

## **ANNEX D**

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## Household Survey Questionnaire

## Household Survey Questionnaire

Development Region : District :  
 VDC/ Municipality: Ward No. : Village :  
 Date of Interview: Name of Interviewee :  
 Name of Interviewer:

### 100. General Information/Demography

110 Name of Household head:	120 Sex:
130 Caste:	150 Religion:

Sex: 121 Male 122 Female

Caste: 131 Brahmin 132 Chetri 133 Magar 134 Sanyashi 135 Bote  
 136 Kumal 137 Kami 138 Damai 139 Sarki 140 Others

Religion: 151 Hindu 152 Muslim 153 Buddhist 154 Christian 155 Others

### 200 How long your family is residing in this locality?

210 Ancestral (before two generation) 220 Only a generation ago

230 Recently Migrated (before 30 years)

240 If it is recently migrated then :

241 Migrated District: 242 Migrated:

243 Migrated Village:

### 300 Family Structure

310 Nuclear Family 320 Joint Family

330 Information about family members along with household owner:

S.N	Name of family Members	Sex (1)	Age	Relation to family head	Education (2)	Occupation (3)	Skill / Training (4)

Note : 1. Sex: 10. Male – 11. Female

**2. Education (above 6 yrs of age)**

22. Illiterate  
 23. Can only read and write  
 24. Primary (1-5class)  
 25. Lower secondary ( 6-8 class)  
 26. Higher Secondary (9-10)  
 27. SLC  
 28. Intermediate  
 29. Bachelor  
 30. Master

**3. Occupation**

31. Agriculture  
 32. Business  
 33. Job/Services  
 34. Labour  
 35. Student  
 36. Unable to work  
 37. Others (Specify)

**4. Skill / Training above 15 yrs of age**

38. Mason  
 39. Carpenter  
 40. Tailor  
 41. Blacksmith  
 42. Shoemaker  
 43. Driver  
 44. Construction  
 45. Weaving Doko/Nanglo  
 46. Hetuada Cement Employee  
 47. NEA Employee  
 48. Other (Specify)

**400. If some of your family members have gone outside for employment:**

S. N	Relation to family head	Inside country destination	Abroad Destination	Average monthly income (Rs.)
1				
2				
3				

**500. Agriculture practices and livestock raising:**

510 Do You have land under your family ownership Yes No

520 If you own land give the following details of your land ownership and tenancy type:

S. N	Land Type	Own land operated				Rented- in				Rented-Out				Govt. land			
		R	A	P	D	R	A	P	D	R	A	P	D	R	A	P	D
	Khet																
	Bari																
	Kharbari																
	Forest																
	Orchard																
	Total																

Note: R = Ropani, A = Ana , P = Pisa, D = Dam

530 Main crops their coverage area, productivity and income from the sale of them

S. N.	Main Crops	Cropped Area				Production (in KG)	Unit Price Rs.	Total Rs.	Sold quantity Kg	Income from sale Rs
		R	A	P	D					
<b>A</b>	<b>Bari</b>									
	Upland paddy									
	Maize									
	Wheat									
	Millet									
	Pulses									
	Oilseed									
	Potato									
	Sugarcane									
	Other (specify)									
<b>B</b>	<b>Khet</b>									
	Paddy									
	Wheat									
	Maize									
	Potato									
	Pulses									
	Oilseed									
	Winter vegetable									
	Other (specify)									

540 Is your own production enough for your family? 541 Yes 542 No

550 If not, for how many months is it deficit?

551 3 months 552 6 months 553 9 months

560 How do you meet your food requirement for the deficit months?

561 Wage earning 562 Loan 563 Service

564 borrowing 565 Selling of fixed assets 566 Selling of current assets

567 Other (specify)

570 How much you spend for deficit food in last year? (Give in Rs)

580 Have you taken loan from any source? 581 Yes 582 No

590 If you have, provide the following details?

Name of source	Amount of Loan	Interest /Annum
591 Agric. Development Bank		
592 Nepal Bank Limited		
593 Rastriya Banijya Bank		
594 Cooperative organization		
596 Micro credit		
597 Local money lender		
598 Relatives/Neighbours		
599 Others (Specify)		

**600 Raising of Livestock and Poultry Birds**

610 Give the type and numbers of animals and birds and income from the sale of them:

code	Type of livestock	Local	Improved	Total	Last years' income from the sale
611	Cow/Bullock				
612	Buffalo				
613	Goat/Sheep				
614	Birds (chicken, duck, penguin etc.)				
615	Others (specify)				

620 Last years' income from the sale of livestock products

Code	Type of Production (1)	Unit (2)	Sold Quantity (3)	Total Income (4)(Rs.)
621	Milk/Khuwa			
622	Ghee			
623	Egg			
624	Wool			
625	Hide			
626	Others (Specify)			

630 Have you planted fruit trees in your farm land?

631 Yes

632 No

640 If you have planted fruit trees then give details

Types of fruit trees (1)	Total No (2)	No of Fruit bearing trees (3)	Total sales quantity last year kg (4)	Unit cost (5) Rs	Total sales (6) Rs

650 Are you involved in vegetable farming?

651 Yes

652 No

660 What are the different types of vegetables you are growing in relation to the area?

Types of vegetables (1)	Total area (2)				Production (Kg) (3)	Total sales quantity last year kg (4)	Unit cost (5) Rs	Total sales (6) Rs
	R	A	P	D				



**700 Energy Use**

710 For cooking purposes what types of fuels you use and quantity?

Code	Fuel type	Quantity	Unit Cost	Total cost
711	kerosene			
712	wood			
713	bio gas			
714	LPG			
715	Electricity			
716	Others			

720 For lighting purpose what types of fuels you use and quantity?

Code	Fuel type	Quantity (1)	Unit Cost (2)	Total cost (2)
711	kerosene			
712	wood			
713	bio gas			
714	LPG			
715	Electricity			
716	Others			

**800 Irrigation**

810 Do you have irrigated land 811 Yes 812 No

820 If you have irrigated land then what is your means/source of irrigation?

821 Channel 822 Canal 823 Pond 824 Pump set

825 Rain water 826 Other (specify)

**900 Drinking water**

910 What is your source of drinking water?

911 Piped water supply 912 spring 913 Irrigation channel

914 Streams/ivers 915 Well /Kuwa 916 Other (specify)

**1000 Health/Hygiene**

1010 Recently, was any member of your household ill? 1011 Yes 1012 No

1020 If yes state the followings

Relation to family Head (1)	Type of disease (2)	Sex (3)	Age (4)	Sick days (numbers) (5)

- 1030 If yes then where and who was consulted for the treatment?
- 1031 Dhami/Jhankri (local healer) 1032 Herbal medicine
- 1033 Healthpost 1034 Other (specify)
- 1040 How much was spending for treatment? (in Rs)
- 1050 Have you constructed a toilet in your house? 1051 Yes 1052 No
- 1060 What type of toilet is it? 1061 Pit latrine 1062 Latrine (Permanent)
- 1070 Are the livestock kept in the same house with human beings or separately?
- 1071 Separately 1072 Not separately
- 1080 If livestock are in the same house what is the arrangement?
- 1081 Livestock in ground floor 1082 Human beings in upper floor
- 1083 Both in ground floor
- 1090 Have you installed smokeless oven in your kitchen? 1091 Yes 1092 No

**1100 Involvement in any organizations/groups**

- 1110 Is any of your family members involved in any Organizations/Groups
- 1111 Yes 1112 No
- 1120 If yes then provide following details?

Sex of the member	Name organization	Membership type	Objective of organization

**1200 Income/Expenditure**

- 1210 Provide the details of the annual income and expenditure of you household.

Income			Expenditure		
S.N.	Main Topic	Rs	S.N.	Main Topic	Rs
	Cereals		1	Food grain purchase	
	Pulses		2	Vegetables/fruits	
	Dairy products		3	Meat/egg	

Income			Expenditure		
S.N.	Main Topic	Rs	S.N.	Main Topic	Rs
	Livestock		4	Ghee.oil,salt,spices	
	Vegetables		5	Milk,sugar,tea	
	Fruits		6	Cigarratte,bidi,tobacco,tamakhu	
	Fish		7	Alcoholic beverages	
	Cottage industry		8	Clothes,shoes,sandals	
	Wage earning		9	Jwellery	
	Salary/pension*		10	Kerosene/electricity	
	Income from foreign country**		11	Fertilizer/seed purchase	
	Interest		12	Livestock purchase	
	Business/trade		13	Expenses to agriculture	
	Selling of asset		14	Education of childrens	
	House rent		15	Medicine expenses	
	Loan taken		16	transportation	
	Contractor		17	Taxes	
	Others (specify)		18	Purchase of assets	
			19	Expenses for religious purpose	

\*Salary/pension: earned in long-term stay, Use data from Questions 400, 530, 590, 610, 620, 640, 660, 710, 720,

1050 for income and expenditure as appropriate.

\*\*Income from foreign country: earned in short-term stay

### 1300 Information on the Project affected Property Only

1310 Details of Registered land affected by the project under your ownership

S.N.	Types of Registered land	Plot No	Area				Is the land under tenant	Who cultivates the land
A.1	Khet							
A.1								
A.1								
A.2	Bari							
A.2								
A.2								
A.3	Kharbari							
A.3								
A.3								
A.4	Forest							
A.4								
A.5	Orchard							

1320 Details of unregistered land affected by the project used by you

S.N.	Types of unregistered land	Area				Is it under registration process	From whom you take the land
		R	A	P	D		
A.1	Khet						
A.1							
A.1							
A.2	Bari						
A.2							
A.2							
A.3	Kharbari						
A.3							
A.3							
A.4	Forest						
A.4							
A.5	Orchard						

1330 Production and market value of the crops grown in the affected area:

S.N.	Main crops	Production (Kg)	Unit price (Kg)	Total value
	<b>Bari</b>			
1	Upland paddy			
2	Maize			
3	Wheat			
4	Millet			
5	Pulses			
6	Oilseed			
7	Potato			
8	Sugarcane			
9	Others			
	<b>Khet</b>			
1	Paddy			
2	Wheat			
3	Maize			
4	Potato			
5	Pulses			
6	Oilseed			
7	Winter vege.			
8	Sugarcane			
9	Others			

1340 Do you grow Fruits/Vegetables in the affected land 1341 Yes 1343 No

1350 If fruit cultivation practiced on affected land, provide the following details:

Types of fruit	Total No of plants	No. of fruit bearing trees	Production in (Kg)	Price Rs/Kg	Total cost (Rs)

1360 If vegetable cultivation practiced on impacted land, provide the following details:

Types of vegetable	Area				Total Production in (Kg)	Price Rs/Kg	Total cost (Rs)
	R	A	P	D			

#### 1400 Views towards the project

1410 Do you like the project 1411 Yes 1412 No

1420 If Yes, give three main reasons of liking

1421

1422

1423

1430 If No, give three main reasons of dislike

1431

1432

1432

#### 1500 Preferences for compensation, resettlement and rehabilitation

1510 If you are likely to loose a major portion of land or entire asset, what type of compensation package so you prefer (select your priority for two in your priority and write 1 and 2)

1511 Payment in cash only

1512 Land for land

1513 House for house

1514 House for house and land for land

1515 Othars (specify)

1520 If you prefer cash compensation, please specify the reason.

1521 To purchase land

1522 To build house

1523 To pay debt

1524 To start business

1525 Other (specify)

1530 What kind of resettlement support do you expect in case your residential house and major portion of land is affected by the project construction works and reservoir?

1531 Resettle by self in the nearby locality

1532 Resettle as community if the project offers this option in the nearby locality

1533 Resettle as individual outside the locality

1534 Resettle as community if the project offers this option in the outside project locality

1540 If you prefer outside project area then where please give three localities you prefer

1541

1542

1543

1550 If the project affects your land and property what kind of rehabilitation opportunities/ benefits do you expect from the project?

1551 Employment

1552 Skill Training

1553 Soft Loan

1554 Others (specify)

1560 What are the problems that you/your family might have to face as a result of the project implementation? Please specify.

S.N.	Social	Economic
1		
2		
3		
4		
5		
6		

1570 What are the advantages that you/your family would get as result of the project construction works?

1571

1572

1573

1580 What are your three main suggestions to minimize loss of income and property?

1581

1582

1582

1590 What will be the positive and negative impact of the project?

SN	Positive impact	Negative impact	Solutions and suggestions regarding negative impact

#### 23.4 Comments of the interviewer

## Focus Group Discussion –List of Users' Group

### 1) Community Forestry Users' Group.

1.	V D C- Chhan-4, Chokre	X
2.	V D C- Chhan- 5, Fulbari Ghaderi	X
3.	V D C- Chhan-7, Jhakash Fulbari	X
4.	V D C- Bhimad - 1, Khanaltar	X
5.	V D C- Rani Pokhari - 9, Rising Patan	X
6.	V D C- Rani Pokhari - 9, Rising Patan - Kharkhare	
	1 Ghumaune Community Forest user's Group Ward NO 9	Working Committee
	User's HHs-150 Dalit 25	M F 2051/4/7
	Non Dalit 125	8 3
	(Magar ie, Janajati)	
	2 Bhadauredanda Community Forest user's Group	Working Committee
	User's HHs-325 Dalit 75	M F 2050/1/7
	Non Dalit 250	10 3
	(Newar, Gueung, Magar, Chhetry, Bramhin	
	Both of the community forest users' HHs are nearly the same. Ghumaune Community Forest is located at Ward NO 9 whereas Bhadauredanda Community Forest is at Ward NO 8. Bhadauredanda Community Forest is larger in area and it is likely that the users' HHs are also more than double.	
7	V D C- Kotdarbar - 1, Maidan Swanra	
	Kalika Community forest user's (Group) households are reported 165 of which only one household is from Dalit. There are 11 members in working committee and all of them are female.	
8.	V D C- Kahun Shivapur - 3, Bakle	
	Bakle Community Forest user's (group) households are 100 and non dalit has been included in the group. The forest is located at Siddasthan of Ward NO 3 and has been formed with 11 members working committee including 2 females.	
9.	V D C- Kahun Shivapur - 1, Beltar	
	There are two community forest user's group in Ward NO 1 of Kahe Shivapurnaluly Salbas Community Forest user's group and Bochang Community forest user's group and the users HHs are the same of both group. They are located at Dharapani and Beltar respectively. A total of 250 HHs are included in the users' group of which 40 are dalit and rest 210 are non dalit. Total of 17 member working committee with 3 females have been formed in Salbas group and 13 members working committee headed by a woman in Bochang included 2 female and 11 male members.	
10.	Vyas Municipality - 7, Tallo Patan	
	X	
11.	Vyas Municipality - 7, Beni Patan	
	X	
12.	Vyas Municipality - 7, Beteni	
	X	
13.	Vyas Municipality - 5, Baireni-Botegaun	
	Two community forests have been reported used by the residents of Bairenitar but both of them are located outside of the impacted area. Kandathumki is located at just upper part of the Bairenivilage and Tekanthumki across the Madi River at Gunadi side. They are just users and not included in the working committee and each of the household pays Rs 60 per year as member fee.	



## 2) Drinking Water Users' Group

7) Drinking Water Users Group							
SN	Name of the scheme	Name of source scheme	Beneficiary HHs		Working Committee		Initiated by
			Gurung	Newar	M	F	
1.	V D C- Chhan-4, Chokre						
	X						
2.	V D C- Chhan- 5, Fulbari Ghaderi						
	X						
3.	V D C- Chhan-7, Jhakash Fulbari						
	Chitung Khola Drinking Water Users Group						
	Chitung Khola DWUG	Chitung Khola	75	25	8	3	Ex-Indian Army soldiers' association
4.	V D C- Bhimad - 1, Khanaltar						
	X						
5.	V D C- Rani Pokhari - 9, Rising Patan						
	Charchare DWUG	Charchare Khola	Dalit	Others	9	2	District Drinking Water Office
			1	199			
	Note: Other caste- Chhetri, Newar, Magar						
6.	V D C- Rani Pokhari - 9, Rising Patan - Kharkhare						
	Sindus Khola DWUG	Bokse Chhahara, Tarebhir	30	90	8	3	District Drinking Water Office
7	V D C- Kotdarbar - 1, Maidan Swanra						
	Chandiya Khola DWUG	Chandiyan Khola	1	34	7	2	VDC-Fund
	Kapidi DWUG	Kapidi Muhan	-	103	9	2	VDC-Fund
	Chabadi DWUG	Chabadi Muhan	-	14	7	2	VDC-Fund
	Arkhodi DWUG	Arkhodi Khola	13	13	5	2	VDC-Fund
8.	V D C- Kahun Shivapur - 3, Bakle						
	X						
9.	V D C- Kahun Shivapur - 1, Beltar						
	Linde Khola DWUG	Linde Khola	40	131	13	3	British Welfare Fund UK
	Pinsili Khola	Pinsili Khola	Reportedly these three sources are also handled by Linde Khola drinking water users group.				
	Mukuluk Khola	Mukuluk					
	Chanp Khola	ChanpKhola					
10.	Vyas Municipality - 7, Tallo Patan						
	Asapuri DWUG	Asapuri Muhan	Janajati 25	-	5	2	DDC and Municipality Magar,Tamang Giri,Newar,Boti
11.	Vyas Municipality - 7, Beni Patan						
	X	X	X	X	X	X	
12.	Vyas Municipality - 7, Beteni						
	Beteni DWUG	Beteni Kholsi	33 Magar	2 Ranabhat	5	-	Byas Municipality
13.	Vyas Municipality - 5, Baireni-Botegaun						
	X	X	X	X	X	X	X

## 3) Irrigation water users' group

3) Irrigation water users' group

SN	Name of the Irrigation Water user group	Name of source scheme	Beneficiary HHs		Working Committee		Initiated or Trained by	Remark
					M	F		
1.	V D C- Chhan-4, Chokre							
	X	X	X	X	X	X	X	X
2.	V D C- Chhan- 5, Fulbari Ghaderi							

SN	Name of the Irrigation Water user group	Name of source scheme	Beneficiary HHs		Working Committee		Initiated or Trained by	Remark
					M	F		
	X	X	X	X	X	X	X	X
3.	V D C- Chhan-7, Jhakash Fulbari							
	X	X	X	X	X	X	X	X
4.	V D C- Bhimad - 1, Khanaltar							
	Jidi Khola Birta Pachar	Jidi Khola Birta Bandh	38 Brm	2	8	1	DADO-Tanahun & local users group	Joint venture
5.	V D C- Rani Pokhari – 9, Rising Patan							
	Bidhuwa Irrigation Water users group	Hentang Khola	12 Dalit	102 Brm	12	3	DIO-Tanahun	
6.	V D C- Rani Pokhari – 9, Rising Patan - Kharkhare							
	X							
7.	V D C- Kotdarbar - 1, Maidan Swanra							
	X							
8.	V D C- Kahun Shivapur - 3, Bakle							
	X							
9.	V D C- Kahun Shivapur - 1, Beltar							
	X							
10.	Vyas Municipality - 7, Tallo Patan							
	X							
11.	Vyas Municipality - 7, Beni Patan							
	X							
12.	Vyas Municipality - 7, Beteni							
	X							
13.	Vyas Municipality - 5, Baireni-Botegaun							
	X							

#### 4) Livestock Raising Group

7) Livestock Raising Group						
SN	Name of group	Beneficiary household	Members		Objective	Who trained/Initiated
			M	F		
1.	V D C- Chhan-4, Chokre					
	-	-	-	-	-	-
2.	V D C- Chhan- 5, Fulbari Ghaderi					
	-	-	-	-	-	-
3.	V D C- Chhan-7, Jhakash Fulbari					
	-	-	-	-	-	-
4.	V D C- Bhimad - 1, Khanaltar					
	-	-	-	-	-	-
5.	V D C- Rani Pokhari - 9, Rising Patan					
	BudhuwaRhising Patan-Joint Livestock raising group	42 HHs Gurung, Brm Newar	11		Livestock promotion & income generation	DLSO-Tanahun
6.	V D C- Rani Pokhari - 9, Rising Patan – Kharkhare					
	-	-	-	-	-	-

SN	Name of group	Beneficiary household	Members		Objective	Who trained/Initiated
			M	F		
7	V D C- Kotdarbar - 1, Maidan Swanra					
	Chandra-Tara Pig keeping grp	Total 150 Dalit 1 Other 149 Majority Magar, few Chhetry, Bramhin	2	9	Income generation poverty reduction	Urja Bikas
8.	V D C- Kahun Shivapur - 3, Bakle					
	-	-	-	-	-	-
9.	V D C- Kahun Shivapur - 1, Beltar					
	-	-	-	-	-	-
10.	Vyas Municipality - 7, Tallo Patan					
	-	-	-	-	-	-
11.	Vyas Municipality - 7, Beni Patan					
	-	-	-	-	-	-
12.	Vyas Municipality - 7, Beteni					
	-	-	-	-	-	-
13.	Vyas Municipality – 5, Baireni-Botegaun					
	Goat keeping group	All Bote Female 48		48	Income generation and poverty reduction	DLSO-Tanahun

#### 5) Cereal Farms Group

37. Cereal Farmers Group

SN	Name of group	Members		Objective	Who trained/Initiated		
		F	M				
1.	V D C- Chhan-4, Chokre						
	-	-	-	-	-		
2.	V D C- Chhan- 5, Fulbari Ghaderi						
	-	-	-	-	-		
3.	V D C- Chhan-7, Jhakash Fulbari						
	-	-	-	-	-		
4.	V D C- Bhimad - 1, Khanaltar						
	-	-	-	-	-		
5.	V D C- Rani Pokhari - 9, Rising Patan						
	Vegt. Cereal Farmers Group	Brah 31	Gur 1	4	28	Vegetable production income generation	DADO-Tanahun
6.	V D C- Rani Pokhari - 9, Rising Patan – Kharkhare						
	Jana Uddhar Krishi Samuha	Total HHs 23-Newar, Chhetry, Bramhin		5	18	Vegetable production income generation	DADO-Tanahun
7	V D C- Kotdarbar - 1, Maidan Swanra						
	Chandra-Tara Beekeeping group	Dalit 1	Other 149	2	9	Income generation	Urja Bikas
	Chandra-Tara vegetable promotion group	Dalit 1	Other 149	10	15	Vegetable production income generation	
8.	V D C- Kahun Shivapur - 3, Bakle						
	-	-	-	-	-	-	-

9.	V D C- Kahun Shivapur - 1, Beltar						
	Vegetable Promotion group	Dalit	Janajati	13	12	Promotion of offseason vegetable	VDRC-Gaindakot
		3	22				
10.	Vyas Municipality - 7, Tallo Patan						
	-	-	-	-	-	-	-
11.	Vyas Municipality - 7, Beni Patan						
	Matsyakanya Namuna group	30 HHs all Magars		30	-	Vegetable production income generation	Yokoyama Japanese Club & Local Rotary club
12.	Vyas Municipality - 7, Beteni						
	-	-	-	-	-	-	-
13.	Vyas Municipality - 5, Baireni-Botegaun						
	Dharapani Tarkari Bikas Samuha	15 All Bote women		15	-	Vegetable production, income generation & poverty reduction	ID Nepal

#### 6) Women's group

67) Women's group

SN	Name of group	Group objective	Members		W. Comt.	Registered at	Remark
1.	V D C- Chhan-4, Chokre						
	-	-	-	-	-	-	-
2.	V D C- Chhan- 5, Fulbari Ghaderi						
	-	-	-	-	-	-	-
3.	V D C- Chhan-7, Jhakash Fulbari						
	Amasamuha Jhakash	Women awareness and empower	Gurung 75	Newar 25	11	DAO-Tanahun	
4.	V D C- Bhimad - 1, Khanaltar						
	Matrisisu kalyan Amasamuha	" S & C	Total 80 50 Bram		11	DAO-Tanahun	Bramhin,Kumal, Magar, Chhetry, Newar
	Saraswati Samudayik Amasamuha	" S & C	18 member	30 Newar, Kumal			
	Magar Amasamuha	" S & C	100 Magar	-	6	-	Bramhin,Kumal, Magar, Chhetry, Newar
				-	15	-	All Magar
5.	V D C- Rani Pokhari - 9, Rising Patan						
	Kalyankari Amasamuha	" S & C	37 Bramhin	-	-	DAO-Tanahun	All Bramhin members
6.	V D C- Rani Pokhari - 9, Rising Patan – Kharkhare						
	Janakalyan Amasamuha	" S & C	Total 54 Dalit 8, others 46		11	DAO-Tanahun	Magar-13 Gurung-13 Newar-14 Rest-14 (Kami,Bramhin, Chhetri, Damai
7	V D C- Kotdarbar - 1, Maidan Swanra						
	Kalikamai Amasamuha	" S & C	Total 60		13	Initiated By Urja Bikas	All Magar
8.	V D C- Kahun Shivapur - 3, Bakle						
	Janakalyan Amasamuha	" S & C	Total 22		9	Local women	All Magar

SN	Name of group	Group objective	Members	W. Comt.	Registered at	Remark
9.	V D C- Kahun Shivapur - 1, Beltar					
	Laligurans Amasamuha	" S & C	Total-48, Magar-34,Dalit-5,others-9	7	DAO, WDO-Tanahun	Others-Thakuri, Ranabhat
10.	Vyas Municipality - 7, Tallo Patan					
	-	-	-	-	-	-
11.	Vyas Municipality - 7, Beni Patan					
	Janachetana Amasamuha	" S & C	Total 70	11	DAO-Tanahun	Mixed caste
12.	Vyas Municipality - 7, Beteni					
	Janakalyan Amasamuha	" S & C	Total 35, Magar-33,Ranabhat-1,Dalit-1	5	Local women	
13.	Vyas Municipality - 5, Baireni-Botegaun					
	Kalyankari Amasamuha		Total 48	7	DAO-Tanahun & initiated by WDO-Tanahun	All Bote Women

#### 7) Saving and Credit Group

7) Saving and Credit Group								
SN	Name of the group	Beneficiary Household		Member		Objective	Initiated/ trained by	Remarks
				M	F			
1.	V D C- Chhan-4, Chokre							
	-	-	-	-	-	-	-	-
2.	V D C- Chhan- 5, Fulbari Ghaderi							
	-	-	-	-	-	-	-	-
3.	V D C- Chhan-7, Jhakash Fulbari							
	Babu Kosh Samuha	75	25	7	-	Saving credit &	Local farmer	Gurung 75 Newar 25
	Ama Kosh Samuha	75	25	1	6	"	"	"
	Ekata Uva Club	75	25	4	3	"	"	"
4.	V D C- Bhimad - 1, Khanaltar							
	-	-	-	-	-	-	-	-
5.	V D C- Rani Pokhari - 9, Rising Patan							
	-	-	-	-	-	-	-	-
6.	V D C- Rani Pokhari - 9, Rising Patan – Kharkhare							
	-	-	-	-	-	-	-	-
7	V D C- Kotdarbar - 1, Maidan Swanra							
	-	-	-	-	-	-	-	-
8.	V D C- Kahun Shivapur - 3, Bakle							
	-	-	-	-	-	-	-	-
9.	V D C- Kahun Shivapur - 1, Beltar							
	-	-	-	-	-	-	-	-
10.	Vyas Municipality - 7, Tallo Patan							
	-	-	-	-	-	-	-	-
11.	Vyas Municipality - 7, Beni Patan							
	1. Tol Bikash Samuha – Upallo & Tallo patan	Mixed caste -		38	38	Saving credit &	Byas municipality & Partnership dev. Prog.	Gurung, Brahmin, Newar, Magar
	2. Beni Patan Tol Bikash Samuha	"	"	25	39	"	"	"
	3. Mahila Samuha	"	"	—	25	"	"	"
12.	Vyas Municipality - 7, Beteni							
	Beteni Tol Bikash Samuha	33	2	5	2	"	"	Magar-33, Other-2
13.	Vyas Municipality - 5, Baireni-Botegaun							
	-	-	-	-	-	-	-	-

## First Stakeholders Meeting

**Advance Notification of First Stakeholders Meeting**  
**in Camauli and Kathmandu**

## Advance Notification of First Stakeholders Meeting in Damauli and Kathmandu


1- Public notice published in the national newspaper "Gorkhapatra" 24<sup>th</sup> May 2006 (Nepali)

गोरखापत्र २०६३ साल जेठ १० गते बुधवार  
Wednesday, May 24, 2006

**माथिल्लो सेती (दमौली) जलाशययुक्त जलविद्युत आयोजनाको अपग्रेडिङ (Upgrading) सम्भाव्यता अध्ययनका विविध पक्षहरू उपर सरोकारवालाहरूसँग हुने छलफल कार्यक्रममा सहभागी हुनेसम्बन्धी सूचना**

पश्चिमाञ्चल विकास क्षेत्रको तनहुँ जिल्लास्थित सेती नदीमा पहिचान भएको १२२ मेगावाट क्षमताको माथिल्लो सेती (दमौली) जलाशययुक्त जलविद्युत आयोजनाको अपग्रेडिङ (रुनचबमप्लन) सम्भाव्यता अध्ययन कार्य जापान अन्तर्राष्ट्रिय सहयोग नियोग (जाईका) को प्राविधिक सहयोगमा सन् २००४ देखि सुरु गरिएको छ। यस अध्ययनको मुख्य उद्देश्य प्राविधिक, आर्थिक तथा वातावरणीय दृष्टिकोणले उपयुक्त योजना तयार गर्नु हो। यस आयोजनाको अपग्रेडिङ (रुनचबमप्लन) सम्भाव्यता अध्ययनको क्रममा आयोजनाका विविध पक्षहरू, जस्तै- आयोजनाको परिचय, अध्ययनको उद्देश्य, क्षेत्र, कार्यविधि तथा समय तालिकाबारे राय सुझाव संकलन गर्न वन्य अध्ययन टोलीको सहयोगमा नेपाल विद्युत प्राधिकरणले यही मिति २०६३/२१९ गते शुक्रबारको दिन बिहान १०:३० बजे तनहुँ जिल्ला विकास समितिको हल दमौलीमा आयोजनाका सरोकारवालाहरूसँग पहिलो छलफल कार्यक्रमको आयोजना गर्ने भएको छ। यस छलफल कार्यक्रममा सो आयोजनाबाट प्रत्यक्ष प्रभावित हुने तनहुँ जिल्लाका भिमाद बजार, माक्कोट, छाड, रानीपोखरी, जामुने, कोट दरवार र काहुँ शिवपुर गा.वि.स.हरू तथा व्यास नगरपालिका तथा तल्लो तटिय क्षेत्रमा पर्ने पोखरी भन्ज्याङ गा.वि.स. का सम्बन्धित सबै सरोकारवालाहरू तथा अन्य इच्छुक संघसंस्था तथा व्यक्तिहरूलाई उक्त कार्यक्रममा उपस्थित भई आफ्नो राय सुझाव उपलब्ध गराइ दिनु हुन अनुरोध गरिन्छ। यससम्बन्धी लिखित राय सुझाव भए निम्नलिखित ठेगानामा पठाउन सकिने बेहोरासमेत अनुरोध छ।

**आयोजक**

 <p>वातावरण तथा सामाजिक अध्ययन विभाग नेपाल विद्युत प्राधिकरण अद्वैतमार्ग, काठमाडौँ फोन नं. ४२२६७३०, ४२२१८४४ फ्याक्स नं. ४२२४२४८</p>	<p>जापान अन्तर्राष्ट्रिय सहयोग नियोग (JICA) C/O जाईका नेपाल कार्यालय पो.ब.नं. ४५०, काठमाडौँ, नेपाल कार्यकारी सञ्चालक कोष भवन हरिहर भवन, सल्लिपुर फोन नं. ४५४२७११, फ्याक्स : ४५४२२८४</p>
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गोरखापत्र  
२०६३-२

गोरखापत्र २०६३ साल जेठ ११ गते बिहीबार  
Thursday, May 25, 2006

**गोपनीय**

मिति २०६३/२१० गतेको गोरखापत्रको बाहेँ पृष्ठमा प्रकाशित नेपाल विद्युत प्राधिकरण माथिल्लो सेती (दमौली) जलाशययुक्त जलविद्युत आयोजनाको (upgrading) सम्भाव्यता अध्ययनका विविध पक्षहरू उपर सरोकारवालाहरूसँग हुने छलफल कार्यक्रममा सहभागी हुनेसम्बन्धी सूचनाको दोस्रो हप्ता तथा प्राचीन हप्तामा बाकेटमा Upgrading र त्यसै सोही सूचनाको तेस्रो तथा सातौँ हप्तामा JICA मन्त्रे शब्द छपाइ हुनुपर्नेमा अन्त्य भई छपाइ भएकोले सच्याइएको छ।

2- Public notice published in the national newspaper "Gorkhapatra" 24<sup>th</sup> May 2006 (English)



## **Notice**

### **Stakeholders meeting for the Upgrading Feasibility Study of Upper Seti (Damauli) Storage Hydroelectric Project**

Upgrading feasibility study of 122 MW Upper Seti (Damauli) Storage Hydroelectric Project identified at Tanahu District of Western Development Region of Nepal has started since 2005 under the technical assistance of JICA. Main Objective of the study is to prepare a technically viable and economically affordable and environmentally sustainable optimum project plan.

In the process of the upgrading feasibility study of the project, Nepal Electricity Authority (NEA) with the assistance of JICA Study Team is organising first stakeholders meeting on the 2<sup>nd</sup> of June 2006, Friday, at 10.30 AM in the District Development Committee Hall, Damauli, Tanahu district to discuss project background, objectives, area, scope of works and study schedules. Concerned institutions/organisations and individuals particularly from the directly project affected Village Development Committees (VDCs) Bhimad Bazzar, Majkot, Chhan, Ranipokhari, Kot Darbar and Kanhu-shivapur and Byas Municipality and Pokhari Bhanjyng VDC of downstream areas are requested to participate and present their concerns and suggestions in the meeting. Concerned institutions/organisations and individuals could also submit their written concerns on the following addresses.

### **Proponent**

#### **Environmental and Social Study Department**

Nepal Electricity Authority (NEA)  
Adait Marga, Kathmandu  
Phone : 4226730, 4251845  
Fax : 4225248

#### **Japan International Cooperation Agency (JICA)**

C/O JICA Nepal Office  
Post Box No. 450, Kathmandu, Nepal  
Karmachari Sanchayakosh Bhavan  
Harihar Bhavan, Lalitpur  
Phone : 5552711  
Fax : 5552284

3- Public notice published in the local newspaper  
"Bhanjyang " 1st June 2006. The content was the  
same as 1-2.



**माथिल्लो सेती (दमौली) जलाशययुक्त जलविद्युत आयोजनाको  
स्तरवृद्धि (Upgrading) सम्भाव्यता अध्ययनका विविध पक्षहरू उपर  
सरोकारवालाहरूसँग हुने छलफल कार्यक्रममा सहभागी हुने सम्बन्धी**

### **सूचना !**

पश्चिमाञ्चल विकास क्षेत्रको तनहुँ जिल्ला स्थित सेती नदीमा पहिचान भएको १२२ मेगावट क्षमताको माथिल्लो सेती (दमौली) जलाशययुक्त जलविद्युत आयोजनाको स्तरवृद्धि (Upgrading) सम्भाव्यता अध्ययन कार्य जापान अन्तर्राष्ट्रिय सहयोग नियोग जाईका (JICA) को प्राविधिक सहयोगमा सन् २००५ देखि सुरु गरिएको छ । यस अध्ययनको मुख्य उद्देश्य प्राविधिक, आर्थिक तथा वातावरणीय दृष्टिकोणले उपयुक्त योजना तयार गर्नु हो ।

यस आयोजनाको स्तरवृद्धि (Upgrading) सम्भाव्यता अध्ययनको क्रममा आयोजनाका विविध पक्षहरू, जस्तै आयोजनाको परिचय, अध्ययनको उद्देश्य, क्षेत्र, कार्यविधि तथा समय तालिका बारे राय सुझाव संकलन गर्न JICA अध्ययन टोलीको सहयोगमा नेपाल विद्युत प्राधिकरणले यहि मिति २०६३।२।१९ गते शुक्रबारको दिन बिहान १०:३० बजे तनहुँ जिल्ला विकास समितिको सभा कक्ष दमौलीमा आयोजनाका सरोकारवालाहरूसँग पहिलो छलफल कार्यक्रमको आयोजना गर्ने भएको छ । यस छलफल कार्यक्रममा सो आयोजनाबाट प्रत्यक्ष प्रभावित हुने तनहुँ जिल्लाका भिमाद बजार, माझकोट, छाड, रानीपोखरी, जामुने, कोटवरवार र काहुँ शिवपुर गाविसहरू तथा व्यास नगरपालिका तथा तल्लो तटिय क्षेत्रमा पर्ने पोखरी भञ्ज्याङ्ग गाविसका सम्बन्धित सबै सरोकारवालाहरू तथा अन्य इच्छुक संघ संस्था तथा व्यक्तिहरूलाई उक्त कार्यक्रममा उपस्थित भई आफ्नो राय सुझाव उपलब्ध गराई दिनु हुन अनुरोध गरिन्छ । यस सम्बन्धी लिखित राय सुझाव भए निम्न लिखित ठेगानामा पठाउन सकिने व्यहोरा समेत अनुरोध छ ।

**आयोजक :**

**वातावरण तथा सामाजिक**

**अध्ययन विभाग**

**नेपाल विद्युत प्राधिकरण**

**अद्वैतमार्ग, काठमाण्डौ**

फोन नं. : ४२२९७३०, ४२२९८४४

फ्याक्स नं. : ४२२५२४८

**जापान अन्तर्राष्ट्रिय सहयोग नियोग  
(JICA)**

**C/O जाईका नेपाल कार्यालय**

पो.ब.न. ४५०, काठमाण्डौ, नेपाल

कर्मचारी संचय कोष भवन

हरिहर भवन, ललितपुर

फोन नं. : ५५५२७१, फ्याक्स : ५५५२३८५

**List of Invited Institutions/Persons of First Stakeholder Meeting  
in Damauli**

### List of Invited Institutions/Persons of First Stakeholder Meeting in Damauli

S.No.	Name	Address
1	District Development Committee	Damauli, Tanahaun
2	District Administrative Office	Damauli, Tanahaun
3	District Police Office	Damauli, Tanahaun
4	Women Development Office	Damauli, Tanahaun
5	NGO Federation	Damauli, Tanahaun
6	District Agricultural Office	Damauli, Tanahaun
7	District Forest Office	Damauli, Tanahaun
8	District Public Health Office	Damauli, Tanahaun
9	Six Community Forest Offices	Affected VDCs, Letter were Given through District Forest Office
10	ACAP	Pokhara, Nepal
11	Lee Bird, National Level NGO	Pokhara, Nepal
12	Inland Fisheries Research Center, Nepal	Begnas, Pokhara, Nepal
13	Agricultural Research Council (NARC)	
14	Nepali Congress, District Executive Committee	Damauli, Tanahaun
15	CPNUML, District Executive Committee	Damauli, Tanahaun
16	Nepali Congress Democratic, District Executive Committee	Damauli, Tanahaun
17	Janamorchha Nepal (One of the Communist Party), District Executive Committee	Damauli, Tanahaun
18	Nepal Communist Party Maoist, District Executive Committee	Damauli, Tanahaun
19	Machha Puchere FM	Pokhara, Nepal
20	Bhanjyung National Daily (Newspaper)	Damauli, Tanahaun
21	Reporter, Nepal Samachar Patra	Damauli, Tanahaun
22	Reporter, The Rising Nepal	Damauli, Tanahaun
23	Reporter, Kantipur	Damauli, Tanahaun
24	Reporter, Annapurna Post	Damauli, Tanahaun
25	Journalist Association	Damauli, Tanahaun
26	Reporters Clube	Damauli, Tanahaun
27	Consumers Federation	Damauli, Tanahaun
28	Chairman, Civil Society	Damauli, Tanahaun
29	Vyas Municipality	Damauli, Tanahaun
30	Secretaries of all the Affected VDCs	Tanahaun
31	Campus Chif	Bhanu Bhakta Campus, Khairani Tar, Tanahaun
32	Members of the Parliament	3 Persons from Tanahaun District
33	Ministry of Environment, Science and Technology	Singa Durbar, Kathmandu
34	Ministry Of Water Resource	Singa Durbar, Kathmandu
	Department of Electricity Development	Anam Nagar, Kathmandu

**Participants Registered in the First Stakeholder Meeting  
at Damauli, June 2nd, 2006**

**Participants Registered in the First Stakeholder Meeting at Damauli, June 2nd, 2006**

S.No.	Name	VDC, Ward	Office Organization	Profession,Level	Contact no.	Age	Sex
	<b>Bhagwatipur VDC</b>						
1	Krishna Bahadur Shrestha	Bhagwatipur 2		Agriculture		50	M
2	Aaita Ram Pariyar	Bhagwatipur 2		Agriculture		30	M
3	Krishna Prasad Gaire	Bhagwatipur 2		Agriculture		50	M
4	Bal Krishna Gairhe	Bhagwatipur 2		Agriculture		48	M
5	Laxman Pariyar	Bhagwatipur 2 samang		Agriculture		26	M
6	Som Prasad Pariyar	Bhagwatipur-2		Agriculture		30	M
7	Til Bahadur Ale	Bhagwatipur-2		Agriculture		63	M
8	Lal Bahadur Pariyar	Bhagwatipur-2 Samang		Agriculture		45	M
9	Din Bahadur Pariyar	Bhagwatipur 2 Samung		Agriculture			M
	<b>Bhimad VDC</b>						
1	Chandra Kanta Timilsina	Bhimad	Bhimad VDC	Secretary		34	M
2	Tirtha Shrestha	Bhimad				35	M
3	Yaga Narayan Subedi	Bhimad					M
4	Viswo Bandhu Bhandari	Bhimad 1	Bhanjyang Daily	Editor	560907	58	M
5	Chakra pani subedi	Bhimad 1		Agriculture		60	M
6	Krishna Aryal	Bhimad 2		Business		33	M
7	Prem Bahadur Thapa	Bhimad 8		Agriculture		35	M
8	Ananta bahadur Rana	Bhimad 8		Agriculture		49	M
9	Thamman Singh Thapa	Bhimad 8		Agriculture		55	M
10	Gyan Thapa	Bhimad 9		Army		35	M
11	Dhan Maya Ale	Bhimad chang 8		Agriculture		35	F
12	Sumitra Gautam	Bhimad chang patan 8		Agriculture		40	F
13	Ram Chandra Parajuli	Bhimad, 2		Agriculture		48	M
14	Rajendra Aryal	Bhimad, 2		Computer	9803156817	28	M
15	Dadhi Raj Subedi	Bhimad-1			9846047121	53	M
16	Nas Dutta Bhandari	Bhimad-2		Agriculture		47	M
17	Man Kumari	Bhimad-2		Agriculture	570271	40	F
18	Narayan Khanal	Bhimad-7	Nepal Communist Party,UML	office		44	M
19	Meera Thapa	Bhimad		Agriculture		28	F
	<b>Chang VDC</b>						
1	Khimnanda Wagle	Chang patan		Agriculture		30	M
2	Prem Bahadur Thapa	Chang 2		Agriculture		48	M
3	Shree Bahadur Thapa	Chang 2		Agriculture		52	M
4	Jhul Bahadur Thapa	Chang- 2		Agriculture		53	M
5	Bum Bahadur Thapa	Chang -2	Shree Ganesh Sec. School	Teacher		45	M
6	Tirtha raj Wagle	Chang 4		Secretary	9846049173	48	M
7	Til Bahadur Ale	Chang 4		Agriculture		47	M
8	Bal Bahadur Ale	Chang 4		Agriculture		44	M
9	Om Bahadur Ale	chang 4		Agriculture		27	M
10	Man Bahadur Thapa	chang 4		Agriculture		50	M
11	Mitra Lal Shrestha	chang 4		Agriculture		55	M
12	Sam Sher Thapa	chang -4	School	Teacher		40	M
13	Tra Raj Rana	Chang 6			560375	52	M
14	Dil Bahadur Gurung	Chang 7		Agriculture		29	M
15	Hmal Gurung	Chang 7		Student		17	M
16	Ram Gurung	Chang 7		Student		21	M
17	Tek Bahadur Gurung	chang 7	Thani Devi Primary school	Service		29	M
18	Hasta Bahadur Gurung	chang 7	Thani Devi Primary school	service		20	M
19	Padma Bahadur Gurung	chang 7		Agriculture		50	M
20	Chandra Bahadur Gurung	Chang 7		Agriculture		40	M
21	Samel Gurung	Chang 7		Agriculture, student		16	M
22	Tank Bahadur	Chang 8		Agriculture		54	M
23	Rajan Khanal	Chang 8		Agriculture		14	M
24	Ramchandra Tiwari	chang 8		Service		27	M
25	Bal Kumal	Chang 8				24	M
26	Mina Adhikari	Chang 8		Agriculture		28	F
27	Tilu Gurung	Chang 8		Agriculture		30	F
28	Amrita Bhandari	Chang 8		Agriculture		21	F
29	Dhan Bahadur Nepali	Chang 8		Agriculture		51	M
30	Ravilal Aryal	Chang 8		Social worker		68	M
31	iman Singh Thapa	Chang 8		Agriculture		50	M
32	Man Bahadur Thapa	Chang 8		Agriculture		54	M
33	Santa Bahadur	chang 8		Agriculture		52	M
34	Shankar Pariyar	Chang 8		Tailoring	529369	30	M
35	Purna Bahadur Pariyar	Chang 8		Tailoring	529369	36	M
36	Shree Lal Tamang	Chang 9		Agriculture	9846065603	58	M
37	Bim Kumar Shrestha	Chang Patan 8		Agriculture		34	M
38	Dil Bahadur Pariyar	Chang Patan 8		wage based		33	M
39	Top Bahadur Rana	Chang Patan 8		Student		16	M
40	Suk Maya Thapa	Chang Patan 8		Agriculture		35	F
41	Jit Bahadur Thapa	Chang Patan 8		Agriculture		65	M
42	JhampaNath Upadhyaya	Chang Patan 8		Agriculture		48	M
43	Baburam Wagle	Chang Patan 8		Agriculture		39	M
44	Til Bahadur Kumal	Chang Patan 8		Agriculture		63	M
45	Parimaya Kumal	Chang Patan 8		Agriculture		45	M
46	Nindra kala Poudel	Chang Patan 8		Agriculture		60	F
47	Radha Bhandari	Chang patan 8		Agriculture		28	F
48	Gyanu Maya Poudel	chang patan-8		Agriculture		49	F
49	Bhim Bahadur Kumal	chang patan-8		Agriculture		63	M
50	Kamal Bahadur Kumal	chang patan-8		Agriculture		48	M
51	Harka Bahadur Gurung	chang patan-8		Carpenter		25	M
S.No.	Name	VDC, Ward	Office Organization	Profession,Level	Contact no.	Age	Sex

52	Man Bahadur Kumal	chang patan-8		Agriculture		31	M
53	Santa Ram Thapa	chang patan-8		Agriculture		30	M
54	Chandra Kantha Pokhrel	chang patan-8		Agriculture		34	M
55	Som Kanta Wagle	chang patan-8		Agriculture		47	M
56	Buddhi Bahadur Kumal	chang patan-8		Agriculture		45	M
57	Devi Lal Kumal	chang patan-8		Agriculture		66	M
58	Min Bahadur Gurung	chang patan-8		Agriculture		49	M
59	Ek Bahadur Kumal	chang patan-8		Agriculture		48	M
60	Padma Kumari Adhikari	chang patan-8		Agriculture		60	F
61	Nirmaya Kumal	chang patan-8		Agriculture		57	F
62	Sabitri kumal	chang patan-8		Agriculture		54	F
63	Bhesh Bahadur Kumal	chang patan-8		Agriculture		22	M
64	Tara Bahadur Pathak	Chang,		Agriculture		40	M
65	Birkha Bahadur Kamal	Chang, 8		Agriculture		41	M
66	Lil Bahadur Kumal	chang, 8		Agriculture		40	M
67	Sama Bahadur Pathak	chang, 8		Agriculture		39	M
68	Guman Singh Ran	Chang-4		Agriculture		61	M
69	Nanda Bahadur Thapa	Chang-4		Agriculture		53	M
70	Dan Bahadur Ale	Chang-4		Agriculture		58	M
71	Kum Bahadur Thapa	Chang-4		Agriculture		44	M
72	Lekh Narayan Shrestha	Chang-4 chokre		Agriculture		62	M
73	Shree Raj Rana	Chang-6		Agriculture		59	M
74	Uttar Kumal	Chang-7		Agriculture		56	M
75	Khil Bahadur Gurung	Chang-7		Agriculture		50	M
76	Som Bahadur Gurung	chang-7		Agriculture		42	M
77	Hem Bahadur Gurung	chang-7		Agriculture		53	M
78	Man Narayan Shrestha	Chang-7		Agriculture		46	M
79	Dil Bahadur Gurung	Chang-7		Agriculture		24	M
80	Samsher Gurung	Chang-7		Agriculture		26	M
81	Santa Bahadur Gurung	Chang-7		Agriculture		24	M
82	Gir Bahadur Gurung	Chang-7		Agriculture		44	M
83	Yuv Raj Wagle	Chang-8	School	Teacher		42	M
84	Durga Pathak	Chang-8		Agriculture		42	M
85	Padma Mani Sharma	Chang-8		Agriculture		49	M
86	Sukmaya Thapa	Chang-8		Agriculture		32	F
87	Ratna Bahadur Pathak	ChangPatan-8		Agriculture		40	M
Dhor Phidi							
1	Ganesh Bahadur V.K	Dhor Phidi 3		Business		24	M
2	Krishna Bahadur Ranamagar	Dhor Phidi 6		Agriculture		24	M
3	Tara Prasad Kafle	Dhor Phidi 5		Student		26	M
Jamune VDC							
1	Lok Raj Subedi	Jamune	Jamune VDC	(Nayab Subba),Secretar	9856024893	35	M
2	C.S Ghimire	Jamune		Agriculture	9846027429	59	M
3	Vishnu Pandit	Jamune		Service	9846029341	32	M
4	Hari Nath Khanal	Jamune		Service	9846043140	48	M
5	Raju Rana	Jamune 1		Agriculture		40	M
6	Mahakali Khanal	Jamune 1		Agriculture		56	F
7	Savitra Karki	Jamune 1	Barahi Women Saving	President		40	F
8	Om Bahadur Ale	Jamune 1		Agriculture		30	M
9	Dirgha BahadurAleMagar	Jamune 1		Social worker		65	M
10	Devi Lal Khanal	Jamune 2		Agriculture		62	M
11	Hari Bahadur Rana Magar	Jamune 3		Nepali congress, VDC president		60	M
12	Parwali Shrestha	Jamune 4		Agriculture		40	F
13	Shreedhar Ranabhat	Jamune 4		Ward President		65	M
14	Del Bahadur Ranabhat	Jamune 4		Agriculture		77	M
15	Shukra Narayan Shrestha	Jamune 4		Agriculture		53	M
16	Narayan Ghimire	Jamune 6		Business		34	M
17	Dharma Raj Ghimire	Jamune 6		Business		28	M
18	Hom Bahadur Ale	Jamune 6		Agriculture		48	M
19	Madhumaya thapa	Jamune 6		Business		35	F
20	Bal Krishna Ghimire	Jamune 7		Social worker	9846064135	42	M
21	RamBhakta Ghimire	Jamune 7		Teacher		31	M
22	Upendra Ghimire	Jamune 7		Agriculture	9846027585		M
23	Laxman Adhikari	Jamune 7		Agriculture		45	M
24	ShivaDanta Lamichane	Jamune 7	School	Teacher		52	M
25	Shree Prasad Shrestha	Jamune 8	Nepali communist Party, UML	Social worker	9846062269	32	M
26	Min Bahadur Gurung	Jamune 9		Agriculture		45	M
27	Dhananjaya Shrestha	Jamune 9		Agriculture		52	M
28	Narya singh ale	Jamune-1		Agriculture		66	M
29	Vijaya Raj Khanal	Jamune-1		Teacher		45	M
30	Khem Bahadur Thapa	Jamune-1Gunadi		Agriculture		40	M
31	Eman Singh	Jamune-2		Agriculture		46	M
32	Tirtha Raj Adhikari	Jamune-7		Agriculture		37	M
33	Ram Chandra Ghimire	Jamune-7	Bhanjyang National Daily	Journalist		37	M
34	Tara Bahadur Thapa	Jamune-8		Agriculture		75	M
35	Ram Bahadur Ale	Jamune-8		Agriculture		44	M
36	Manju Kafle	Jamune-8	Barahi women Multi-cooperative	Manager		26	F
37	Babu Ram Khanal	Jamune 1Gunadi,		Service	9846043109	53	M
Kanhu Shivapur VDC							
1	Ramesh Poudel	Kanhu Shivapur		Student		30	M
2	Dil Maya Thapa	Kanhu Shivapur		Agriculture		40	F
3	Hom Kumari Maji	Kanhu Shivapur 1		Agriculture		38	F
4	Juna Sahi	Kanhu Shivapur 1		Agriculture		30	F
5	Matisara Magar	Kanhu Shivapur 1		Agriculture		52	F

S.No.	Name	VDC, Ward	Office Organization	Profession,Level	Contact no.	Age	Sex
6	Shiv Lal Thapa Magar	Kanhu Shivapur 1		Agriculture	561455	53	M
7	Dal Bahadur Nepali	Kanhu Shivapur -1	Buddha Primary School	Teacher		34	M
8	Ram Bahadur Thapa	Kanhu Shivapur -1		Business		52	M
9	Mohan Kumar Thapa	Kanhu Shivapur -1		Agriculture		40	M
10	Phal Bahadur Thapa	Kanhu Shivapur -1		Agriculture		35	M
11	Tej Bahadur Thapa	Kanhu Shivapur -1		Agriculture		48	M
12	Nar Bahadur Thapa	Kanhu Shivapur -1		Agriculture		58	M
13	Bishnu Thapa	Kanhu Shivapur -1		Business		32	F
14	Manmaya Thapa	Kanhu Shivapur -1		Agriculture		42	F
15	Sushil Bahadur Thapa	Kanhu Shivapur -1			561708	18	M
16	Govardan Thapa	Kanhu Shivapur 3		Agriculture		39	M
17	Lal Bahadur Thapa	Kanhu Shivapur -3		Agriculture		63	M
18	Bal Bahadur Thapa	Kanhu Shivapur -3		Agriculture		73	M
19	Bhim maya Sarung	Kanhu Shivapur-1		Agriculture		38	F
20	Khem Bahadur Rana	Kanhu Shivapur-1		Agriculture		42	M
21	Til Bahadur Thapa	Kanhu Shivapur-1		Agriculture		53	M
22	Dambar Thapa	Kanhu Shivapur-1	Deepak Primary school	Teacher		34	M
23	Dal Raj Thapa	Kanhu Shivapur-3		Agriculture		25	M
24	Baburam Ale	Kanhu Shivapur-3		Agriculture		39	M
25	Nayan Singh	Kanhu Shivapur-3		Agriculture		45	M
26	Dan Bahadur Ale	Kanhu Shivapur-3		Agriculture		34	M
27	Shir Prasad Ale	Kanhu Shivapur-3		Agriculture		55	M
28	Shree Bahadur Magar	Kanhu Shivapur-3 Sewan		Agriculture		65	M
29	Om Bahadur Saru	Kanhu Shivapur 3		Agriculture		40	M
	<b>Keshavtar</b>						
1	Shaligram Bhattacharai	Keshavtar	UML	worker		30	M
2	Shur Bahadur	Keshavtar-7		Agriculture		40	M
	<b>Kihu</b>						
1	Vishnu Sigdel	Kihu-3		Teacher		42	M
2	Tej Prasad Wagle	Kihu-3		Student		16	M
3	Tika Ram Wagle	Kihu-3		Student		17	M
	<b>Kot Durbar VDC</b>						
1	Bir Bahadur Thapa	Kot Durbar	Arun Primary School	Teacher		33	M
2	Guru Dutta Ghimire	Kot Durbar	Kot Durbar	Secretary			M
3	Sher Bahadur Ale	Kot Durbar 1		Agriculture		37	M
4	Dil Singh Ale	Kot Durbar 1		Agriculture		49	M
5	Man Bahadur Thapa	Kot Durbar 1		Agriculture		60	M
6	Hom Bahadur	Kot Durbar 1	Shree Dharma Primary school	Teacher		53	M
7	Nar Bahadur Ale	Kot Durbar 1	Dharma Primary School	Teacher		45	M
8	Man Bahadur Jhyari	Kot Durbar 1		Agriculture		49	M
9	Gom Bahadur Ale	Kot Durbar 1		Agriculture		47	M
10	Bam Bahadur Thapa	Kot Durbar -1		Agriculture		60	M
11	Jhul Bahadur V.K	Kot Durbar 3		Agriculture		62	M
12	Sun Maya V.K	Kot Durbar 3		Agriculture		24	F
13	Motilal Thapa	Kot Durbar 4		Agriculture		44	M
14	Hari Bahadur Thapa	Kot Durbar 7		Agriculture		50	M
15	yam Bahadur Thapa	Kot Durbar 7		Social worker	9846067134	28	M
16	Nar Bahadur Thapa	Kot Durbar 7		Agriculture		56	M
17	Budhi Bahadur	Kot Durbar1		Agriculture		37	M
18	Padma Bahadur Ale	Kot Durbar-1		Agriculture		42	M
19	Likha Ram Lilami	Kot Durbar-1		Agriculture		20	M
20	Jhul Bahadur Ale	Kot Durbar-1		Agriculture		41	M
21	Tek Bahadur Ale	Kot Durbar-1		Agriculture		60	M
22	Bhim Bahadur Thapa	Kot Durbar-7		Agriculture		63	M
23	Padma Bahadur Thapa	Kot Durbar-7		Agriculture		52	M
24	Min Bahadur	Kot Durbar-7		Agriculture		35	M
25	Jak Bahadur Ale	Kot Durbar 1		Agriculture		26	M
26	Tanka Bahadur Thapa	Kotdurbar 7	ShreeShringa Sec. School	Teacher	561260	34	M
	<b>Majhakot VDC</b>						
1	Mohan Bir Gurung	Majhakot 5		VDC secretary		55	M
2	Om Bahadur Thapa	Majhakot 6		Ward President		56	M
3	Sher Bahadur Thapa	Majhakot 7		Agriculture		51	M
4	Ram Sharan sharma Gairhe	Majhakot 9	DEO	representative		54	M
5	Balram Marasini	Majhakot 9		Teacher		45	M
6	Krishna Hari Gaisha	Majhakot -9	Kyamin Sec. School	Teacher		40	M
7	Man Bahadur Rana	Majhakot-1		Agriculture		62	M
8	Narayan Lamsal	Majhakot-2	Shiva Primary school	Teacher		32	M
9	Rana Bahadur Gurung	Majhakot-6	Bal Niketan primary school	Teacher		40	M
10	Dhan Bahadur Gurung	Majhakot-6		Agriculture		52	M
11	Dharma Raj Singh	Majhakot8		Agriculture		59	M
12	Saraswati Pandey	Majhakot-9	Ganesh Primary School	Teacher		35	F
	<b>Pokhari Bhanjyang VDC</b>						
1	Amrit Prasad Pantha	Pokhari Bhanjyang	Pokhari Bhanjyang VDC	VDC secretary		33	M
2	Chaya Dutta Acharya	Pokhari Bhanjyang		Agriculture		50	M
3	Krishna maya Thapa	Pokhari Bhanjyang 1		Student		16	F
4	Laxmi Ale	Pokhari Bhanjyang 1		Student		14	F
5	Nani Maya Saru	Pokhari Bhanjyang 1		Agriculture		56	F
6	Man Kumari Thapa	Pokhari Bhanjyang 1		Agriculture		40	F
7	Seti Maya Pariyar	Pokhari Bhanjyang 1		Agriculture		50	F
8	Moti Saru	Pokhari Bhanjyang 1		Agriculture		40	F
9	Laxmi Kant Mishra	Pokhari Bhanjyang 1	Shree Sidda Beni L. sec. School	Teacher	9846062063	43	F
10	Yem Bahadur Ale	Pokhari Bhanjyang 1		Agriculture	9846055546	51	M
11	Bijuli Prasad Tiwari	Pokhari Bhanjyang 1		Agriculture		51	M
12	Jau Maya Thapa	Pokhari Bhanjyang 1		Agriculture		38	F



S.No.	Name	VDC, Ward	Office Organization	Profession,Level	Contact no.	Age	Sex
13	Dhan Pariyar	Pokhari Bhanjyang 1		Agriculture		60	F
14	Diwas Tiwari	Pokhari Bhanjyang -1		Agriculture		23	M
15	Dhruwa Raj Tiwari	Pokhari Bhanjyang -1		Agriculture		31	M
16	Baburam Wagale	Pokhari Bhanjyang -1		Agriculture		59	M
17	Bhakta Bahadur Thapa	Pokhari Bhanjyang 2	vice president	Agriculture		58	M
18	Chandra Bahadur Ranabhat	Pokhari Bhanjyang 2		Agriculture		60	M
19	Ganga Bahadur	Pokhari Bhanjyang 2		Agriculture		48	M
20	Megh Nath Poudel	Pokhari Bhanjyang 3		Agriculture		58	M
21	Ram Chandra Basnet	Pokhari Bhanjyang 3		Agriculture		49	M
22	Hari Bahadur Pantha	Pokhari Bhanjyang 4		Agriculture		47	M
23	Purna B.Ranabhat	Pokhari Bhanjyang Belbas		Agriculture		73	M
24	Yog Maya Ale	Pokhari Bhanjyang 1		Agriculture		37	F
25	Ram Nath Tiwari	Pokhari Bhanjyang-1		Agriculture		43	M
26	Prem Raj Pantha	Pokhari Bhanjyang-7		Overseer	561520	25	M
27	Gagan Singh Ale	Pokhari Bhanjyang 8		Agriculture		72	M
28	Lekh Bahadur Ran	Pokhari Bhanjyang-9	Ex-army, British	Social Service	560005	48	M
	Rani Pokhari VDC						
1	Chandra Nath Pandit	Rani Pokhari	Rani Pokhari VDC office	Service	9846026024	40	M
2	Tek Bahadur Thapa	Rani Pokhari 7		Agriculture		49	M
3	Chetra Bahadur Thapa	Rani Pokhari 7		Agriculture		52	M
4	Jhul Bahadur Thapa	Rani Pokhari 7		Agriculture		63	M
5	Mitra Singha Ghenga Thapa	Rani Pokhari 7		Agriculture		41	M
6	Narayan Prasad Gairhe	Rani Pokhari 9		Business		55	M
7	Nanda Biram Gaire	Rani Pokhari- 9		Agriculture		44	M
8	Ram Nath Subedi	Rani Pokhari- 9	NEA	Staff		45	M
9	Surya Prasad Gaire	Rani Pokhari- 9	Shree Deepak Secondary School	Teacher		39	M
10	Basu Dev Sharma	Rani Pokhari 9 Risin Patan		Agriculture		53	M
11	Phul Bahadur Rana	Ranipokhari 7		Agriculture		58	M
12	Durga Bahadur Thapa Magar	Ranipokhari 7		Agriculture		44	M
13	Hom Bahadur Thapa	Ranipokhari 7		Agriculture		32	M
14	Nar Bahadur Thapa	Ranipokhari 8		Agriculture		38	M
15	Raju Kumar Shrestha	Ranipokhari 8		Agriculture		37	M
16	Dil Bahadur	Ranipokhari 9		Agriculture		54	M
17	Bojh Raj Gairhe	Ranipokhari 9		Agriculture		63	M
18	Netra Lal Shrestha	Ranipokhari 9		Agriculture		62	M
19	Baburam Shrestha	Ranipokhari 9		Agriculture		42	M
20	Rekh Bahadur Thapa	Ranipokhari 9		Agriculture		52	M
21	Hasta Bahadur Thapa	Ranipokhari 9		Agriculture		59	M
22	Bishnu Bahadur Thapa	Ranipokhari 9		Agriculture		18	M
23	Rana Bahadur Thapa	Ranipokhari 9		Agriculture		42	M
24	Hom Bahadur Thapa	Ranipokhari 9		Agriculture		43	M
25	Pushpa Raj Gairhe	Ranipokhari 9	Janmorcha Nepal	Agriculture	560367	50	M
26	Aalta Bahadur Bishwakarma	Ranipokhari-2 Risin		Agriculture		45	M
27	Yem Bahadur Gurung	Ranipokhari-7		Agriculture		45	M
28	Hari Kumar Thapa	Ranipokhari-7		Agriculture		35	M
29	Pushpa Raj Gaire	Rani Pokhari-9	Jan Morcha Nepal			50	M
30	Ban Bahadur Ale	Ring Dada 3		Agriculture		33	M
31	Som Bahadur Thapa	Risin 7		Student		18	M
32	Sek B.	Risin Patan		Agriculture	5570130	58	M
33	Jhul Bahadur	Risin Patan-9		Agriculture		44	M
34	Ran Prasad Shrestha	Risin Patan-9		Agriculture		52	M
35	Til Bahadur Thapa	Risin Rani Pokhari 7		Agriculture		48	M
36	Krishna Ram Thapa	Risin Rani Pokhari 7		Agriculture		64	M
37	Dhan Bahadur Thapa	Risin Rani Pokhari 7		Agriculture		22	M
38	Madhav Gairhe	Risin Ranipokhari		Agriculture		28	M
39	Bai Bahadur Thapa	Rising 1		Agriculture		25	M
40	Yuv Raj Ale	Rising 1		Agriculture		31	M
41	Bum Bahadur Ale	Rising 1		Agriculture		48	M
42	Dan Bahadur Shrestha	Rising Rani Pokhari 2		Business	561260	25	M
	Vyas Municipality						
1	Jhalak Nath	Vyas N.P	DDC	Service		42	M
2	Arjun Sunar	Vyas N.P		Business			M
3	Amrit	Vyas N.P					M
4	Hem Kant Lamsal	Vyas N.P 11 subarna Marga		Service	9846043111	56	M
5	Kumar Kanchan G.C	Vyas N.P	Vyas N.P Municipality	Section officer	59003		M
6	Badri Nath Neupane	Vyas N.P 5 damauli	DDC	Service		50	M
7	Sita Adhikari	Vyas N.P 1		social mobiliser	9846055608	30	F
8	Ram Maya Kunwar	Vyas N.P 1		Agriculture		51	F
9	Devendra Raj Hamal	Vyas N.P 1	Nepal Bar Association, Tanahu	Advocate	9846043115	58	M
10	Arjun Giri	Vyas N.P 1	Vyas N.P Municipality	Service		43	M
11	yam Bahadur Thapa	Vyas N.P 1	Vyas N.P Municipality	Service	9846062886	30	M
12	Shankar Pariyar	Vyas N.P 1		Furniture	561660	40	M
13	Arjun Lal Batas	Vyas N.P 10		Engineer		26	M
14	Bel Bahadur Thapa	Vyas N.P 10		Agriculture		46	M
15	Babu Ram Bhandari	Vyas N.P 10	District Administration office	Service	9846043452	31	M
16	Sushil Prasad Wagle	Vyas N.P 10	Adikavi Bhanu Bhakta campus	Vice Principal	9846062374	31	M
17	Krishna Ram Wagle	Vyas N.P 10				54	M
18	Pradeep Kafle	Vyas N.P 10		Journalist	560232	33	M
19	Shankar Narayan Shrestha	Vyas N.P 10	Nepali Communist Party, UML		9856024448	39	M
20	Rabin Poudel	Vyas N.P 10	Tanahu Awaj Weekly	Journalist	9846040375	33	M
21	Purusottam Kafle	Vyas N.P 10		Agriculture		64	M
22	Babu Ram Wagale	Vyas N.P 10		Business		44	M
23	Bhim B. Adhikari	Vyas N.P -10	District Administration office	Service	9846043090	30	M
24	Harka Man Shrestha	Vyas N.P 10 Damauli		Agriculture	6040036	58	M

S.No.	Name	VDC, Ward	Office Organization	Profession, Level	Contact no.	Age	Sex
25	Nil Bahadur Thapa	Vyas N.P 10 Damauli	Nepali Congress	social worker	560532	56	M
26	Narhari Khanal	Vyas N.P 11		Social worker		51	M
27	Badri Hari Bhattarai	Vyas N.P 11		Social worker	560475	60	M
28	Bishnu Maske	Vyas N.P 11	Tanahu Awaj Weekly	Journalist	560812	21	M
29	Santosh Bhattarai	Vyas N.P 11	School	Student	560089	20	M
30	Arjun Poudel	Vyas N.P 11	Vyas N.P Municipality	Service		25	M
31	Baikuntha Neupane	Vyas N.P 11	ManShantiNikunja	Service	9846027394	46	M
32	Yuv Raj Neupane	Vyas N.P 11		Agriculture	560797	62	M
33	Laxman Kunwar	Vyas N.P 1Galubeshi		Agriculture		21	M
34	Govinda Pantha	Vyas N.P 2	Nepal Bar Association, Tanahu	Advocate		42	M
35	Ram Hari Tiwari	Vyas N.P 2	Rajdhani Daily	Agriculture	9846040429	24	M
36	Khemraj Adhikari	Vyas N.P 2		Business		31	M
37	Madan Wagle	Vyas N.P 2	National News Agency	Journalist		28	M
38	Santa Bahadur Koirala	Vyas N.P 2	GorkhaPatra National Daily	Journalist		27	M
39	Balram Ghimire	Vyas N.P 2		Business	561496	41	M
40	Bum Bahadur Thapa Magar	Vyas N.P 2		Retired from service		48	M
41	Shiva Hari Dhital	Vyas N.P 2		Journalist	561551	20	M
42	Shiv Kumar Shrestha	Vyas N.P 2		Business	560627	50	M
43	Ram Nath Bhattarai	Vyas N.P 2		Teacher	561255	50	M
44	Thakur Prasad Pantha	Vyas N.P 2 Damauli		Agriculture	607034	64	M
45	Puma Bahadur Adhikari	Vyas N.P 3		Student	89460	21	M
46	Krishna Prasad Sharma	Vyas N.P 3		Student	53838	20	M
47	Salunu Godar	Vyas N.P 4	Nepali Congress,	First Secretary		54	M
48	Surendra Bahadur	Vyas N.P 4	Nepali communist Party, UML	Agriculture		35	M
49	Bhoj Raj Khanal	Vyas N.P 7		Agriculture		68	M
50	ShreePuma Chandra Khanal	Vyas N.P 8 Damauli	Nepali Congress,	congress district secreta	561180	52	M
51	Bhim Bahadur	Vyas N.P 9				30	M
52	Ram Chandra Pokharel	Vyas N.P 9	Ex-DDC President	Social worker		62	M
53	Samundra Poudel	Vyas N.P N. P.- 10	Adarsa Samaj national daily	Journalist	9846046830	17	M
54	Ram Bahadur V. k	Vyas N.P N.P.- 1		waged-basis		70	M
55	Prakash Bhattarai	Vyas N.P N.P.- 1	INSEC	Representative	561063	23	M
56	Basanta Kandel	Vyas N.P N.P.- 1, Tan	Pokhara FM	Journalist	9846055190	25	M
57	Dr. Raghunath Neupane	Vyas N.P N.P.- 10	Civil society	Medicine	561123	56	M
58	Sandesh Raj Bhandari	Vyas N.P N.P. 10 Dar	Bhanjyang Daily	Reporter	560907	21	M
59	Chabi Lal Shrestha	Vyas N.P N.P.- 11		contractor	560992	62	M
60	Mohan Kumar V.K	Vyas N.P N.P.- 2		Business	560136	45	M
61	Santosh Br. Stha	Vyas N.P N.P.- 2		Hotel	560143	29	M
62	Poshn Pandey	Vyas N.P N.P.- 2	DDC	Overseer		25	M
63	Padma Raj Khanal	Vyas N.P N.P.- 4	REDP	service	560435	32	M
64	Padma Raj Shrestha	Vyas N.P N.P.- 8		Agriculture	560697	46	M
65	Govind Lamsal	Vyas N.P N.P Damauli		Service	561522	39	M
66	Pratap Lal Shrestha	Vyas N.P N.P.- 1	Nepal Communist Party, Tanahu	Secretary	560134	46	M
67	Deepak Gurung	Vyas N.P N.P.- 1	REDP	service	560435	28	M
68	Tribhuvan Shrestha	Vyas N.P N.P.- 10	NGO Federation	Secretary	9846055272	32	M
69	Vishnu Prasad Aryal	Vyas N.P N.P.- 10	DADO	Executive Agriculture De	560130	50	M
70	Shankar Pandey	Vyas N.P N.P.- 10		Business	60683	41	M
71	Uttam Neupane	Vyas N.P N.P.- 11	Administaration	service	560583	36	M
72	Ghana Shyam Khadka	Vyas N.P N.P.- 11	Kantipur Publication	Journalist	560933	27	M
73	Lal Bahadur Ale	Vyas N.P N.P.- 2	Ex-army, British		560372	69	M
74	Jun Raj Shrestha	Vyas N.P N.P.- 2		Politics	560525	52	M
75	Brihaspati Dahal	Vyas N.P N.P.- 2		Agriculture	560551	71	M
76	Tul Bahadur Sapkota	Vyas N.P N.P.- 3		Driver	561052	24	M
77	Man Ballav	Vyas N.P N.P.- 3	write-read			22	M
78	Rabindra Acharya	Vyas N.P N.P.- 8		Agriculture		60	M
79	Shuk Dev Regmi	Vyas N.P.- 1	District Administration office	Service	9846029340	36	M
80	Shailgram Sharma	Vyas N.P.- 10		Agriculture		50	M
81	Udaya Pandey	Vyas N.P.- 10 Shanti Nagar		Service		36	M
82	Manish Lamsal	Vyas N.P 11	School	Student	560089	20	M
83	Krishna Giri	Vyas N.P.- 7	District Administration office	Service	9846055659	40	M
84	Les Bahadur Pathak	Vyas		Agriculture		38	M
Other VDCs							
1	Dhan Singh Thapa	Arundaya VDC 6		Agriculture		45	M
2	Dev Maya Thapa	Bhakyam 1		Agriculture		45	F
3	Raju Acharya	Bhanu VDC 3, Tanahu		Journalist	9851007190	29	M
4	Lila Bahadur	Dhorfirdi VDC				37	M
5	Govinda B. Bhujel	GhansiKuwa VDC -1		waged-basis		31	M
6	Basanta Jwarchan	DuleGauda VDC		Business		42	M
7	Bhakta Bahadur Ranabhat	Ramjhakot VDC 4		Agriculture		68	M
8	Hari Raj Kandel	Ramjhakot VDC 5		Agriculture	561278	38	M
9	Chandra kanta Wagle	Kyamine VDC		Staff		33	M
10	Kamal Mohan Ghimire	Khaireritar VDC	Damauli college	Vice Principal		28	M
11	Basanti Bastola	Khaireritar VDC- 7		Journalist		20	F
12	Bishnu Prasad Dhakal	Sunhdhara VDC 3		Advocate	9846020184	32	M
13	Shankar Prasad Gaire	Sapung-2	write-read		560442	28	M
14	Bum Bahadur Thapa	Setang 3		Agriculture		53	M
15	Khem Bahadur Tilani	Setang 3		Agriculture		48	M
16	Ashok Baral	Lamjung	I.D.E	Engineer		27	M
17	Kapil Dev Gyawali	Mulmi-7	REDP	Staff	560435	30	M
18	Ram Bahadur Ale	Naraynpur 8		Agriculture		48	M
19	Ram Bahadur Thapa	Panamdi 8 Gunadi		Agriculture		43	M
Local Offices							
1	Bishnu Prasad Dhakal	DDC, Tanahu	DDC	LDO	9856027533	44	M
2	Moti prasad Paudel	BBMC	BBMCBelchautara	Campus Chief	570240	48	M
3	Bimala Wagle		Women Development office		560142	34	F

S.No.	Name	VDC, Ward	Office Organization	Profession, Level	Contact no.	Age	Sex
4	Surya Prasad Adhikari		DEO, Tanahu	Service		44	M
5	Chiva Thapa					36	M
6	Janak Kumar Shrestha	Kathmandu	Media		9841343519	25	M
7	Arjun Prasad Subedi	District Administration	DAO	(Kayam Mukayam) CDO	560109	43	M
8	Muktinath Pandit	District Health office	District Health office	Service	560119	48	M
9	Udaya B. Panta	District Police Office		Police	560133	43	M
10	Ir. Bishnu Hari Thapa	District Police office,	District Police office	Service	560199	39	M
11	Rajendra Kumar Kunwar chetri	Kaski Pokhara	Drinking water supply and sanitation office			58	M
<b>NEA</b>							
1	Vishnu Bahadur Singh	NEA	NEA/PDD	Chief	4370432	53	M
2	B. R. Regmi	NEA	NEA	G.M	4424363	53	M
3	Nasib M. Pradhan	NEA	NEA	Engineer		36	M
4	Radesh M. Pradhanang	NEA	NEA	Engineer		53	M
5	Narayan Bahadur Khadka	NEA	NEA	Vice Administrative office	5580374	45	M
6	Keshav Shrestha	NEA	NEA	service		50	M
7	Giridhar Hada	NEA	NEA	service		42	M
8	Anu Raj Bhandari	NEA, ESSD	NEA	Environmental Engineer	4378074	44	F
9	Madhav P. Khakurel	MMHEP, NEA	NEA	Project Director	5552387	54	M
10	Ganesh Prasad Neupane	Kathmandu	NEA, Environment Departmen	Environmental	4251845	35	M
11	Shiv C. Jha	ESSD, NEA	NEA	Engineer	4226730	53	M
12	Amrit Gurung	FJV Lamjung	NEA	Driver		41	M
13	Satis Devkota	NEA	NEA	Economist		34	M
<b>JICA Study Team</b>							
1	Yoshimasa Ishii	JICA	JICA Study Team	Team Leader		54	M
2	Hiroshi Murashige	JICA Study Team	JICA S/T	Engineer		46	M
3	Akio Kuwhara	JICA Study Team	JICA S/T	Engineer		31	M
4	Toshiko Shimada	JICA Study Team	JICA S/T	Social Development Consultant		35	F
5	Hironobu Nishimiya	JICA Study Team	JICA S/T	Engineer		40	M
6	Kanji Usni	JICA, Thailand	JICA Thailand	Advisor	6618489183	36	M
7	Kaonu Suzuki	JICA, Tokyo	JICA, Tokyo	JICA staff		40	M
8	Jyack P.	Australia	JICA Study Team	Consultant		67	M
9	Sourab Rana	Maharajgunj, KTM	JICA, Nepal	Program Manager	5552711	36	M
10	JIT Gopal Shrestha	Chapagaon	JICA	Driver		29	M
11	Pashupat Shrestha	Chapagaon	JICA	Driver		25	M
12	Toran Sharma	Kathmandu	NESS	Local Consultant		52	M
13	Arjun Poudel	Kathmandu	NESS	Local Consultant		48	M
14	Ram kumar sharma	Kathmandu	NESS	Local Consultant		53	M
15	Madan Koirala	Kathmandu	NESS	Local Consultant		50	M
16	Shushila Regmi	Kathmandu	NESS	Local Consultant		24	F
17	Pradip poudel	Kathmandu	NESS	Local Consultant		23	M

## Program Schedule of First Stakeholder Meeting in Damauli

## Program Schedule of First Stakeholder Meeting in Damauli

- ✧ Chairperson: Local Development Officer (LDO)
- ✧ Master of Ceremony: Mr. Ganesh Neupane (NEA staff member)

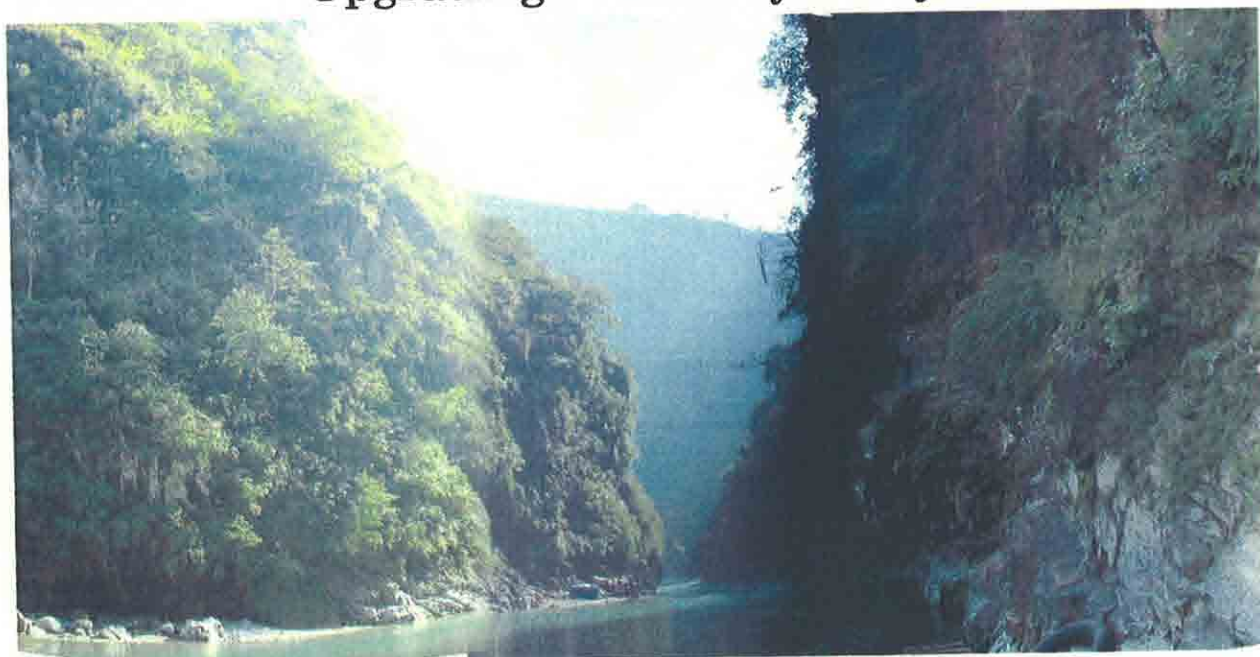
No.	Time	Hrs	Program	Presenters
	10:30-11:00	0:30	Registration	
1	11:00-11:15	0:15	Opening address & Background of the Project	NEA
2	11:15-11:30	0:15	Review of EIA conducted by NEA	NEA
3	11:30-11:45	0:15	Overview of the JICA Study (Upgrading Feasibility Study)	JICA Study Team
4	11:45-12:05	0:20	Project layout under the JICA Study	NEA
5	12:05-12:35	0:30	EIA Scoping and issues under the JICA Study	JICA Study Team
6	12:35-12:55	0:20	Comments from line agencies	—
7	12:55-13:55	1:00	Comments from VDCs/Municipality and other representatives	—
8	13:55-14:10	0:15	Snacks	
9	14:10-15:10	1:00	Discussion	—
10	15:10-15:20	0:10	Vote of thanks	NEA
11	15:20-15:30	0:10	Closing remarks	LDO

## Brochure of First Stakeholder Meeting

**Brochure of First Stakeholder Meeting**

**The Upper Seti (Damauli) Storage Hydroelectric Project**

**1<sup>st</sup> Stakeholder Meeting  
for  
Upgrading Feasibility Study**



**Damauli, Tanahu District  
June 2 2006/Jesth 19 2063**

**Kathmandu  
June 7 2006/Jesth 24 2063**

**Nepal Electricity Authority (NEA)  
Japan International Cooperation Agency (JICA)**

## 1. Background of the Project

The Government of Nepal is implementing rural electrification and hydroelectric development projects by using its abundant water resource in the Tenth Plan (2002-2007) to support for poverty reduction. Present total installed capacity in Nepal is 614MW as of July 2005. Hydropower's share is 90 % of the total installed capacity which is 99 % of annually generated energy. On the other hand, power demand in the country has been growing approximately at a rate of 8 % per annum in recent ten year period (1995 to 2005).

The run-off-river (ROR) type hydropower plants dominate the Nepal's hydro capacity. Because ROR type hydropower plants can only marginally regulate river discharge for power generation, Nepal has been suffering from shortage of power in the dry season. Hence, Nepal Electricity Authority (NEA) has considered that it is necessary to develop storage type of hydropower plants which can seasonally regulate river discharge for generation in the dry period.

NEA conducted studies on storage type hydropower projects and identified *Upper Seti Storage Hydroelectric Project* as a potential one. The Government of Nepal requested the Government of Japan to implement an upgrading feasibility study (hereinafter referred to the Study) under the technical assistance of Japan International Cooperation Agency (JICA). The Study commenced by JICA Study Team in February 2005.

### ***Outline of the Upper Seti Storage Hydroelectric Project (NEA's Study)***

- Located in Tanahu District
- A dam height of 136 m
- Design Discharge  $141\text{m}^3/\text{s}$
- Installed capacity of 122 MW
- A storage Project with a reservoir length of 27.5KM and an area of  $7.6\text{km}^2$  located on the Seti River
- Underground Powerhouse

## 2. Objective of the Study

The Study aims at formulating the optimum plan for development and assessing the technical economical and financial, and environmental viabilities of the Project.

## 3. Schedule of the Study

The Study commenced in February 2005 and it to be completed by June 2007.



#### 4. Status of NEA Environmental Impact Assessment (EIA)

An Environmental Impact Assessment (EIA) for the Project was conducted by the NEA including a one-day Public Hearing in Damauli on January 25, 2004. The EIA report has been formally issued and is in the process of review by Ministry of Water Resources (MOWR). After review by MOWR, it will be submitted to the Ministry of Environment, Science and Technology (MOEST) for its approval. This approval is expected to be within 2006 which will complete the formal EIA process for Nepal.

Survey works are presently underway by a NEA consultant on the Project's 220kV, 45 km Transmission Line from Damauli to Bharatpur. Initial Environmental Examination will be conducted by the JICA Study Team. A full-scale EIA will be carried out by Environment and Social Studies Department of NEA from late 2006 to early 2007.

#### 5. Range of the Study Area

The Study area of the Upper Seti Hydroelectric Storage Project is located in Tanahu District in Central Nepal while the transmission line route is from the powerhouse site to the existing main transmission lines in Bharatpur. The Study area is assumed as follows:

- |  |                               |
|--|-------------------------------|
| ✧ The Watershed:                       | Approx. 1,502 km <sup>2</sup> |
| ✧ The Reservoir area and its vicinity: | Approx. 120 km <sup>2</sup>   |

The Project in the phase of construction and operation is likely to bring about direct and indirect impacts to the following areas:

- The *dam site and associated access roads and camps* (i.e. location of powerhouse, construction facilities)
- The *Lower Reservoir* (downstream part of the reservoir), an approximately 15 km Seti River stretch that has limited habitation, is forested, and has narrow gorges, and
- The *Upper Reservoir* (upstream part of the reservoir), an approximately 12 km Seti River stretch that are relatively flat elevated and irrigated rice terraces and lower fertile Seti River front lands and land adjacent to tributary streams scattered settlements and the semi-urban of Bhimad Bajar community



- *Downstream of the dam site*, including river front lands of the main Seti River with limited access, through changes in river flows on a daily basis

## **6. Existing Environmental and Socio-economic and Cultural Condition**

Based on the EIA Study Report of NEA, the existing environmental and socio-economic and cultural conditions in the project area are recognized as follows.

### **6-1. Physical Environment**

- The project is located in the Seti River and the dam is about 3 km upstream from the confluence with Madi.
- The total catchment area of the Seti River basin down to the dam site is 1,502 km<sup>2</sup>
- An average maximum temperature in the Project Area ranges from 25 to 32 degree centigrade and an average minimum temperature from 3 to 17 degrees in centigrade
- The average annual precipitation of the Project Area is approximately 2,973 mm
- The average annual run-off of the Seti River at the dam site is at 107.2 m<sup>3</sup>/s
- The eroded riverbank material in the Middle Mountains is the source of high sediment flow in the Seti River.
- No industry or heavy traffic in the Project Area

### **6-2. Biological Environment**

- Different types of forest exist within the project area include National and Community Forest.
- Vegetative cover is good on the left bank of the inundated area and at the higher elevations above the proposed inundation levels.
- Dominant plant species along the Seti River banks are Khair, Saj, Simal, Khirro, Karam, Bot dhayero, Dabdab and Khaniyo.
- Six Community Forests and few Orchards of Bamboo and Sisoo exist in the Reservoir Area
- Various habitat for mammals, birds, reptiles and amphibians exist in forested areas
- 32 species of fish are in the Seti River including torrent minnows, Copper Mahseer, Mahseer, Stonerollers and Baghi
- Approximately 11,440 kg of fish are caught by local Bhote and part time fishermen, some 85 percent of which for sale locally and 15 percent for self-consumption
- 35 species of phytoplankton, 13 species of zooplankton, and 23 species of insects were recoded along the Seti River within the Project Area

### 6-3. Socio-economic and Cultural Environment

- Located in Tanahu District with a population of 315,237
- The Project Area extends into eight VDC namely Bhimad, Majhakot, Chhan, Rani Pokhari, Jamune, Kot Darbar, Kahun Shivapur, Pokhari Bhanjyang, and one municipality, i.e., Vyas (Damauli) Municipality
- The predominant ethnic group is Magars (33%), followed by Brahmins (18%) and Newars (14%). The remaining are Gurung, Chetri and minority groups.
- Minority groups including Bhote, and Dalit such as Kami and Damai are present in the project affected area.
- Irrigated and wet season agriculture and livestock are the mainstays of the large majority of the population in Project Area
- Vyas (Damauli) Municipality is the main market in the Project Area, while Bhimad Bazar is the primary market center at the upstream end of the proposed reservoir
- Access tracks to the main highway exist including four suspension bridges across the Seti River.

### 7. Potential Impacts to be investigated under the Study

During February 2005 and again in March, 2006, the JICA Study Team completed a review of the EIA and prepared a revised Scoping Document as per the JICA Guidelines on Environmental and Social Considerations. A separate supplemental EIA study into environmental and social implications including resettlement has been initiated with



a local environmental consultant. The separate supplemental EIA study focuses on the following issues.

#### 7-1. Natural Environment

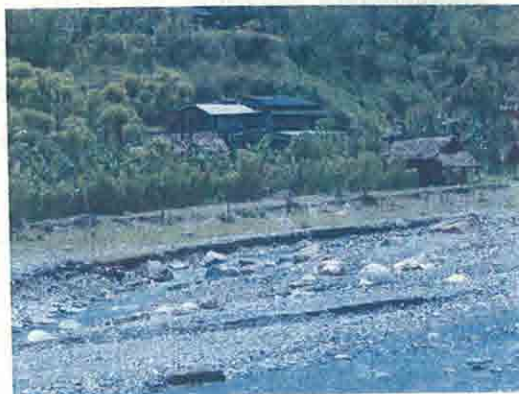
- Impacts on the topography and land use due to creation of reservoir
- Impact on the topography and land use due to construction of permanent and temporary structures
- Impacts on the downstream by the reservoir operation
- Impacts on the water quality
- Impacts on vegetation and forestry
- Impact on wildlife resources



- Impacts on aquatic ecology and fisheries

## **7-2. Socio-economic and Cultural Environment**

- Involuntary resettlement
- Loss of arable land
- Impacts on livelihood
- Impacts on the social and cultural aspect in the reservoir area
- Impacts on vulnerable groups
- Impact on the social activity in the downstream of the dam site due to release of the water



## **8. Supplemental Studies**

The supplemental environmental study will be carried out in accordance with the requirement of the JICA Guidelines. The main items of the supplemental study are described below:

### **8-1 Natural Environment**

- Examination of possibility of eutrophication in the reservoir
- Grasp of the overall conditions of the watershed and preparation of watershed management plan
- More extensive vegetation and forestry studies
- More extensive wildlife studies
- More extensive aquatic ecology and fishery studies
- Survey on transmission line routes
- Preparation of the framework for environmental management plan

### **8-2 Socio-economic and Cultural Environment**

- Study for further development of the resettlement action and social action plans
- Study on the impacts of social and cultural aspects
- Survey on transmission line route
- Preparation of the framework for environmental management plan

## 9. Stakeholder Meetings

In accordance with the JICA's Guidelines on Environmental and Social Consideration, stakeholders meetings are being arranged through the offices of NEA with the assistance of JICA Study Team. Stakeholder Meetings include discussions with the local people in the project affected area and with the institutional representatives in Kathmandu. The objectives of stakeholders meetings are as follows:

- (i) to explain and disclose information regarding the Study and environmental and social aspects and report on current progress on various Project activities
- (ii) to obtain concerns, opinions, suggestions and feedbacks particularly from the affected local people of the Project Area

The Stakeholders Meetings will be conducted three times in Damauli and Kathmandu respectively as per the schedule given in the following table.

	Venue	Date	Venue	Date	Program highlight
1 <sup>st</sup>	Damauli	June 2 (Jesth 19)	Kathmandu	June 7 (Jesth 24)	Outline of the Study
2 <sup>nd</sup>	Damauli	November (Kartik /Mansir)	Kathmandu	November (Kartik/ Mansir)	Results of the surveys
3 <sup>rd</sup>	Damauli	February (Mag/Fagun)	Kathmandu	February (Mag/Fagun)	Preliminary design, Environmental management Plans, and Resettlement Plans

## Presentation Material in Damauli

## Background of Upper Seti (Damauli) Storage Hydroelectric Project

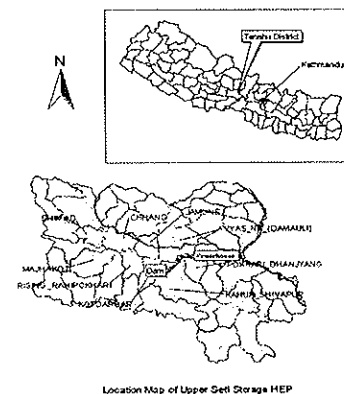
1

- At present the Integrated Nepal Power System (INPS) has a capacity of 610 MW out of which about 80% is from hydro.
- Hydropower projects in Nepal are mostly of run off the river type or having a small peaking capacity.
- Shortage of power in dry season
- Identification and Feasibility of Storage Projects was done to select potential storage type of hydropower projects

2

- The feasibility study of Upper Seti Storage Hydroelectric Project was completed in 2001.
- Additional studies were conducted in 2004.
- An agreement was signed between Japan International Cooperation Agency (JICA) and NEA to conduct **Upgrading** feasibility study of this project under its technical assistance.
- The agreement was signed on 5th of October, 2004 in Kathmandu. The upgrading feasibility study is being done and is expected to completed by May,2007.

3



Location Map of Upper Seti Storage HEP

4

### Salient features of the Project

Dam type	:	Roller Compacted Concrete
Dam Height	:	136 m
Full Supply Level	:	425.00 masl
Minimum Operating Level	:	370.00 masl
Tail-water Level	:	308.20 masl
Gross Storage	:	331.7 Million m <sup>3</sup>
Live Storage	:	270.3 Million m <sup>3</sup>
Diversion Flood	:	1435 m <sup>3</sup> /sec (1 in 5 years flood)
Headrace Tunnel	:	84 m long 8 m diameter
Design Discharge	:	141 m <sup>3</sup> /sec
Installed Capacity	:	122 MW
Annual Generation	:	605 GWh
Estimated Cost	:	215.13 Millions US\$
Transmission line	:	220 kV, 43 Km long up to New Bharatpur Substation

5

### Upper Seti Storage Hydro Power Project

### Review of EIA prepared by NEA

6

### 1.0 METHODOLOGY

- The EIA process has been prepared in accordance to the Environment Protection Rule, 1997, Environment Protection Act, 1997 and National EIA guidelines, 1993.
- World Bank Directives for environmental assessment have been also referred as guidelines.

### 2.0 SCOPING DOCUMENT AND TERMS OF REFERENCE

Scoping Document and Terms of references was prepared and approved in January 2003. (2059/9/22)

7

Category A High Impact Zone	Category B Moderate Impact Zone	Category C Low Impact Zone
Reservoir area (contour level FSL 425+10 m ), dam site and powerhouse site, access road and construction sites, borrow areas	Adjoining villages near to the places mentioned in category A	Bhimad VDC, Kahun Shivpur VDC, Risin Rani Pokhari VDC, Jamune VDC, Kotdurbar VDC, Majhkot VDC and Chhan VDC, Pokhari bhanjyan VDC) Vyas Municipality
	5 km downstream from the powerhouse site (Vyas Municipality, Kahun Shivpur and Pokhari bhanjyan VDC)	

8

### 3.0 Baseline data collection

Multidisciplinary team conducted Extensive Field work in January 2003, which included three weeks of household survey.

#### 3.1 Physical Environment

- Extensive field survey (walkover) conducted
- Hydrology information was taken from Data recorded by the 24 meteorological stations in and around the project area. Climatological data have been summarized from Index station at Khairanitar.
- Water Sampling conducted in four stations

9

### 3.2 Biological Environment

- Walkover survey along the access road as well as in and around the dam site and powerhouse sites.
- Vegetation and forest types were identified based on species composition and dominance.
- The forest sampling done with a quadrat size of 20 m x 20 m by species area curve method.
- Information on forest resources was also collected by an anthropological field technique similar to RRA (Rapid Reconnaissance Appraisal).
- Indirect evidences such as droppings, pugmarks, footprints and scales of the animals were used for identification of fauna in the project area.
- Birds were also identified by their calls.
- Local people from the project area were also interviewed using a semi-structured questionnaire

10

### Fisheries

- The Fisheries component of the EIA was sub-contracted to a Nepali Expert.
- An extensive field investigation was done by the expert to establish baseline data on the aquatic ecosystem, the impact on the fish habitat and populations and provide preliminary recommendations

11

### 3.3 Socio-economic and Cultural Environment

Baseline information was gleaned during two weeks field survey conducted by using the following techniques:

- Questionnaire interviews,
- Checklists,
- Focus group discussions,
- Observation of the sites.

Households (113) were surveyed using structured questionnaires to obtain the baseline information

12

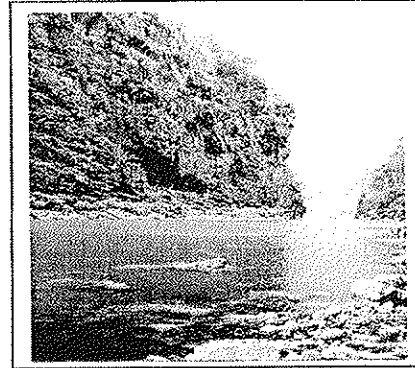


## 4.0 EXISTING BASELINE CONDITIONS

### 4.1 PHYSICAL ENVIRONMENT

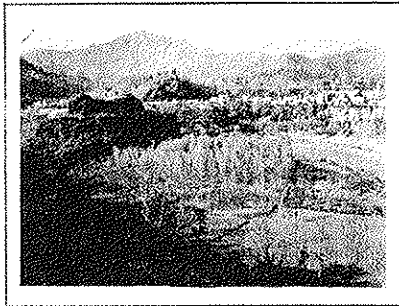
- The Upper Seti Storage Project is located in the Gandaki River Basin in western development Region of Nepal.
- The total catchment of the basin up to the intake site is 1501 km<sup>2</sup> in which about 129 km<sup>2</sup> is covered with snow. Glaciers lakes are not identified on this basin.
- The general condition of the watershed of the Tanahu district is indicated as moderate in the GIS Data Base document published by the ICIMOD.
- Although the watershed of the Seti River is relatively stable around the impact area and mostly along the reservoir stretch, the areas at some places along the reservoir area like Bhimad Bazaar, along the tributary of Wanten Khola is very poor.
- Surface geology of these critical areas appears to be very poor and mainly consists of cemented gravel with sandy to silty matrix

13



Location of the dam

14



Slopes are under risk of slope failure along the bank of Seti river over Bhimad Bazar

15

### 4.2 Biological Environment

- The Upper Seti Storage Hydroelectric Project lies in the sub-tropical region of the middle mountains physiographic zone and host different types of forest.
- The forest vegetation of the Project area has been categorized mainly into national and community forest.
- The dominant plant species recorded in the project area (reservoir, dam, powerhouse, access road) are Khair (*Acacia catechu*) in association with Saj (*Terminalia alata*), Simal (*Bombax ceiba*), Khirro (*Sapium insigne*), Karam (*Adina cordifolia*), Bot dhayero (*Lagerstroemia perviflora*), Dabdabe (*Garuga pinnata*), Khaniyo (*Ficus semicardata*) etc Bel (*Aegle marmelos*), Simal (*Bombax ceiba*), Khalluk (*Diospyros malabarica*), Dumri (*Ficus racemosa*), Bot Dhayero (*Lagerstroemia perviflora*), Rohini (*Mallotus philippensis*), etc.

16

Continued

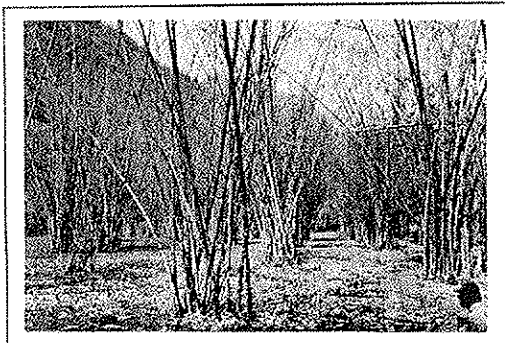
- The forest types in the project area Riverine *Acacia catechu*, *Terminalia alata* and *Shorea Robusta* forest
- There are six community Forests in the reservoir area .
- 14 species of mammals exists in the project area.
- The EIA study of the fish fauna revealed that there are 32 species of fish. Copper Mahseer and Mahseer, Stoneroller and Baghi are the common species found.
- Out of 32 species recorded or reported from Seti River 5 were long distance migrant, 6 were midrange migrant and 21 were residents in habit.

17



Shorea Robusta forest on the upper slopes of the Seti river

18



Bamboo plantation at the upstream of Damsite to be inundated

19

### 4.3 Socio-economic and Cultural Environment

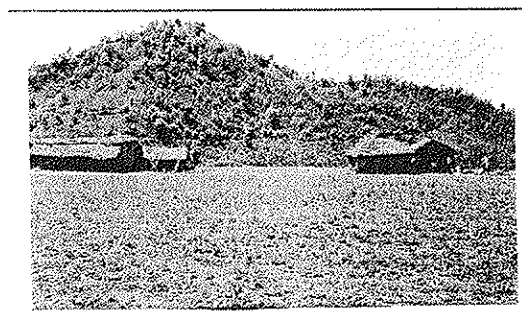
- The Upper Seti Hydropower Project lies in the Tanahu District of Western Development Region. The district has an area of 1546 km<sup>2</sup>
- The main project facilities and the reservoir will extend into eight VDCs of Tanahu district namely Bhimad VDC, Kahun Shivpur VDC, Kotdarbar VDC, Majhkot VDC, Chhan VDC, Risin Rani Pokhari VDC, Jamune VDC and Vyas Municipality. The Pokharibhanjyan VDC will be affected by the peaking flow variations.

20

Continued

- Magars are the dominant caste followed by Brahmin and Newars. Other ethnic/caste groups in the project area are Gurung, Chhetri and other occupational castes like Kami, Damai and Kumal.
- The overall literacy rate of the sampled population is estimated at 78%.
- Agriculture and livestock is the main stay of a large majority of the people in the project area providing both employment and livelihood.
- The project area is comparatively well endowed with good social infrastructure (health posts, police posts, schools, campuses).

21



A settlement of Bandarkuna to be completely resettled

22



The environmental team interviewing the relocatees

23

## 5.0 IMPACT ASSESSMENT

### 5.1 Physical Environment

- The project will permanently acquire total area of 917 ha out of which 162 ha is agriculture land and 230 ha of forest.
- Peaking discharges will substantially change the natural daily flows from 141 m<sup>3</sup>/s for six hours in dry season to no flow condition during remaining hours of the day.
- The fluctuation of the reservoir water levels of up to 55 m create will increase the existing risk of stability and shoreline erosion. (Vulnerable areas are Bhimad Bazaar, Risin Patan and Jaruwapani)

24

## 5.2 Biological Environment

- Site clearing activities at the project site and creation of reservoir will result in the loss of 460 ha of vegetation consisting of 230 ha of forest and 230 ha of shrubland and greybeard area. Out of 230.5 ha of inundated forestland, 25 ha. of good riverian Khair forest, 18 ha. Terminalia forest, 40 ha. Open mixed forest, 142 ha Deciduous riverian forest and 5.5 ha sisoo plantation.
- Altogether 28 ha of six Community forest will be inundated
- 32 species of fish is found in the Seti river will be affected by the project construction.
- Compensation flow of 2.4 m<sup>3</sup>/s (10% minimum average flow) will have to be released downstream of the dam during non-peak hours for the survival of aquatic ecosystem.

25

## 5.3 Socio-economic and Cultural Environment

- The primary adverse environmental impact will be from the relocation of 45 (SPAF) households, which will have to be resettled.
- Approximately 162 ha of agricultural land will be inundated which will lead to loss of crop production, which amounts to 770 tones per year
- This will affect another 324 households.

26

## Beneficial Impacts

### The main benefits are:

- job creation;
- opening the area to market forces and goods mobility;
- provision of electrical power for modernization of industry and services;
- provision of the revenue benefit as per prevailing market price.
- Share in Revenue Benefit as per prevailing Acts and Rules (The DOED deposits 90 percent of the royalty in the government's revenue account in Nepal Rastra Bank and the remaining 10% is made available to the respective districts.)
- uplift of rural economy

27

## 6.0 ENVIRONMENTAL MITIGATION MEASURES

### 6.1 Physical Environment

- Minimisation of Landake
- Slope protection measures (bioengineering techniques, constructing revetment walls gabion walls, check dams, benches or terraces, riprap and spurs)
- Watershed management of the catchment area to limit slope erosion and sedimentation in the reservoir and constructing check dams in tributaries, which may be transporting sediment into the reservoir.

28

## 6.2 Biological Environment

- Revegetation of disturbed slopes (compensatory plantation has been suggested in 1: 25 ratio
- Minimization of Site Clearing and Revegetation of Cleared Sites
- Protection of Forest Resources
- Community Forest Support Program
- Control of Hunting and Trapping
- Environmental Awareness for Conservation (EAC)
- Open water stocking of exotic and indigenous carps

29

## 6.3 Socio-economic and Cultural Environment

- Suitable Compensation program
- Employment opportunities for the local people
- Agricultural enhancement programs for the loss of agricultural products

30

## 7.0 PUBLIC INVOLVEMENT

Public hearing was held on January 25, 2004 at Vyas (Damauli) Municipality, Tanahun. More than 200 people participated in the hearing. Inquiries and responses of the local people mostly focused on:

- Process of land acquisition and compensation
- Fixation of price be liberal
- Downstream impacts
- Down stream release
- Infrastructure development (viz. road, electrification, drinking water irrigation, communication etc.)
- Employment opportunity for displace and other project affected family
- Rural electrification to the surrounding villages.

31

## 8.0 ENVIRONMENTAL MANAGEMENT PLAN

- Upper Seti Environment Unit will be formed which will consist of experts from Ministry, local administrators and other qualified personnel from the local market.
- A separate project compensation Unit will also be established under the Upper Seti Environmental Unit to oversee that compensation aspects are handled with the required care by the project company.
- Environmental Monitoring Activities will also be performed by this unit

32

Continued

- Enhancement Programs like watershed management programs, Fresh Vegetable Farming Training Program, Improved Agricultural Farming Training Programme, and Rural Electrification
- The total cost for implementing the Environmental Management Plan is estimated to be NRs 72,06,24,000 or US \$ 10 million. The total Environmental Management Cost amounts to approximately 5% of the total project cost

33

## 9.0 RECOMMENDATIONS

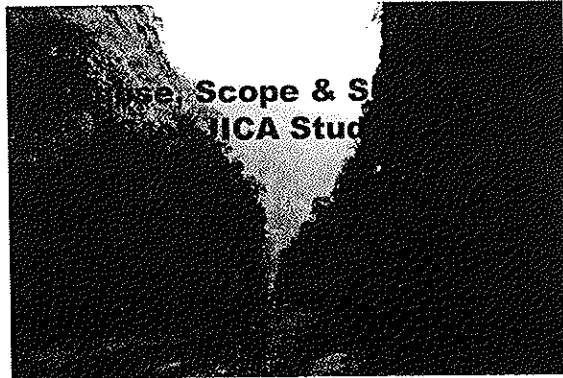
- A detailed Environmental Management Plan should be prepared during the Detailed Design stage
- Further social investigation especially confirmation of the houses to be relocated and the land to be acquired
- Further investigation is recommended to assess the impact due to impoundment especially in critical areas like Bhimad Bazaar, Jaruwapani and Risin Patan and the settlements around the reservoir, which are on the vertical cliff next to the Bank. These areas may be affected due to the slope failures in the long run and have to be confirmed whether they need relocation.

34

Continued

- Assessment of downstream impacts due to peaking releases.
- Water quality modeling (eutrophication model)
- Further Fish migration study and design of fish hatchery is recommended during the detailed design study.
- Detailed survey and documentation of the forest resources, community managed forest and mapping of the ecologically sensitive area

35



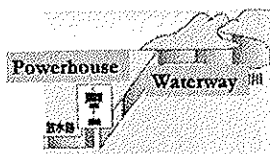
1

## Type of Hydropower Plant

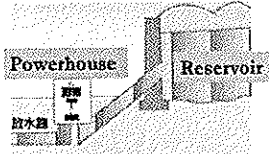
- Need Storage Hydropower Plant for Stable Power Supply in Dry Season
- In Dry Season, Run-off-River Type Hydropower Plants Decrease Generation Capacity

2

## Type of Hydropower Plant



Run-off-River Type



Storage Type

3

## NEA & JICA Study

NEA: Feasibility Study in July 2001  
Upgrading F/S in July 2004

Request  
Nepalese Gov. → Japanese Gov.  
Technical Assistance by JICA

Stakeholder Meeting: 3 times by NEA with assistance of JICA Team

## Purpose of Study

Regarding Upper Seti Hydroelectric Project

- Formulate the optimum plan
- Assess its environmental, technical, economical and financial viabilities

5

## Scope of Study

JICA Study consists the three stage

- Preliminary Study Stage
- Detailed Investigation Stage
- Upgrading Feasibility Design Stage

6

## Scope of Study

### Preliminary Study Stage

1. Review of existing data & information
2. Preparation of plan on detailed field survey by JICA Team to supplement NEA's investigations

7

## Scope of JICA Study

- Detailed Investigation Stage
  1. Field investigations by JICA Team (Mapping, Geology & Environment)
  2. Data analysis on investigation results
  3. Environmental impact assessment

8

## Scope of JICA Study

- Upgrading Feasibility Design Stage
  1. Optimization of development scheme and layout
  2. Upgrading feasibility design
  3. Project cost estimation
  4. Economic & financial analysis
  5. Conclusions & Recommendations  
Including justification of the Project & environmental mitigation measures.

9

## Schedule of Study

Study: started in February 2005  
completed in June 2007

Present progress:

Started field investigations by JICA Study Team  
(Detailed investigation Stage)

Project Stage:

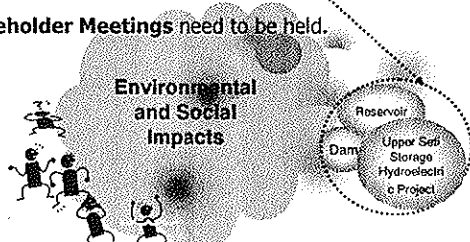
JICA Study ➡ Detailed Design ➡ Bidding ➡ Construction ➡ Operation

10

According to "JICA's Guidelines on Environmental and Social Consideration",

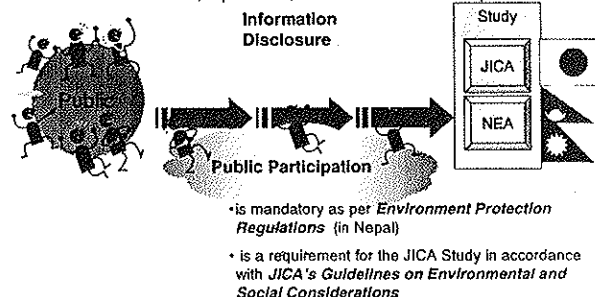
The Project is likely to have **significant impacts on the environment and society.**

- The **studies on environmental and Social impacts** need to be undertaken.
- The **Stakeholder Meetings** need to be held.



What are the objectives of the Stakeholder Meetings?

- to explain and disclose information regarding the Study and environmental and social aspects on the Project
- to obtain concerns, opinions, feedback from the public



Overview of Stakeholder Meetings in Damauli				
	Tentative Schedule	Venue	Prospective Participants (Number of Participants )	Tentative Main Agenda
①	June 2- Jesth 19	Damauli	Local People Local government Local Line agencies NGOs/CBOs } (200 )	<ul style="list-style-type: none"> <li>Background, objective, scope and schedule of the Study</li> <li>Project Layout</li> <li>JICA guidelines for environmental and social consideration</li> <li>SIA scope and issues</li> </ul>
②	November 2006	Damauli	Local People Local government Local Line agencies NGOs/CBOs } (200 )	<ul style="list-style-type: none"> <li>Necessity of the Project</li> <li>Examination of alternatives</li> <li>Layout and scale of the Project</li> <li>Natural and social environment assessment</li> <li>Environment management and resettlement plan</li> </ul>
③	February 2007	Damauli	Local People Local government Line agencies NGOs/CBOs } (200 )	<ul style="list-style-type: none"> <li>Preliminary design</li> <li>Implementation schedule</li> <li>Project cost and economic analysis</li> <li>Environmental management and monitoring plans</li> <li>Resettlement plans</li> <li>Compensation for the land acquisition</li> </ul>

## Lay-Out Study

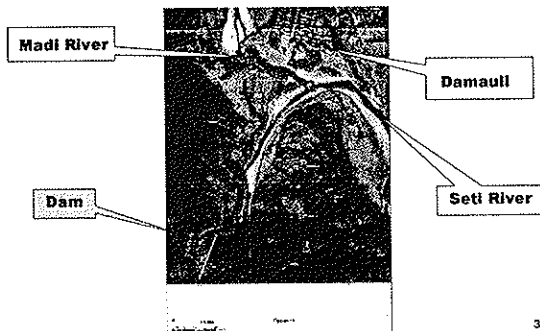
1

## Keys of Layout Options

- Option-I : P/S embedded in Dam
- Option-II : Dam and Waterway with Underground type P/H
- Option-III a : Same as Op-II. Tailrace location is more downstream.
- Option-III b : Another waterway route from Op-III a.
- Option-IV : P/H is located left embankment

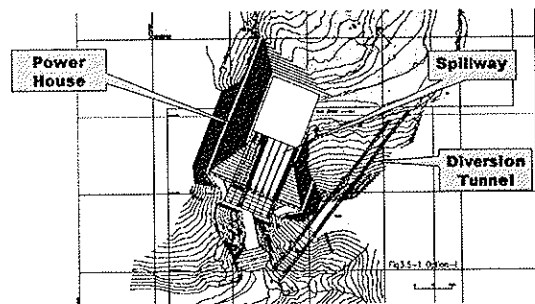
2

## Option-I Birds' eye-View



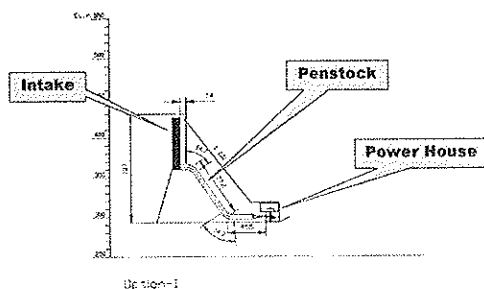
3

## Option-I General Plan



4

## Option-I Vertical Section



5

## Dam-site from Upstream

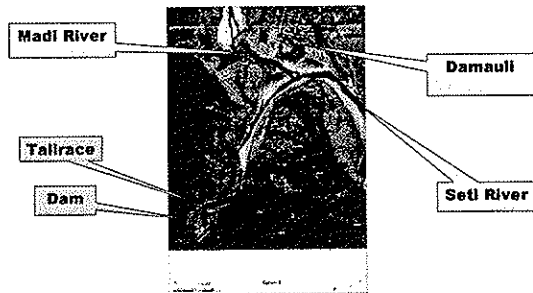


Same as Other Options

6

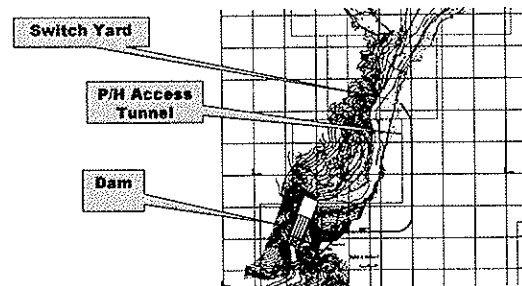


## Option-II Birds' eye-View



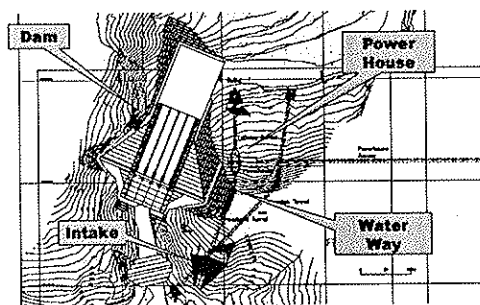
7

## Option-II General Plan



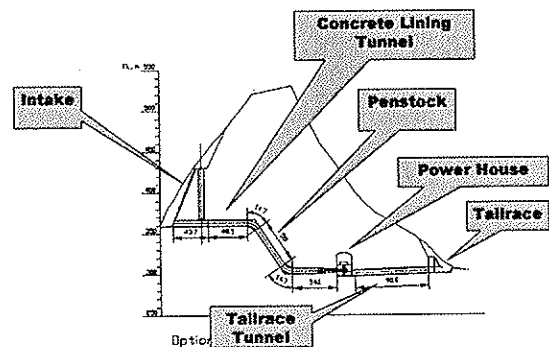
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## Option-II General Plan 2

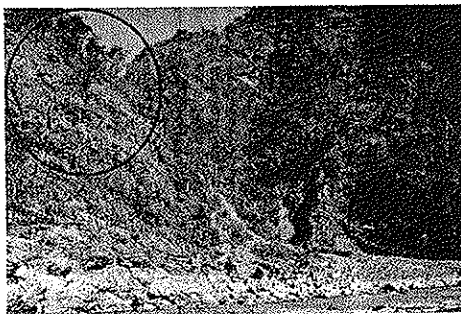


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## Option -II Vertical Section

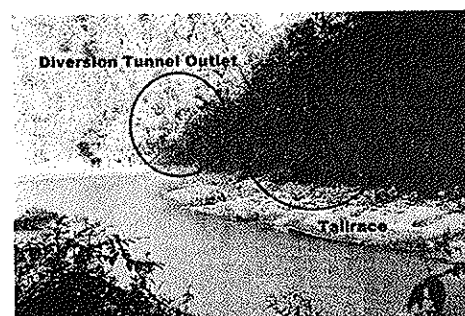


## Intake site (Intake of Option-II)



11

## Tailrace Site Area



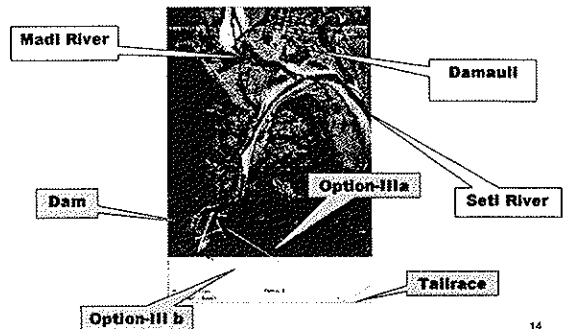
12

## Proposed site for Switchyard and Access tunnel entrance



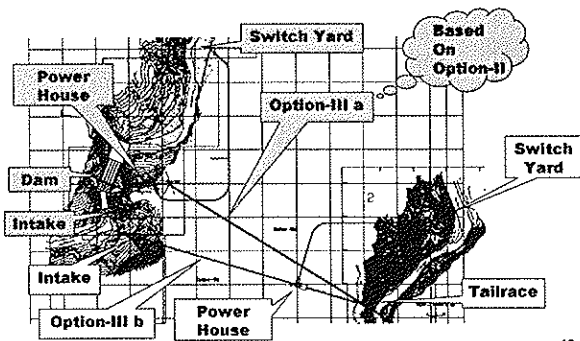
13

## Option-III Birds' eye-View



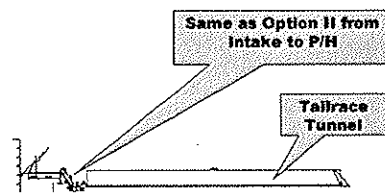
14

## Option-III General Plan



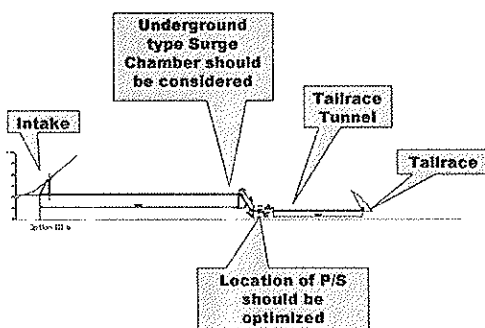
15

## Option-III a Vertical Section



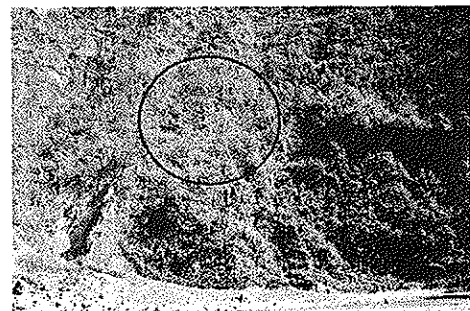
16

## Option-III b Vertical Section



17

## Intake site for Option-III b



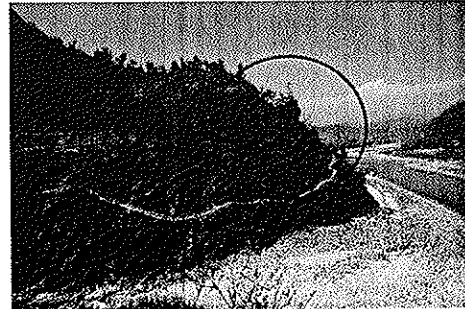
18

### Tailrace Site for Option III b



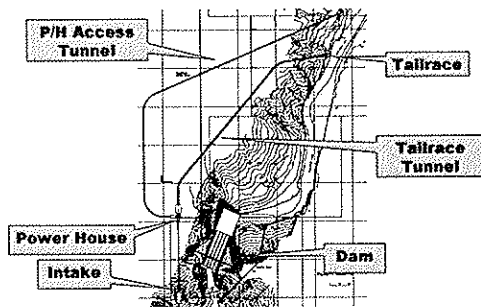
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### Switch Yard and Access Tunnel Entrance Site for Option III b



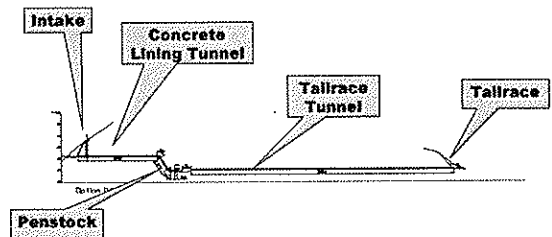
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### Option-IV General Plan



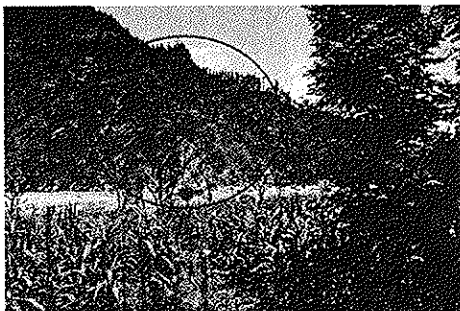
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### Option-IV Vertical Section



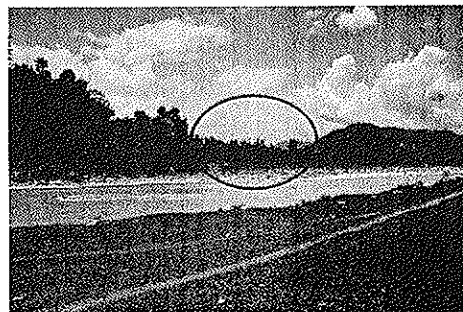
22

### Option-IV Tailrace Site



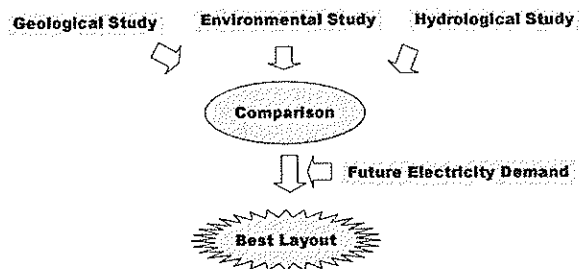
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### Option-IV Switch Yard Site



24

## How to decide Layout?

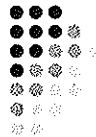


## Upper Seti (Damauli) Storage Hydroelectric Project

### EIA Scoping and Issues under the JICA Study

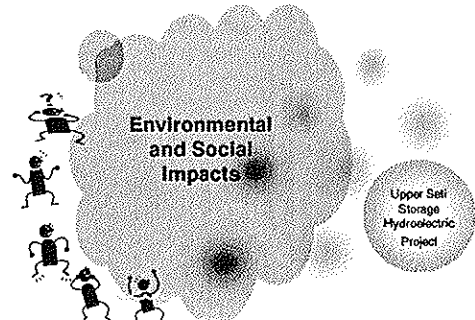
1<sup>st</sup> Stakeholder Meeting in Damauli for Upgrading Feasibility Study

on June 2 2006/Jesth 19 2063  
organized by NEA and JICA Study Team



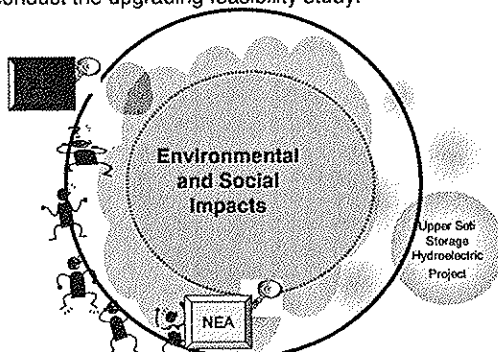
## Why the Study is needed before the Implementation of the Project?

The Project sometimes may trigger environmental and social impacts, and affect the people living there.

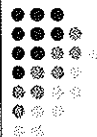
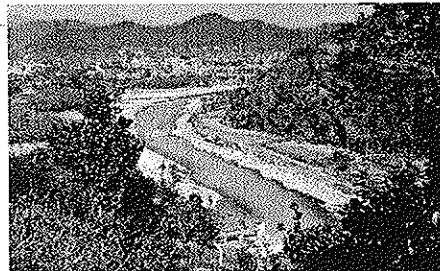


## What is the current status of the Study?

In response to the request of the Government of Nepal, Japan International Cooperation Agency (JICA) decided to conduct the upgrading feasibility study.



## Impacts on Natural Environment to be assessed under the JICA Study



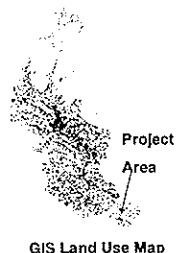
## New GIS Survey & Maps

### Watershed Area

- 1,502 km<sup>2</sup> at 1:25,000 Scale & 20m Contour
- Use for Watershed Management Plan

### Reservoir Area

- 120 km<sup>2</sup> at 1:5,000 Scale & 5m Contour
- Use for forestry, erosion, land losses & new resettlement sites



5

## Water & Fisheries

### (1) Impacts on Reservoir Water Quality

- Collect water samples at 4 sites
- Study effects on groundwater
- Reassess NEA – EIA results

### (2) Impacts on Aquatic Ecology & Fisheries

- Sampling downstream, reservoir area & upstream
- Collect data from KGA & BFRS
- Plans for reservoir & local fisheries

6

## Forestry & Wildlife

### (3) Impacts on Forestry

- Assess forests in areas such as access roads, quarries, camps & spoil disposal
- 155 ha estimated in EIA to be confirmed
- 6 Community Forests & Mitigation Plan

### (4) Impacts on Wildlife

- Update species lists for all wildlife
- Confirm conservation status & impacts
- Monitoring & controls on workforce

## Downstream Impacts

### Reservoir Operations

- Channel & alteration to river bed
- Changes in flow patterns & effects
- Sediment trapping in wet season
- Plan for river training & other mitigations

### White Water Rafting Operations

- Check operators & rafting / river bank erosion
- Discuss project effects with operators

## Impacts on Topography & Watershed Management Study

### (7) Impacts on Topography

- Study landslides & erosion around reservoir
- Spillways and cost estimates

### (8) Watershed Management Study

- Study catchment area to identify erosion and precipitation data to identify erosion
- Set priority mitigation actions & plans

## EMMP & Transmission Line

### (9) Environmental Management & Monitoring

- Update NEA-EIA mitigation, management & monitoring plans and budgets
- Set responsibilities for NEA, Contractors & others

### (10) Transmission Line -- Project to Bham

- Using maps estimate VDCs, villages, land for alternative routes
- Compare forest loss & erosion

## Compare Alternatives- JICA

### (11) Comparison of Environmental and Social Impacts of Project Alternatives

- Compare Without Project & Thermal Options
- Compare 5 Alternative layouts via Table as to effects on local natural & social environments
- Emphasize any reservoir erosion and operational period problems eg backwater effects
- Try to minimize & mitigate problems

## Social Impacts to be assessed under the JICA Study

#### Possibly Affected Household

NEA EIA based on field survey in 2001

- 45 houses in Bhimad, Chhan, Jamunem Majhkot, Ranipokahri will be relocated, and 917 ha of land will be acquired.

JICA Study in 2006 will investigate

- ✓ How many and which households will be affected?
- ✓ How much the land will be acquired?

JICA Study in 2006 will prepare

- ✓ The framework of Resettlement Action Plan including mitigation measures



#### Possible Loss of Arable Land

NEA EIA based on field survey in 2001

- 162 ha of arable land will be affected.
- The total lost crop production per annum will be 769 tones.

JICA Study in 2006 will investigate

- ✓ How much arable land will be affected?
- ✓ How much crop production will be lost?

JICA Study in 2006 will prepare

- ✓ The framework of Resettlement Action Plan including mitigation measures



#### Possible Loss of Livelihood of Fishermen

NEA EIA based on field survey in 2001

- The livelihood and income of farmers/fishermen families, namely Bhote and Kami living around the riverside villages will be affected.

JICA Study in 2006 will investigate

- ✓ How many fishermen families will be affected?
- ✓ How much the livelihood of fishermen families will be lost?

JICA Study in 2006 will prepare

- ✓ The framework of Social Action Plan including mitigation measures



#### Possibly Affected Religious, Historical and Archeological Sites

NEA EIA based on field survey in 2001

- One small temple on the right bank of Seti River near Bhimad bazaar and three cremation site will be inundated.

JICA Study in 2006 will investigate

- ✓ How much temples and cremation sites will be affected?

JICA Study in 2006 will prepare

- ✓ The framework of Social Action Plan including mitigation measures



#### Possibly Affected Infrastructure

NEA EIA based on field survey in 2001

- Four suspension bridges in Jamune and Chan VDC will be submerged.
- Access tracks to the main highway will be affected.

JICA Study in 2006 will investigate

- ✓ What types of infrastructure will be affected?
- ✓ How many infrastructure will be affected?

JICA Study in 2006 will prepare

- ✓ The framework of Social Action Plan including mitigation measures



#### Construction Impact and Vulnerable Groups

NEA EIA based on field survey in 2001

- HIV/AIDS and other infectious disease are possible impacts of the construction with the influx of workers
- New opportunities may be found in the influx of workers.

JICA Study in 2006 will investigate

- ✓ What will the influx of a large number of workers adversely bring about? (e.g. spread of infectious disease, trafficking, child labors, etc)
- ✓ What type of opportunities will be created?

JICA Study in 2006 will prepare

- ✓ The framework of Social Action Plan including mitigation measures

