	
Potatoes	Planted Area (ha)	0.028	0.070	0.070	
	Production	281	910	910	
- P. I. D	Gross Income	1,964	6,370	6,370	
E.L. Potatoes	Planted Area (ha)		0.140		
	Production		1,540		
Lagrana	Gross Income		10,780	0.050	
Legumes	Planted Area (ha) Production			0.070	
	Gross Income			105	
Vegetables	Planted Area (ha)		0.400	1,260	
v egetautes	Production		0.420	0.280	
	Gross Income		6,720	4,060	
Livestock Income	Gross meditic	2,100	48,927	29,434	
	Total Farm Income	18,520	2,100 74,940	2,100	
Non Farm Income	2 0 100 X 101 101 101 101 101 101 101 101	18,560		45,920	
	ross Family Income	37,080	18,560 93,500	18,560 64,480	
Production Cost (Fari	n Expense)	4,820	16,577	10,746	
Living Expense **		28,860	33,190	33,190	
	Net Reserve	3,400	43,733	20,544	
Per Capita Mor		552	1,391	960	
	between without and wit	h)	(152%)	(74%)	
Net Farm Incom	ere and the second	32,260	76,923	53,734	
(Increment ratio	between without and wit	h)	(138%)	(67%)	

<sup>\*:</sup> Farm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Farm Income = Gross Farm Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (3/13)

Scheme		AK-07 Dakshinkali			
Holding Size (ha)		0.28			
No. of Family		5.9			
		Without Project *	W	ith Project	Remote
		Without Project	Intensive	Remote	(drought)
Farm Income			770 040	42 930	
Gross Farm Income		14,940	72,840	43,820	
Paddy	Planted Area (ha)	0.280	0.140	0.140 728	=
	Production	1,184	728	6,7 <b>5</b> 9	
	Gross Income	10,998	6,759	0,739	
Wheat	Planted Area (ha)	0.062			
	Production	123			
A A A STATE OF THE	Gross Income	1,010			
Maize	Planted Area (ha)				
	Production				
and the same and t	Gross Income	0.000			
Mustard	Planted Area (ha)	0,098			
	Production	59			
	Gross Income	993	0.070	0.070	
Potatoes	Planted Area (ha)	0.008	910	910	
	Production	84	6,370	6,370	•
	Gross Income	589	0.140	0,570	
E.L. Potatoes	Planted Area (ha)		1,540		
	Production		10,780		
	Gross Income	0.104	10,700	0.070	
Legumes	Planted Area (ha)	84	•	105	
	Production	1,351		1,260	
XI	Gross Income Planted Area (ha)	1,551	0,420	0.280	
Vegetables	Production	,	6,720	4,060	
	Gross Income		48,927	29,434	
Livestock Income	Oross meome	5,780	5,780	5,780	
Livestock income	Total Farm Income	20,720	78,620	49,600	
Non Farm Income	10th 1 th Income	19,770	19,770	19,770	
	Gross Family Income	40,490	98,390	69,370	-
Production Cost (Far		3,810	16,577	10,746	
Living Expense **		30,410	34,970	34,970	
	Net Reserve	6,270	46,843	23,654	
			1.000	980	200000000000000000000000000000000000000
Per Capita Mo		572	1,390	960 (71%)	
	io between without and v		(143%)	58,624	
Net Farm Inco		36,680	81,813	(60%)	1 1
(Increment rat	tio between without and s	vith)	(123%)	(0070)	

<sup>\*:</sup> Parm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Betimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Farm Income = Gross Farm Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (4/13)

Scheme		AK-14 Indrayani			(Oint , INKs.)
Holding Size (ha)		0.37			
No. of Family		5.7			
			\	Vith Project	
		Without Project *	Intensive	Remote	Remote (drought)
Farm Income				•	
Gross Farm Incom		23,810	96,250	57,910	
Paddy	Planted Area (ha)	0.363	0.185	0.185	
	Production	1,534	962	962	
WALL THE STATE OF	Gross Income	14,243	8,932	8,932	TRIA. 17.
Wheat	Planted Area (ha)	0.289			
	Production	574			
	Gross Income	4,733			- 171 872
Maize	Planted Area (ha)	0.007			
	Production	11			
	Gross Income	84			
Mustard	Planted Area (ha)	0.007			
	Production	4			
**	Gross Income	75			
Potatoes	Planted Area (ha)	0.067	0.093	0.093	
	Production	667	1,203	1,203	
	Gross Income	4,671	8,418	8,418	
E.L. Potatoes	Planted Area (ha)		0.185		
	Production		2,036		
T	Gross Income		14,246	0.000	····
Legumes	Planted Area (ha) Production			0.093	
	Gross Income			139	
Vegetables	Planted Area (ha)		0 555	1,665	
vegetables	Production		0.555	0.370	
	Gross Income		8,880 64,654	5,365	
Livestock Income	Oloss filcome	3,100		38,894	
	Total Farm Income	26,910	3,100 99,350	3,100	<del>-</del>
Non Farm Income	10th 1 that Theome	25,800	<del></del>	61,010	
	ross Family Income	52,710	25,800 125,150	25,800 86,810	
Production Cost (Fari	<u>, , , , , , , , , , , , , , , , , , , </u>	7,300	21,906	14,200	
Living Expense **		29,640	34,090	34,090	<u> </u>
•	Net Reserve	15,770	69,154	38,520	
		,	U2,13 <sup>-7</sup>	J0,J2U	
Per Capita Mor	thly Income	771	1,830	1,269	Sec. 10.000.000.0000.000.000
(Increment ratio	between without and wi	th)	(137%)	(65%)	
Net Farm Incom	***************************************	45,410	103,244	72,610	
(Increment ratio	between without and wi		(127%)	(60%)	4.

<sup>\*:</sup> Farm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Farm Income = Gross Farm Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (5/13)

Scheme		AK-25 Shali Nadi			
Holding Size (ha)	A STATE OF THE STA	0.27			
No. of Family		6.4			
		187741 Thurstoot #	W	Vith Project	Remote
		Without Project *	Intensive	Remote	(drought)
Farm Income			-0.010	10.000	
Gross Farm Income		20,430	70,240	42,260	
Paddy	Planted Area (ha)	0,270	0.135	0.135	
	Production	1,142	702	702	
	Gross Income	10,606	6,518	6,518	
Wheat	Planted Area (ha)	0.135			
	Production	269			
	Gross Income	2,214			
Maize	Planted Area (ha)				
	Production				
	Gross Income		45 Marie 1997		
Mustard	Planted Area (ha)	0.014			
	Production	8			
	Gross Income	137			**************************************
Potatoes	Planted Area (ha)	0.065	0.068	0.068	
•	Production	649	878	878	
	Gross Income	4,545	6,143	6,143	,
E.L. Potatoes	Planted Area (ha)	0.076	0,135		
	Production	643	1,486		
	Gross Income	2,925	10,396		
Legumes	Planted Area (ha)			0.068	
<del></del>	Production	`		101	
	Gross Income		- A CONTROL OF THE PROPERTY OF	1,215	
Vegetables	Planted Area (ha)		0.405	0.270	
•	Production		6,480	3,915	
	Gross Income		47,180	28,382	
Livestock Income		1,510	1,510	1,510	
	Total Farm Income	21,940	71,750	43,770	
Non Farm Income		29,400	29,400	29,400	
	iross Family Income	51,340	101,150	73,170	
Production Cost (Far	m Expense)	6,700	15,985	10,362	
Living Expense **		32,990	37,940	37,940	
-	Net Reserve	11,650	47,225	24,868	
			10.5	nes.	
Per Capita Mo		668	1,317	953	
	io between without and v		(97%)	(43%)	
Net Farm Inco		44,640	85,165	62,808	
(Increment rat	io between without and v	vith)	(91%)	(41%)	

<sup>\*:</sup> Parm Survey, IICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Farm Income = Gross Farm Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (6/13)

Scheme		AB-02 Bidol			(Unit: NRs.)
Holding Size (ha)		0.19	.,		
No. of Family		6.0			
140. Of Parinty		0.0	V	Vith Project	· · · · · · · · · · · · · · · · · · ·
		Without Project *	Intensive	Remote	Remote (drought)
Farm Income			<del></del>		(drought)
Gross Farm Income	e	11,290	49,430	29,740	
Paddy	Planted Area (ha)	0.190	0.095	0.095	
	Production	804	494	494	
	Gross Income	7,463	4,587	4,587	
Wheat	Planted Area (ha)	0.152			
	Production	302			
	Gross Income	2,493			
Maize	Planted Area (ha)				
	Production				
	Gross Income				
Mustard	Planted Area (ha)				
	Production				
	Gross Income				
Potatoes	Planted Area (ha)	0.019	0.048	0.048	
	Production	190	618	618	
	Gross Income	1,333	4,323	4,323	
E.L. Potatoes	Planted Area (ha)		0.095		
	Production		1,046		
	Gross Income		7,316		
Legumes	Planted Area (ha)			0.048	
	Production			71	
	Gross Income			855	
Vegetables	Planted Area (ha)		0,285	0.190	
	Production		4,560	2,755	
	Gross Income		33,201	19,973	
Livestock Income		2,790	2,790	2,790	
· · · · · · · · · · · · · · · · ·	Total Farm Income	14,080	52,220	32,530	
Non Farm Income	1	20,270	20,270	20,270	
Gre	oss Family Income	34,350	72,490	52,800	
Production Cost (Farm	Expense)	3,470	11,249	7,292	
Living Expense **		30,300	35,570	35,570	
	Net Reserve	580	25,671	9,938	
Per Capita Mont	•	477	1,007	733	
	between without and wi		(111%)	(54%)	
Net Farm Incom		30,880	61,241	45,508	
(Increment ratio	between without and wi	th)	(98%)	(47%)	

<sup>\*:</sup> Farm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Farm Income = Gross Farm Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (7/13)

Scheme		AB-10 Katunje			
Holding Size (ha)		0.24			
No. of Family		5.9			
			V	Vith Project	T)
		Without Project *	Intensive	Remote	Remote (drought)
Farm Income		11.600	50.720	36,720	33,180
Gross Farm Income		14,680	50,730	0.120	0.120
Paddy	Planted Area (ha)	0.228	0.120 624	624	624
	Production	964	5,794	5,794	5,794
	Gross Income	8,956	3,794	3,794	3,734
Wheat	Planted Area (ha)	0.178			
	Production	353			
And and the second	Gross Income	2,913			
Maize	Planted Area (ha)	0.012			
	Production	18			
	Gross Income	135	· · · · · · · · · · · · · · · · · · ·		
Mustard	Planted Area (ha)	0.014			
	Production	9			
	Gross Income	146	0.060		
Potatoes	Planted Area (ha)	0.036	780		
	Production	361	5,460		
	Gross Income	2,525	0.060	0.060	0.006
E.L. Potatoes	Planted Area (ha)		660	660	660
	Production		` 4,620	4,620	4,620
	Gross Income	AND MAKEUR WITH THE PROPERTY AND ADDRESS OF THE PROPERTY OF TH	7,020	0.060	0.060
Legumes	Planted Area (ha)			90	53
	Production			1,080	639
	Gross Income		0,300	0.240	0.240
Vegetables	Planted Area (ha)		4,560	3,480	2,909
	Production		34,858	25,229	22,128
	Gross Income	2,930	2,930	2,930	2,930
Livestock Income	Total Farm Income	17,610	53,660	39,650	36,110
N. E. Yannan	Total Parm Income	25,890	25,890	25,890	25,890
Non Farm Income	cross Family Income	43,500	79,550	65,540	62,000
Production Cost (Far		4,490	10,988	9,211	9,211
Living Expense **		29,890	34,370	34,370	34,370
	Net Reserve	9,120	34,192	21,959	18,419
					0.00
Per Capita Mo	onthly Income	614	1,124	926	876
(Increment rat	io between without and v		(83%)	(51%)	(43%)
Net Farm Inco	me ***	39,010	68,562	56,329	52,789
	io between without and v	vith)	(76%)	(44%)	(35%)

<sup>\*:</sup> Farm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Farm Income = Gross Farm Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (8/13)

Scheme		AB-12 Kutudhal		······································	(Unit : NRs,
Holding Size (ha)		0.30	THE THE TAXABLE PROPERTY.		
No. of Family		5.6			
			,	Vith Project	
		Without Project *	Intensive	Remote	Remote (drought)
Farm Income					
Gross Farm Incon	ne	18,520	63,410	45,900	41,480
Paddy	Planted Area (ha)	0.300	0.150	0.150	0.150
·	Production	1,269	780	780	780
***************************************	Gross Income	11,784	7,242	7,242	7,242
Wheat	Planted Area (ha)	0.240 -			
	Production	478			
	Gross Income	3,936			
Maize	Planted Area (ha)				
	Production				
	Gross Income				
Mustard	Planted Area (ha)	0.060			
	Production	4			
	Gross Income	61			
Potatoes	Planted Area (ha)	0.039	0.075		
	Production	391	975		
	Gross Income	2,735	6,825		
E.L. Potatoes	Planted Area (ha)		0.075	0.075	0.075
	Production		825	825	825
	Gross Income		5,775	5,775	5,775
Legumes	Planted Area (ha)			0.075	0.075
	Production			113	67
	Gross Income			1,350	799
Vegetables	Planted Area (ha)		0.375	0.300	0.300
	Production		5,700	4,350	3,637
	Gross Income		43,572	31,536	27,660
Livestock Income		5,960	5,960	5,960	5,960
	Total Farm Income	24,480	69,370	51,860	47,440
Non Farm Income		18,560	18,560	18,560	18,560
Gi	ross Family Income	43,040	87,930	70,420	66,000
Production Cost (Farr	n Expense)	5,690	13,735	11,513	11,513
Living Expense **		31,520	36,250	36,250	36,250
	Net Reserve	5,830	37,945	22,657	18,237
Per Capita Mon	-	640	1,308	1,048	982
	between without and wi		(104%)	(64%)	(53%)
Net Farm Incon		37,350	74,195	58,907	54,487
(Increment ratio	between without and wi	th)	(99%)	(58%)	(46%)

<sup>\*:</sup> Farm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Parm Income = Gross Parm Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (9/13)

Scheme		AB-14 Mahadev	Khola		
Holding Size (ha)		0.26		A CONTRACTOR OF THE PROPERTY O	
No. of Family		5.9			
			V	Vith Project	
		Without Project *	Intensive	Remote	Remote (drought)
Farm Income					
Gross Farm Incom-	e	14,650	54,960	39,780	35,950
Paddy	Planted Area (ha)	0.255	0.130	0.130	0.130
	Production	1,078	676	676	676
	Gross Income	10,009	6,276	6,276	6,276
Wheat	Planted Area (ha)	0.208			
	Production	414			
	Gross Income	3,411			
Maize	Planted Area (ha)	0.005			
	Production	8			
NOTITION AND AND AND AND AND AND AND AND AND AN	Gross Income	59		,,	
Mustard	Planted Area (ha)	0.013			
	Production	8			
The state of the s	Gross Income	132	0.045		,
Potatoes	Planted Area (ha)	0.013	0.065		
	Production	130	845		
	Gross Income	912	5,915	0.065	0.065
E.L. Potatoes	Planted Area (ha)		0.065 715	715	715
	Production			5,005	5,005
	Gross Income	0.000	5,005	0,065	0.065
Legumes	Planted Area (ha)	0.008		98	58
	Production	11		1,170	693
	Gross Income	127	0.325	0.260	0.260
Vegetables	Planted Area (ha)		4,940	3,770	3,152
	Production		37,762	27,331	23,972
T to a to all To a single	Gross Income	1,780	1,780	1,780	1,780
Livestock Income	Total Farm Income	16,430	56,740	41,560	37,730
Non Town Income	10ttt Litti turome	19,260	19,260	19,260	19,260
Non Farm Income	iross Family Income	35,690	76,000	60,820	56,990
Production Cost (Far	m Expense)	4,510	11,904	9,978	9,978
Living Expense **		29,900	37,840	37,840	37,840
# # # # # # # # # # # # # # # # # # #	Net Reserve	1,280	26,256	13,002	9,172
Per Capita Mo	* .	504	1,073	859	805
•	io between without and w		(113%)	(70%)	(60%)
Net Farm Inco		31,180	64,096	50,842	47,012
(Increment rat	io between without and w	rith)	(106%)	(63%)	(51%)

<sup>\*:</sup> Parm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Farm Income = Gross Farm Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (10/13)

Scheme AL-10 Kotkhu
Holding Size (ha) 0.19
No. of Family.

No. of Family		5,3						
			1	With Project				
		Without Project *	Intensive	Remote	Remote			
Farm Income					(drough			
Gross Farm Incom	ie	10,880	49,430	29,740				
Paddy	Planted Area (ha)	0.175	0.095	0.095				
	Production	739	494	494				
	Gross Income	6,866	4,587	4,587				
Wheat	Planted Area (ha)	0.125						
	Production	250						
	Gross Income	2,057						
Maize	Planted Area (ha)	0.011						
	Production	17						
	Gross Income	129						
Mustard	Planted Area (ha)	0.023						
	Production	14						
	Gross Income	231						
Potatoes	Planted Area (ha)	0.023	0.048	0.048				
	Production	228	618	618				
	Gross Income	1,599	4,323	4,323				
E.L. Potatoes	Planted Area (ha)		0.095	1,525	····			
	Production		1,046					
	Gross Income		7,316					
Legumes	Planted Area (ha)		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.048				
	Production			71				
	Gross Income			855				
Vegetables	Planted Area (ha)		0.285	0.190				
	Production		4,560	2,755				
	Gross Income		33,201	19,973				
Livestock Income		590	590	590				
	otal Farm Income	11,470	50,020	30,330				
on Farm Income		19,750	19,750	19,750				
Gre	oss Family Income	31,220	69,770	50,080				
roduction Cost (Farm	Expense)	3,300	11,249	7,292				
iving Expense **		26,860	33,980	33,980				
	Net Reserve	1,060	24,541	8,808				
				,				
Per Capita Mont		491	1,097	787				
(Increment ratio	between without and wit	<b>h)</b>	(123%)	(60%)	1.			
Net Farm Income	3 ***	27,920	58,521	42,788				
(Increment ratio	between without and with	LS and the second	(110%)	(53%)				

<sup>\*:</sup> Farm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Farm Income = Gross Farm Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (11/13)

Scheme		AL-13 Lubhu						
Holding Size (ha)		0.23						
No. of Family		6.2						
			1	With Project				
		Without Project *	Intensive	Remote	Remote (drought)			
Farm Income								
Gross Farm Incom	e	12,470	48,620	35,190				
Paddy	Planted Area (ha)	0.214	0.115	0.115				
	Production	905	598	598				
	Gross Income	8,402	5,552	5,552				
Wheat	Planted Area (ha)	0.150						
	Production	298						
	Gross Income	2,452						
Maize	Planted Area (ha)	0.012						
	Production	17						
	Gross Income	130						
Mustard	Planted Area (ha)	0.012						
	Production	7						
	Gross Income	116	***	inda ing andir radarpira arpiran a radarah 14° km sa 1 km sa 1				
Potatoes	Planted Area (ha)	0.012	0.058					
	Production	115	748					
	Gross Income	807	5,233					
E.L. Potatoes	Planted Area (ha)		0.058	0.058	•			
	Production		633	633				
	Gross Income		4,428	4,428				
Legumes	Planted Area (ha)	0.035		0.058				
	Production	47		86				
***************************************	Gross Income	563		1,035				
Vegetables	Planted Area (ha)		0.288	0.230				
	Production		4,370	3,335				
	Gross Income		33,405	24,178				
Livestock Income		!						
	Total Farm Income	12,470	48,620	35,190	an ann e composition and and accommen			
Non Farm Income		23,100	23,100	23,100	er mann von Mannerer frei handen dien are			
- G	ross Family Income	35,570	71,720	58,290				
Production Cost (Far	m Expense)	3,740	10,530	8,827				
Living Expense **		27,640	31,790	31,790				
	Net Reserve	4,190	29,400	17,673				
Per Capita Mor	nthly Income	478	964	783	· · · · · · · · · · · · · · · · · · ·			
(Increment rati	o between without and with	)	(102%)	(64%)	· · · · · · · · · · · · · · · · · · ·			
Net Farm Inco	me ***	31,830	61,190	49,463				
(Increment rati	o between without and with)		(92%)	(55%)				

<sup>\*:</sup> Farm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Fann Income = Gross Fann Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (12/13)

Scheme		AL-19 Thika Bha	airaw-(I)		(OIII : NR8.)
Holding Size (ha)		0.25		THE PARTY OF THE P	-V.V
No. of Family		5.8			
			V	Vith Project	
		Without Project *	Intensive	Remote	Remote (drought)
Farm Income					
Gross Farm Incom	e	13,830	65,030	39,130	
Paddy	Planted Area (ha)	0.218	0.125	0.125	
	Production	920	650	650	
	Gross Income	8,543	6,035	6,035	
Wheat	Planted Area (ha)	0.188			
	Production	373	•		
	Gross Income	3,075			
Maize	Planted Area (ha)	0.028			
	Production	40			
	Gross Income	310			
Mustard	Planted Area (ha)	0.020			
	Production	12			
	Gross Income	203			
Potatoes	Planted Area (ha)	0.023	0.063	0.063	
	Production	225	813	813	
	Gross Income	1,578	5,688	5,688	
E.L. Potatoes	Planted Area (ha)		0.125		
	Production		1,376		
	Gross Income		9,626		TO STATE OF THE ST
Legumes	Planted Area (ha)	0.008		0.063	
	Production	10		94	
	Gross Income	122		1,125	
Vegetables	Planted Area (ha)		0.375	0.250	
	Production		6,000	3,625	
	Gross Income		43,685	26,280	
Livestock Income		630	630	630	
	Total Farm Income	14,460	65,660	39,760	
Non Farm Income		21,610	21,610	21,610	
	ross Family Income	36,070	87,270	61,370	
Production Cost (Farn	n Expense)	4,290	14,801	9,594	
Living Expense **		30,740	36,980	36,980	
	Net Reserve	1,040	35,489	14,796	
Per Capita Mon	•	518	1,254	882	
	between without and wi		(142%)	(70%)	
Net Farm Incon		31.780	72,469	51,776	
(Increment ratio	between without and wi	th)	(128%)	(63%)	

<sup>\*:</sup> Farm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Farm Income = Gross Farm Income - Production Cost.

Table 6 - 14 Farm Budget of Typical Farm in Each Scheme (13/13)

Scheme		AL-20 Thika Bhair	aw-(II)		
Holding Size (ha)		0.13			
No. of Family		5.9			
			V	Vith Project	
		Without Project *	Intensive	Remote	Remote (drought)
Farm Income					
Gross Farm Income	<u> </u>	7,160	33,820	20,350	
Paddy	Planted Area (ha)	0.127	0.065	0.065	
	Production	539	338	338	
	Gross Income	5,004	3,138	3,138	
Wheat	Planted Area (ha)	0.111			
	Production	220			
	Gross Income	1,812			
Maize	Planted Area (ha)				
	Production				
	Gross Income				
Mustard	Planted Area (ha)	0.003			
	Production	2			
	Gross Income	26			
Potatoes	Planted Area (ha)	0.004	0.033	0.033	
	Production	39	423	423	
	Gross Income	274	2,958	2,958	
E.L. Potatoes	Planted Area (ha)		0.065		
	Production		716		
	Gross Income		5,006	^ ^ ^	
Legumes	Planted Area (ha)	0.003		0.033	
	Production	4		49	
gar	Gross Income	42	0.105	585	
Vegetables	Planted Area (ha)		0.195	0.130	
	Production		3,120	1,885	
	Gross Income	220	22,716	13,666	
Livestock Income		330	330	20,680	<u> </u>
	Total Farm Income	7,490	34,150	27,100	
Non Farm Income		27,100	27,100		
G	ross Family Income	34,590	61,250	47,780	
Production Cost (Far	m Expense)	2,230	7,697	4,989	:
Living Expense **		30,980	37,620	37,620	
	Net Reserve	1,380	15,933	5,171	
Per Capita Mo	nthly Income	489	865	675	
and the second of the second o	o between without and w	ith)	(77%)	(38%)	
Net Farm Inco	me ***	32,360	53,553	42,791	
(Increment rati	o between without and w	rith)	(65%)	(32%)	

<sup>\*:</sup> Farm Survey, JICA Study Team, 1994.

<sup>\*\*:</sup> Estimated 100 % of Present Situation for "Without Project Condition" and 115 % of Present situation for "With Project Condition".

<sup>\*\*\*:</sup> Net Farm Income = Gross Farm Income - Production Cost.

Table 6 - 15 Farm Budget of Typical Farm in the Project Areas

									·			(Uni	t:NR
Scheme No.	AK-04		AK-07	AK-I4		AB-02	AB-1()	AB-12	AB-14	AL-10	AL-13	AL-19	AL-
Farm Size	0.41	0.28	0.28	0.37	0.27	0.19	0.24	0.30	0.26	0.19	0.23	0.25	0.
Ave. Famly No.	5,9	5.6	5.9	5.7	6.4	6,0	5.9	5.6	5.9	5.3	6.2	5.8	
Without Project													
Farm Income	30,950	18,520	20,720	26,910	21,940	14,080	17,610	24,480	16,430	11,470	12,470	14,460	7,4
Non Farm Income	19,790	18,560	19,770	25,800	29,400	20,270	25,890	18,560	19,260	19,750	23,100	21,610	27,1
Total Income	50,740	37,080	40,490	52,710	51,340	34,350	43,500	43,040	35,690	31,220	35,570)	36,070	34,
Farm Expense	7,340	4,820	3,810	7,300	6,700	3,470	4,490	5,690	4,510	3,300	3,740	4,290	2,3
Living Expense	30,680	28,860	30,410	29,640	32,990	30,300	29,890	31,520	29,900	26,860	27,640	30,740	30,9
Reserve	12,720	3,400	6,270	15,770	11,650	580	9,120	5,830	1,280	1,060	4,190	1,040	1,3
Vith Project	· coccertances w												
Intensive area													
Farm Income	113,800	74,940	78,620	99,350	71,750	52,220	53,660	69,370	56,740	50,020	48,620	65,660	34,
Non Farm Income	19,790	18,560	19,770	25,800	29,400	20,270	25,890	18,560	19,260	19,750	23,100	21,610	27,1
Total Income	133,590	93,500	98,390	125,150	101,150	72,490	79,550	87,930	76,000	69,770	71,720	87,270	61,
Farm Expense	24,274	16,577	16,577	21,906	15,985	11,249	10,988	13,375	11,904	11,249	10,530	14,801	7,0
Living Expense	35,280	33,190	34,970	34,090	37,940	35,570	34,370	36,250	37,840	33,980	31,790	36,980	37,6
Reserve	74,036	43,733	46,843	69,154	47,225	25,671	34,192	38,305	26,256	24,541	29,400	35,489	15,9
(Increment)	61,316	40,333	40,573	53,384	35,575	25,091	25,072	32,475	24,976	23,481	25,210	34,449	14,5
D			2,390	5.598 / 3195		MP781.20	53-86 <b>3-7</b> 8-74	]	NS. 31046/54.1.0	362850.21.24	eny natra isan hasa	487E01800A3	380036
Remote area Farm Income	71 200	46.000	40.600	<b>61.010</b>									
	71,320	45,920	49,600	61,010	43,770	32,530	39,650	51,860	41,560	30,330	35,190	39,760	20,6
Non Farm Income	19,790	18,560	19,770	25,800	29,400	20,270	25,890	18,560	19,260	19,750	23,100	21,610	27,1
Total Income			69,370			52,800	65,540	70,420	60,820	50,080	58,290	61,370	47,7
Farm Expense	15,735	10,746			10,362	7,292	9,211	11,513	9,978	7,292	8,827	9,594	4,9
Living Expense	35,280	33,190	34,970	34,090	37,940	35,570	34,370	36,250	37,840	33,980	31,790	36,980	37,6
Reserve	40,095	20,544	23,654	38,520	24,868	9,938	21,959	22,657	13,002	8,808	17,673	14,796	5,1
(Increment)	27,375	17,144	17,384	22,750	13,218	9,358	12,839	16,827	11,722	7,748	13,483	13,756	3,7
<b>h</b> 22-22-23-24-4	4.52485.25	gwigajjejki		A Mariellera	ATTENDED SE	89 88 Digital	Parchia seemini	20020-1526°C	970a - S 98a)	väitete sata	os (Short Sübares	pi Madeets 25	.gegd.V
Remote area (dro Farm Income	ugnt)						36.110	47,440	37 730			20,000,000	
Non Farm Income							25,890		19,260				
Total Income									•				
Farm Expense		,,,,,	<del></del>				62,000		56,990	·····			
Living Expense								11,513	9,978				
									37,840				
Reserve								18,237	9,172				
Increment)							9,299	12,407	7,892				