

आम मिति २०६८-११/११ का दिन प्राचीन पुनर्निर्माण तथा पुनर्बोधना आयोजना (RRRSDP) अन्तर्गत यस सुरुवाती-आयोजना संरक्षक को समायोजन कार्यका क्रममा यस क्षेत्रको अर्थिक, शैक्षिक, स्वास्थ्यिक, सांस्कृतिक र आर्थिक नगराधारमा सार्ने उद्देश्यका साथ उक्तपत्रको प्रभावका विषयमा यस क्षेत्रको गा.वि.स. नं. ११ मा हलफना कार्यका संयोजन गरियो। अन्तर्गत RRRSDP का अर्थोपार्थी र उद्योगिक क्षेत्रका/वाला व्यक्तिहरुको साक्षिणी रहेको छ।

तयारी

क्र.सं	नाम/पर	हेतुका	पेशा	स्वरकार
१	लक्ष्मी थापा	वागरे-१, सुस्ता	ग्याज	सुस्ता
२	रुप थापा	"	कृषि	"
३	गुन्नाछो थापा	"	"	"
४	दाल व. थापा	"	"	"
५	दाम्नी थापा	वागरे-२	"	"
६	काकी थापा	वागरे-५	"	"
७	प्रादेश थापा	वागरे-१	विद्यार्थी	"
८	सन्तोका थापा	"	सन्तोका	"
९	सुदामी थापा	वागरे-८	"	"
१०	निर्मला गजरी	वागरे-३	"	"
११	विष्णु व. थापा	वागरे-५	"	"
१२	लाल व. थापा	वागरे-८	"	"
१३	रत्न थापा	वागरे-८	"	"
१४	पुर्ण व. थापा	वागरे-१	"	"
१५	उष्मा थापा	"	"	"
१६	सुदामी थापा	"	"	"
१७	सुदामी थापा	"	"	"
१८	सुदामी थापा	"	"	"
१९	सुदामी थापा	"	"	"

निम्न निम्न विषय, साक्षिणी

- १) यस सुरुवाती-आयोजना संरक्षक को समायोजन कार्यका क्रममा यस क्षेत्रको अर्थिक, शैक्षिक, स्वास्थ्यिक, सांस्कृतिक र आर्थिक नगराधारमा सार्ने उद्देश्यका साथ उक्तपत्रको प्रभावका विषयमा यस क्षेत्रको गा.वि.स. नं. ११ मा हलफना कार्यका संयोजन गरियो। अन्तर्गत RRRSDP का अर्थोपार्थी र उद्योगिक क्षेत्रका/वाला व्यक्तिहरुको साक्षिणी रहेको छ।
- २) यस सुरुवाती-आयोजना संरक्षक को समायोजन कार्यका क्रममा यस क्षेत्रको अर्थिक, शैक्षिक, स्वास्थ्यिक, सांस्कृतिक र आर्थिक नगराधारमा सार्ने उद्देश्यका साथ उक्तपत्रको प्रभावका विषयमा यस क्षेत्रको गा.वि.स. नं. ११ मा हलफना कार्यका संयोजन गरियो। अन्तर्गत RRRSDP का अर्थोपार्थी र उद्योगिक क्षेत्रका/वाला व्यक्तिहरुको साक्षिणी रहेको छ।
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आम मिति २०६८-११/११ गते का दिन मिला विकास समिति, मिला प्रविधिको उपरोक्त व. उपाययोजना अन्तर्गत तथा पुनर्बोधना आयोजना (RRRSDP) अन्तर्गत यस सुरुवाती-आयोजना संरक्षक को समायोजन कार्यका क्रममा यस क्षेत्रको अर्थिक, शैक्षिक, स्वास्थ्यिक, सांस्कृतिक र आर्थिक नगराधारमा सार्ने उद्देश्यका साथ उक्तपत्रको प्रभावका विषयमा यस क्षेत्रको गा.वि.स. नं. ११ मा हलफना कार्यका संयोजन गरियो। अन्तर्गत RRRSDP का अर्थोपार्थी र उद्योगिक क्षेत्रका/वाला व्यक्तिहरुको साक्षिणी रहेको छ।

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क्र.सं	नाम/पर	हेतुका	पेशा	स्वरकार
१	मालिका खड्का	लापिडाँडा-३	"	"
२	फगल व. थापा	"	काठमाडौं	"
३	सुदामी थापा	"	कृषि	"
४	दाल व. थापा	"	"	"
५	लक्ष्मी खड्का	"	"	"
६	सन्तोका खड्का	"	"	"
७	सुदामी थापा	"	"	"
८	सुदामी थापा	"	"	"
९	सुदामी थापा	"	"	"
१०	सुदामी थापा	"	"	"
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निम्न निम्न विषय, साक्षिणी

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Summary of Meeting Minutes

Date	Location of public meeting	Address	Issues and Suggestions of the meeting
2065/12/24 BS (05/04/09 AD)	Bhadaure	Sunkhani VDC, Dolakha	<ul style="list-style-type: none"> ▪ Devi temple which is 5m below from alignment might be affected during road construction activities at Ch 0+200 so proper care should be given to conserve it. ▪ Spring source at Ch 0+300 should be conserved and mitigation measure should be adopted to prevent from possible adverse impacts ▪ Drainage should be constructed at Ch 0+000.
2065/12/26 BS (07/04/09)	Lapilang settlement	Lapilang VDC, Dolakha	<ul style="list-style-type: none"> ▪ No adverse effects are seen due to the road construction activities. ▪ Training for income generating activities should be provided to local people. ▪ Vegetable farming should be encouraged to local people.
2065/12/26 BS (07/04/09AD)	Patagau settlement	Lapilang VDC, Dolakha	<ul style="list-style-type: none"> ▪ Siwalaya temple, Devi temple and resting place (<i>pati</i>) may be affected during road construction activities at Ch 3+200 so they could be preserved. ▪ Affected drinking water supply reservoir at Ch 3+200 should be restored. ▪ Appropriate mitigation measures should be given to minimize damage of public and private property from possible landslide
2066/11/10 B.S (23-03-2010 AD)	Kyurtisang settlement,	Babare Kalinchowk VDC	<ul style="list-style-type: none"> ▪ The Project has to be start very soon. ▪ Compensation should be paid as per project norms. ▪ Erosion prone area should be stabilize, ▪ Training related to skill development should be provided to local
	Thapagaun settlement	Lamidanda VDC	<ul style="list-style-type: none"> ▪ Have positive impact due to road construction ▪ Erosion prone area should be stabilize and impact on physical, biological and socio-economic should be minimize. ▪ The Project has to be start very soon. ▪ Compensation should be paid as per project norms
	Gumcha Settlement	Kalinchowk VDC	<ul style="list-style-type: none"> ▪ This road just touches this VDC so road should be constructed up to Kyanpol of this VDC. ▪ The Project has to be start very soon. ▪ Compensation should be paid as per project norms. ▪ Erosion prone area should be stabilize, ▪ Training related to skill development should be provided to local

Appendix 11 Socio-economic Data of Subproject Area

Appendix 11a Population, Household and Ethnicity within the Zol of road alignment

S.N.	Major Settlements	VDCs & ward no.	Total Households	Total Population	Caste
1	Si.Sa. Golae	Sunkhani	16	90	Chetri, Newar, Kami
2	Katike	Sunkhani-9	20	120	Chhetri, Bhramin
3	Sithka	Sunkhani	125	660	Bharmin, Chhetri, Dhami
4	Pata Gau	Lapilang-9	72	450	Chhetri, Sunupar, Bramin
5	Laptung	Lapilang-7,8	285	1700	Chhetri
6	Gujarpa	Lapilang-5,6	60	350	Chhetri, Bramin
7	Lapilang	Lapilang-4,5,3	234	1404	Chhetri, Newar
8	Lakiegau	Lapilang	260	1500	Chhetri, BK, Nepali
9	Gumu	Lamidada	200	1050	B.K, Nepali, Chhetri, Newar,
10	Pokhare	Lamidada-8	80	480	B.K, Nepali, Chhetri, Newar
11	Pandya Tol	Lamidada	130	780	Chhetri, Bramin
12	Bhirmuni	Lamidada	120	720	Tamang, Chhetri
13	Dharapani	Babare	200	1000	Tamang, Dhami, Chhetri, Bramin
14	Bhirmuni /Fusra	Babare-6,7	180	800	Chhetri, Bramin, Thami
15	Dada Gaun	Babare-4,5	300	1600	Chhetri, Newar, Kami, Sherpa, Thami
16	Damfa	Babare-3	150	850	Newar, Chhetri, B.k, Thami
17	Kutisyang & Tuwapa	Babare 1,2	252	2010	Panday, Thami, Thami
Total			2684	15564	

Source: Field survey, 2009

Appendix 11b Distribution of households by major occupation

Settlement Name	Number of HH in					
	Agriculture & Livestock	Labour & Porter	Business/ Commerce	Cottage Industry	Employees	Others (specify)
Si.Sa. Golae	25	10	6	1	3	-
Katike	20	20	-	-	1	-
Sithka	120	80	25	-	17	-
Pata Gau	72	70	3	3	1	-
Laptung	285	230	5	-	50	-
Gujarpa	60	39	6	-	15	-
Lapilang	234	225	13	-	10	-
Lakiegau	260	200	40	-	50	-
Gumu	200	170	10	2	50	-
Pokhare	80	60	10	-	10	-
Pandya Tol	130	115	5	-	16	-
Bhirmuni	120	110	5	-	8	-

Settlement Name	Number of HH in					
	Agriculture & Livestock	Labour & Porter	Business/ Commerce	Cottage Industry	Employees	Others (specify)
Dharapani	180	150	9	-	50	-
Bhirmuni /Fusra	160	160	7	2	20	-
Dada Gaun	270	280	8	17	20	-
Damfa	150	140	18	15	10	-
Kutisyang &Tuwapa	252	250	5	20	3	-
Total	2618	2215	175	60	234	
Percentage	97.54	82.52	6.52	2.23	8.71	

Source: Field survey, 2009

Appendix 11c Existing Farming System (Cereals)

Settlement Name	Rice	Wheat	Maize	Millet	Junelo	Phaper	Others
Si.Sa. Golae	4	3	2	1	-	-	-
Katike	-	3	1	2	-	4	-
Sithka	3	4	2	1	-	-	-
Pata Gau	4	3	1	2	-	-	-
Laptung	3	4	2	1	-	5	-
Gujarpa	3	4	2	1	-	5	-
Lapilang	3	4	2	1	-	5	-
Lakiegau	3	4	2	1	-	5	-
Gumu	1	4	3	2	-	5	-
Pokhare	-	3	2	1	-	4	-
Pandya Tol	3	4	2	1	-	5	-
Bhirmuni	-	3	2	1	-	4	-
Dharapani	2	4	3	1	-	5	-
Bhirmuni /Fusra	2	4	3	1	-	5	6
Dada Gaun	2	4	3	1	-	5	6
Damfa	3	4	2	1	-	-	5
Kutisyang &Tuwapa	3	4	2	1	-	6	5

Note: 1= most dominant cereals, 2= Second dominant cereals, 3= third dominant cereals and so on.

Source: Field survey, 2009

Appendix 11c Existing Farming System (Cash Crops)

Settlement Name	Oil Seed	Beans/ Dal	Tobacco	Potato	Vegetable	Fruits	Tea/ Coffee	Amliso	Seri culture	Others
Si.Sa. Golae	-	4	-	1	-	3	-	2	-	-
Katike	5	-	-	4	3	2	-	1	-	-
Sithka	-	4	-	1	5	2	-	3	-	-
Pata Gau	-	-	-	1	2	3	-	4	-	-
Laptung	-	-	-	1	3	-	-	2	-	-
Gujarpa	-	-	-	1	3	4	-	2	-	-

Settlement Name	Oil Seed	Beans/ Dal	Tobacco	Potato	Vegetable	Fruits	Tea/ Coffee	Amliso	Seri culture	Others
Lapilang	4	5	-	1	3	6	-	2	-	-
Lakiegau	5	6	-	1	2	3	-	4	-	-
Gumu	-	4	-	1	3	2	-	5	-	-
Pokhare	-	-	-	1	3	-	-	2	-	-
Pandya Tol	-	6	-	1	2	3	-	5	-	4
Bhirmuni	5	-	-	1	2	3	-	4	-	-
Dharapani	-	-	-	1	3	4	-	2	-	-
Bhirmuni /Fusra	5	6	-	1	4	3	-	2	-	7
Dada Gaun	7	5	-	1	2	3	-	4	-	6
Damfa	-	-	-	1	2	-	-	3	-	4
Kutisyang &Tuwapa	6	5	-	1	3	4	-	2	-	-

Note: 1=Most dominant cash crops, 2=Second dominant cash crops, 3=third dominant cash crops and so on
Source: Field survey, 2009

Appendix 11d Livestock and Fisheries

Settlement Name	Cattle	Horse, Mules	Yak	Goat	Sheep	Rabbit	Pig	Fisheries	Poultry	Bee- Keeping
Si.Sa. Golae	1	-	-	2	-	-	4	-	3	-
Katike	1	-	-	2	-	-	-	-	3	-
Sithka	2	-	-	1	5	-	-	-	3	4
Pata Gau	3	-	-	1	-	-	-	-	2	4
Laptung	1	-	-	2	5	-	-	-	3	4
Gujarpa	1	-	-	2	4	-	-	-	3	5
Lapilang	1	-	-	2	5	-	-	-	3	4
Lakiegau	1	-	-	2	5	-	-	-	3	4
Gumu	2	-	-	1	-	-	-	-	3	-
Pokhare	2	-	-	1	-	-	-	-	3	4
Pandya Tol	2	-	-	1	-	-	-	-	3	-
Bhirmuni	1	-	-	2	4	-	-	-	3	-
Dharapani	1	-	-	2	-	-	4	-	3	5
Bhirmuni /Fusra	1	-	-	2	-	-	-	-	3	-
Dada Gaun	2	-	-	1	-	-	-	-	3	-
Damfa	2	-	-	1	-	-	4	-	3	5
Kutisyang &Tuwapa	1	-	-	2	-	-	-	-	3	-

Note: 1=Most dominant livestock, 2=Second dominant livestock, 3=third dominant livestock and so on.
Source: Field survey, 2009

Appendix 11e
Summary of public services and infrastructures according to settlement

Settlement Name	Type of educational institution	School (no.)	Student no.	Hospital	Telephone/Fax	Tele phone (mobile/CDMA)	Post office	Micro-hydro	Mini-hydro	National Grid	Solar System
Si.Sa. Golae	Campus High School	-	-	-	2	7	-	-	-	1	-
	Primary School	1	145								
Katike	Campus High School	-	-	-	-	10	-	-	-	1	-
	Primary school	-	-								
Sithka	Campus High School	-	-	-	3	70	-	-	-	-	-
	Primary School	1	200								
Pata Gau	Campus High School	-	-	-	2	5	-	-	-	-	4
	Primary School	1	110								
Laptung	Campus High School	-	-	1	2	80	-	-	-	-	25
	Primary School	1	300								
Gujarpa	Campus High School	-	-	-	1	20	-	-	1	-	-
	Primary School	1	125								
Lapilang	Campus High School	-	-	1	4	50	1	1	-	-	4
	Primary School	3	500								
Lakiegau	Campus High School	-	-	-	3	35	-	-	-	-	15
	Primary School	2	350								
Gumu	Campus High School	1	500	-	4	50	-	-	-	-	75
	Primary School	-	-								
Pokhare	Campus High School	-	-	-	1	20	-	-	-	-	3
	Primary School	1	120								
Pandya Tol	Campus High School	-	-	-	1	40	-	1	-	-	8
	Primary School	1	600								
Bhirmuni	Campus High School	-	-	-	1	25	-	-	-	-	9
	Primary School	1	60								
Dharapani	Campus High School	-	-	-	2	35	-	-	-	-	20
	Primary School	2	300								
Bhirmuni /Fusra	Campus High School	1	600	-	3	30	1	-	85	-	8
	Primary School	-	-								
Dada Gaun	Campus High School	-	-	-	4	60	-	-	180	-	30
	Primary School	3	500								
Damfa	Campus High School	-	-	-	1	13	-	-	145	-	5
	Primary School	1	150								
Kutisyang &Tuwapa	Campus High School	1	552	1	1	15	-	95	-	-	2
	Primary School	-	-								

Source: Field survey, 2009

Appendix 11e
Summary of public services and infrastructures according to settlement

Settlement Name/	Restuarant/tea shops(no)	Grocery (no)	Other Shops	Gravity flow	Spring/ dugwells	Irrigation (ha)	Micro hydro(KW)	Water mill	Suspension bridge	Wooden bridge
Si.Sa. Golae	4	6	1	9	7	-	-	-	-	-
Katike	-	-	-	18	2	-	-	-	-	-
Sithka	5	6	3	117	8	20	-	2	-	-
Pata Gau	1	3	-	60	12	12	-	1	1	-
Laptung	-	5	-	200	85	10	5	2	1	1
Gujarpa	-	6	-	55	5	10	12.5	3	2	7
Lapilang	2	12	1	5	230	-	-	3	-	-
Lakiegau	-	40	3	-	90	200	-	-	-	-
Gumu	-	10	20	150	50	-	-	-	-	-
Pokhare	3	3	7	70	10	-	-	-	-	-
Pandya Tol	4	4	-	70	60	4	21	1	-	-
Bhirmuni	-	3	-	110	20	-	-	-	-	-
Dharapani	2	8	3	150	50	-	-	1	-	2
Bhirmuni /Fusra	7	8	1	150	30	-	10	1	-	2
Dada Gaun	15	20	-	250	50	-	2	2	1	3
Damfa	-	3	1	125	25	-	5	-	-	2
Kutisyang &Tuwapa	3	5	2	240	12	1	15	1	1	1

Source: Field survey, 2009

Appendix 11e
Summary of public services and infrastructures according to settlement

Settlement Name/	Weaving Industry	Rice /Flour mill	Coopera tive	Ghat	Hatia/ Bazar	Play ground	Communi ty Center	Communi ty Organiz ation
Si.Sa. Golae	-	-	-	-	1	-	3	1
Katike	2	-	1	-	-	-	-	-
Sithka	1	1	-	1	1	2	-	2
Pata Gau	-	-	-	-	-	1	-	1
Laptung	1	1	1	1	-	2	1	7
Gujarpa	-	2	1	3	-	2	-	6
Lapilang	-	1	1	-	-	4	1	4
Lakiegau	-	5	-	1	-	3	-	5
Gumu	20	3	1	-	-	4	1	10
Pokhare	7	-	1	-	-	3	2	4
Pandya Tol	-	-	1	1	-	2	-	6
Bhirmuni	-	1	-	-	-	1	-	4
Dharapani	25	2	1	1	-	2	-	6
Bhirmuni /Fusra	1	2	3	1	-	2	1	3
Dada Gaun	2	2	7	1	1	4	2	3
Damfa	2	2	1	1	-	1	-	3
Kutisyang &Tuwapa	1	1	1	5	-	2	-	2

Source: Field survey, 2009

Appendix 11f Land holding Pattern (Households)

Settlement Name	Landless	Less than 1 ropani	1 to 5 ropani	5 to 10 ropani	10 to 20 ropani	20 to 50 ropani	>50 ropani
Si.Sa. Golae	-	-	5	11	-	-	-
Katike	-	-	6	2	12	-	-
Sithka	2	6	55	45	15	2	-
Pata Gau	2	2	18	40	10	-	-
Laptung	1	-	37	180	60	5	2
Gujarpa	-	5	8	40	7	-	-
Lapilang	-	-	1	110	120	2	1
Lakiegau	-	10	70	150	25	5	-
Gumu	-	-	5	100	95	-	-
Pokhare	-	-	15	40	15	10	-
Pandya Tol	-	-	20	20	20	10	-
Bhirmuni	-	-	15	15	50	5	-
Dharapani	-	20	100	100	10	-	-
Bhirmuni /Fusra	1	-	30	30	50	20	-
Dada Gaun	-	-	40	40	100	57	3
Damfa	-	5	15	15	50	5	-
Kutisyang &Tuwapa	-	20	20	20	12	-	-
Total Percentage	0.26	3.043	20.09	42.30	28.60	5.416	0.26

Source: Field survey, 2009

Appendix 11g Food Sufficiency (Households)

Settlement Name	Surplus	Sufficient for whole year	Sufficient for 3-9 months	Sufficient for three months	Less than three months
Si.Sa. Golae	-	-	16	-	-
Katike	-	12	2	6	-
Sithka	17	40	60	5	3
Pata Gau	4	4	40	15	14
Laptung	-	5	170	60	50
Gujarpa	-	7	40	10	3
Lapilang	-	3	156	60	15
Lakiegau	-	30	200	25	5
Gumu	10	135	50	5	-
Pokhare	5	10	40	20	5
Pandya Tol	5	20	60	45	-
Bhirmuni	5	10	50	30	25
Dharapani	10	10	50	100	30
Bhirmuni /Fusra	20	40	105	5	10
Dada Gaun	30	60	140	30	50
Damfa	15	10	55	40	30
Kutisyang &Tuwapa	-	-	160	32	60
Total Percentage	4.54	14.42	51.67	18.10	11.27

Source: Field survey, 2009

Appendix 11h Migration Pattern (Households)

S.N.	Major Settlements	No. of Hhs	Destination	Purpose	Month
1	Si.Sa. Golae	10	Kathmandu, India	Employment	Shrawan
2	Katike	19	Kathmandu, India	Employment	Shrawan,Poush
3	Sithka	50	India, Kathmandu,	Employment	Shrawan, Magh
4	Pata Gau	50	Kathmandu, India	Labour	Shrawan
5	Laptung	250	Kathmandu, India	Labour	Shrawan
6	Gujarpa	50	Kathmandu, India	Employment	Shrawan
7	Lapilang	120	Darjeeling, Gantang, Kathmandu	Employment	Shrawan
8	Lakiegau	200	Kathmandu, India	Labour	Shrawan
9	Gumu	75	Kathmandu, India	Employment	Shrawan,Poush
10	Pokhare	60	Kathmandu, India	Labour	Shrawan
11	Pandya Tol	110	Kathmandu, India	Employment	Shrawan
12	Bhirmuni	110	Kathmandu, India	labour	Shrawan
13	Dharapani	150	Kathmandu, India	Employment	Shrawan
14	Bhirmuni /Fusra	35	Kathmandu, India	Employment	Shrawan
15	Dada Gaun	260	Kathmandu, India, Other countries	Employment	Shrawan
16	Damfa	110	Kathmandu, India	Employment	Shrawan
17	Kutisyang &Tuwapa	220	Kathmandu, India	Employment	Shrawan

Source: Field survey, 2009

A Sample of Recommendation letter from VDC

Government Of Nepal
Ministry Of Local Development
Office of Village Development Committee
....., Dolakha

Reference No:

Subject: Recommendation letter for the implementation of IEE report

To,
The Office of District Development Committee, Dolakha

We have received the IEE report prepared for the Sunkhani-Kyanpa road sub project. We reviewed the environmental impacts and mitigation measures as mentioned in the report and satisfied with the IEE report and recommend for the implementation of road sub-project.

Signature

.....
VDC Secretar

Appendix 13

Major stream and their characteristics along the road alignment.

SN	Name of the stream	Chainage	Span(m)	Characteristics*
1	Chure khola	2+700	6	E
2	Andheri khola	3+450	6	C
3	Sime khola	4+700	10	E
4	Ghatte khola	4+900	16	B
5	Lampa khola	5+530	12	C
6	Andheri khola	6+120	12	C
7	Gumu khola	6+240	25	B
8	Lapse khola (i)	6+930	20	D
9	Lapse khola (ii)	7+750	8	B
10	Deudhunga khola	8+730	10	E
11	Guye khola	8+820	8	E
12	kholsi	9+300	4	D
13	kholsi	10+500	4	D
14	Ghatte khola	10+800	14	B
15	kholsi	10+960	6	E
16	Thade kholsi	11+700	4	E
17	Bakhere khola	12+200	10	D
18	Khurle khola	15+100	8	C
19	Kholsi	16+980	8	E
21	Kholsi	18+600	8	E
22	Andheri khola	18+700	9	D
23	Dhara pani khola	19+000	8	E
24	Kholsi	19+330	7	E
25	Khola	19+450	10	C
26	Barbare khola	20+500	11	C
27	Kusati khola	21+430	11	D
28	Barbare khola	21+740	8	D
29	kholsi	21+700	4	E
30	Dampha khola	23+140	13	D
31	Thathi khola	25+560	5	D
32	Sindure khola	26+200	10	D
33	Sime khola	26+000	4	C

*A: Perennial, snow-fed B: Perennial, spring-fed C: Dry-up for short period
D: Dry-up in winter E: Dry-up most of the year and having high flash-floods

Source: Field survey, 2009

**Appendix 14
Detailed Of Land Use Pattern Along The Road Alignment**

Type of Land	Chainage	Length(m)	Existing Width(m)	Additional Width (m)	Existing area (ha)	Additional Area (ha)
Settlement	6+700-6+900	200	4	1	0.08	0.02
	9+900-10+000	100	3.5	1.5	0.035	0.015
	10+500-10+800	300	4	1	0.12	0.03
	14+320-14+480	160	4	1	0.064	0.016
	17+110-17+200	90	3.5	1.5	0.0315	0.0135
	23+00-23+360	360	3	2	0.108	0.072
	Subtotal					0.4385
Barren land	15+250-15+650	400	3	2	0.12	0.08
	19+720-20+000	280	3.5	1.5	0.098	0.042
	Subtotal					0.218
Forest	0+500-1+600	1100	4.5	0.5	0.495	0.055
	1+700-2+700	1000	3.5	1.5	0.35	0.15
	15+750-16+100	350	3.5	1.5	0.1225	0.0525
	Subtotal					0.9675
Agricultural	0+000-0+500	500	4	1	0.2	0.05
	1+600-1+700	100	5	0	0.05	0
	2+700-6+700	4000	4	1	1.6	0.4
	6+900-9+900	3000	4	1	1.2	0.3
	10+000-10+500	500	4	1	0.2	0.05
	10+800-14+320	3520	4.5	0.5	1.584	0.176
	14+480-15+250	770	3.5	1.5	0.2695	0.1155
	15+650-15+750	100	4	1	0.04	0.01
	16+100-16+920	820	4	1	0.328	0.082
	16+920-17+110	190	4	1	0.076	0.019
	17+200-19+720	2520	4	1	1.008	0.252
	20+000-23+000	3000	3.5	1.5	1.05	0.45
	23+360-27+390	4030	4	1	1.612	0.403
Subtotal					9.2175	2.3075

Source: Field survey, 2009.

Appendix 15

Recommended Structures Necessary for Slope Stabilization at Various Places

A. DRY STONE MASONRY WALL

S.N	Chainage(m)		Remarks
	From	to	
1	555	565	Left
2	705	715	Left
3	1195	1205	Left
4	1475	1485	Left
5	1635	1645	Left
6	1655	1665	Left
7	1695	1705	Left
8	1745	1755	Left
9	1755	1765	Left
10	1875	1885	Left
11	2075	2085	Left
12	2155	2165	Left
13	2335	2345	Left
14	2755	2765	Left
15	2905	2915	Left
16	3035	3045	Right
17	3385	3395	Right
18	3615	3625	Left
19	4455	4465	Left
20	4475	4485	Left
21	4495	4505	Left
22	4575	4585	Left
23	5455	5465	Left
24	5495	5505	Left
25	5515	5525	Left
26	5889.02	5899.02	Left
27	6215	6225	Left
28	6435	6445	Left
29	6449.12	6459.12	Left
30	6463.92	6473.92	Left
31	6515	6525	Right
32	6553.69	6563.69	Right
33	6635	6645	Right
34	7856	7866	Right
35	8555	8565	Left
36	8675	8685	Left
37	8975	8985	Left
38	9075	9085	Left
39	9375	9385	Left
80	23775	23785	Left
81	24123	24133	Left
82	24135	24145	Left
83	24255	24265	Left
84	24495	24505	Left
85	25275	25285	Left
86	25295	25305	Left
87	25335	25345	Left
88	25355	25365	Left
89	25695	25705	Left
90	25715	25725	Left
91	25815	25825	Left

S.N	Chainage(m)		Remarks
	From	to	
40	9655	9665	Left
41	12975	12985	Left
42	12985.56	12995.56	Left
43	13395	13405	Left
44	13415	13425	Left
45	15415	15425	Left
46	16195	16205	Left
47	16295	16305	Left
48	16315	16325	Left
49	16335	16345	Left
50	16635	16645	Left
51	16735	16745	Left
52	16795	16805	Left
53	17075	17085	Left
54	17495	17505	Left
55	17535	17545	Left
56	17675	17685	Left
57	17917.13	17927.13	Left
58	17946	17955	Left
59	17955	17965	Left
60	18775	18785	Left
61	18855	18865	Left
62	18995	19005	Left
63	19055	19065	Left
64	19435	19445	Left
65	19475	19485	Left
66	20075	20085	Left
67	20515	20525	Left
68	20535	20545	Left
69	20555	20565	Left
70	20755	20765	Left
71	20835	20845	Left
72	21075	21085	Left
73	21095	21105	Left
74	21165	21175	Left
75	21175	21185	Left
76	22406	22416	Left
77	23235	23245	Left
78	23475	23485	Left
79	23635	23645	Left
92	26175	26185	Left
93	26275	26285	Left
94	26415	26425	Left
95	26435	26445	Left
96	26715	26725	Left
97	26795	26805	Left
98	26815	26825	Left
99	26835	26845	Left
100	27315	27325	Left
101	27335	27345	Left
102	27355	27365	Left
103	27375	27385	Left

Source: Field Survey, 2009

B.Schedule Of Gabion Works

Chainage		Gabion Type	Remarks
From	To		
815	825	Light	Right
1095	1105	Heavy	Right
1465	1475	Heavy	Right
1520	1530	Heavy	Right
1525	1535	Heavy	Right
1805	1815	Light	Right
2035	2045	Light	Right
2195	2205	Light	Right
2205	2215	Heavy	Right
2215	2225	Light	Right
2225	2235	Light	Right
2475	2485	Heavy	Right
2675	2685	Light	Right
2955	2965	Heavy	Right
3233.45	3243.45	Light	Right
3243.5	3250.26	Light	Right
3295	3305	Light	Right
3708.5	3718.5	Heavy	Right
4035.39	4045.39	Heavy	Right
4130.21	4140.21	Heavy	Right
5161.88	5171.88	Heavy	Right
5655	5665	Heavy	Right
5799.23	5809.23	Heavy	Right
6484.22	6494.22	Heavy	Right
6745	6755	Heavy	Right
6849	6859	Heavy	Right
8235	8245	Light	Right
8255	8265	Light	Right
8384.13	8394.13	Heavy	Right
8690.8	8700.8	Heavy	Right
9135	9145	Light	Right
9155	9165	Light	Right
9175	9185	Light	Right
9446.2	9456.2	Heavy	Right
9515	9525	Light	Right
9892.99	9902.99	Heavy	Right
9979.91	9989.91	Heavy	Right
10130	10140	Heavy	Right
10275	10285	Light	Right
11175	11185	Light	Right
11315	11325	Light	Right
11512.5	11522.5	Heavy	Right
11768.91	11778.91	Heavy	Right
11775	11785	Heavy	Right
23885	23895	Light	Right
23895	23905	Light	Right
23935	23945	Light	Right
23955	23965	Light	Right
23995	24005	Light	Right
24020	24030	Light	Right
24035	24045	Light	Right
24856	24866	Light	Right
24875	24885	Light	Right
24895	24905	Light	Right
25021	25031	Heavy	Right
25173	25183	Heavy	Right

Chainage		Gabion Type	Remarks
From	To		
11986	11996	Heavy	Right
12135	12145	Heavy	Right
12277.1	12287.1	Heavy	Right
12880.5	12890.5	Light	Right
13529.75	13539.75	Heavy	Right
13535	13545	Heavy	Right
13955	13965	Heavy	Right
13960	13970	Heavy	Right
15175.42	15185.42	Heavy	Right
15965	15975	Light	Right
15975	15985	Light	Right
15995	16005	Light	Right
17175	17185	Light	Right
17195	17205	Light	Right
17215	17225	Light	Right
17395	17405	Light	Right
17770	17780	Light	Right
18072	18082	Heavy	Right
18268	18278	Heavy	Right
18418	18428	Heavy	Right
18631	18641	Heavy	Right
18655	18665	Light	Right
19247	19257	Heavy	Right
19388.93	19398.93	Heavy	Right
19395	19405	Heavy	Right
19635	19645	Light	Right
19935	19945	Light	Right
20005.5	20015.5	Heavy	Right
20137	20147	Heavy	Right
20155	20165	Light	Right
20275	20285	Light	Right
20295	20305	Light	Right
20315	20325	Light	Right
20335	20345	Light	Right
20355	20365	Light	Right
20445	20455	Heavy	Right
20728	20738	Heavy	Right
21215	21225	Light	Right
22495	22505	Light	Right
22718	22728	Heavy	Right
23376	23386	Heavy	Right
23723.28	23733.28	Heavy	Right
23855	23865	Light	Right
23875	23885	Light	Right
25435	25445	Light	Right
25655	25665	Light	Right
25915	25925	Light	Right
25925	25935	Heavy	Right
26135	26145	Light	Right
26235	26245	Light	Right
26255	26265	Light	Right
26855	26865	Light	Right
26875	26885	Light	Right
26895	26905	Light	Right
26915	26925	Light	Right
27035	27045	Light	Right

Source: Field Survey, 2009

Appendix 16

Recommended Structure to Mitigate Water Induced Hazards.

A. Schedule of Causeway

(Span -12 m, Causeway Thickness -0.25m)

Chainage	Chainage	Chainage	Chainage	Chainage	Chainage	Chainage
1+470	4+135	9+451	11+991	17+775	19+394	23+381
1+525	5+165	9+898	12+140	18+077	20+010	23+728
2+480	6+750	9+985	12+282	18+273	20+142	25+026
2+960	6+854	10+135	13+534	18+423	20+450	25+178
3+713	8+390	11+512	13+965	18+636	20+733	25+930
4+040	8+695	11+774	15+180	19+252	22+723	

Source: Field survey, 2009

B. Schedule of Pipe Culvert

(Length -2.1 m, diameter -0.6m)

chainage	chainage	chainage	chainage	chainage	chainage
0+675	5+495	13+150	15+120	17+534	22+980
1+100	5+660	13+418	15+255	17+920	25+540
1+375	5+804	13+698	16+368	21+133	25+810
2+210	8+275	14+580	16+633	21+361	26+005
2+675	12+676	14+884	17+355	22+460	

Source: Field survey, 2009

C. Schedule of Slab Culvert

(Span -6m, Slab Thickness -0.3m, depth-3.4m)

Chainage	Chainage	Chainage	Chainage	Chainage	Chainage	Chainage
6+400	11+675	12+990	19+747	22+045	24+640	27+220
7+320	9+357	16+000	20+870	22+305	24+720	27+300

Source: Field survey, 2009

Appendix 17

List of trees to be removed

A. List of trees to be removed from Community Forest.

Chainage	Name of Community Forest	Species	Girth of tree (inch.)					Total
			<20	20-30	30-40	40-50	>50	
0+500-1+600	Janaakata CF	Chilaune (<i>Schima wallichii</i>)		3				307
		Sallo (<i>Pinus roxburghii</i>)	121	108	45	8	21	
		Uttis (<i>Alnus nepalensis</i>)	1					
1+700-2+700	Ramche CF	Angeri (<i>Lyonia ovalifolia</i>)		1				99
		Chilaune (<i>Schima wallichii</i>)	3	5	6			
		Gurans (<i>Rhodendron arboreum</i>)		2				
		Kafal (<i>Myrica esculenta</i>)		2				
		Maledo (<i>Macaranga indica</i>)	11	12				
		Okhar (<i>Juglans regia</i>)		2				
		Pahela (<i>Listea salicifolia</i>)		2				
		Sallo (<i>Pinus roxburghii</i>)	4	16	19	9	2	
Uttis (<i>Alnus nepalensis</i>)		2			1			
15+750-16+100	Thalaripakha CF	Chilaune (<i>Schima wallichii</i>)	4	11				60
		Kafal (<i>Myrica esculenta</i>)		1				
		Khirro (<i>Sapium insigne</i>)	1					
		Sallo (<i>Pinus roxburghii</i>)		36				
		Uttis (<i>Alnus nepalensis</i>)	4	3				
Total			149	206	70	17	24	466

Source: Field survey, 2009

B. List of trees to be removed from private land

Chainage	Species	Girth of tree (Inch.)					Total
		<20	20-30	30-40	40-50	>50	
Excluding CF	Aaru (<i>Prnus persica</i>)	6					6
	Angeri (<i>Lyonia ovalifolia</i>)	4	1		6		11
	Banjh (<i>Quercus lanata</i>)		1	6	1		8
	Bamboo	36 clump (Avg. 10 no .)					
	Kagbalayoh (<i>Rhus wallichii</i>)	2				1	3
	Chilaune (<i>Schima wallichii</i>)	159	181	33	7	16	396
	Dudhilo (<i>Ficus nerifolia</i>)	27	9			1	37
	Dursul (<i>Ribes sps.</i>)	7					7
	Flat (<i>Quercus lamellose</i>),		3				3
	Jigano (<i>Eurya acuminata</i>)	11	6				17
	Gogan (<i>Sauravia nepauensis</i>)		1				1
	Gurans (<i>Rhodendron arboreum</i>)	11	2	1		3	17
	Hadebir	5	1			1	7

Chainage	Species	Girth of tree (Inch.)					Total
		<20	20-30	30-40	40-50	>50	
	Kafal (<i>Myrica esculenta</i>)	4		1			5
	Katus (<i>Castanopsis indica</i>)	17	12	2			31
	Kaulo (<i>Persea odoratissima</i>)	8	4	2	1	1	16
	Khaniyu (<i>Ficus semicordata</i>)	6	13	2	3	4	28
	Khirro (<i>Sapium insigne</i>)	7	3				10
	Koiralo (<i>Bahunia variegata</i>)	2					2
	Kutmero (<i>Litsea monopetala</i>)	43	18	6	1		68
	Lakuri (<i>Fraxinus floribunda</i>)	5	13			3	21
	Lampate (<i>Duabanga grandifolia</i>)	1					1
	Lapsi (<i>Choerospondias axillaris</i>)			1			1
	Mauwa (<i>Bassia latifolia</i>)	15	5	3	1	1	25
	Maledo (<i>Macaranga indica</i>)	20	16				36
	Naspati (<i>Pyrus communis</i>)	2					2
	Newaro (<i>Ficus auriculata</i>)	8	17	2	1	1	29
	Okhar (<i>Juglans regia</i>)		2	3		1	6
	Pahela (<i>Listea salicifolia</i>)		9	2		1	12
	Paiyun (<i>Prunus cerasoides</i>)	40	46	12	3	10	111
	Pati	18	1				19
	Phosro	2	1				3
	Ragachan		3		1		4
	Sallo (<i>Pinus roxburghii</i>)	9	11	2		3	25
	Suntala (<i>Citrus sps.</i>)	6					6
	Uttis (<i>Alnus nepalensis</i>)	195	179	26	8	8	416
	Total	640	558	104	33	55	1,390
Cost (Nrs.) for compensatory plantation (1:3 ratio) of 1,390 trees in private land i.e.plantation cost for 4170 plants in private area @16.62 Nrs/plant							69305.4

Source: Field survey, 2009

Appendix 18 Affected House and Structure along Road Alignment with Photographs.

Appendix 18a Affected House and Structure with Socioeconomic Profile of Affected Houses along Road Alignment.

Data on affected HH/Structure including their Socio-economic Profile

S.N	Chainage	Name of structure owner/HH head	Occupation	Family Member		HH food sufficiency (in Month)	Income in NRS/Month		Total HH landholding Sp. m	Total affected land area Sq. M	Present use of Structure	structure type	storey	affected Structure Fully or partially
				Male	Female		Agriculture	Non agriculture						
1	2+840	Kamal Bahadur Thakuli	Business	4	4	8	10000	93000	5865	60	Residential and Shed	Mud and Stone walled with CGI Sheet roofing	3	Full
2	4+200	Ganga Miyu Thapa (Pam Bahadur Thapa)	Agriculture	3	4	8	2000	50000	3976	30	Residential	Mud and Stone walled with Khar roofing	2	Full
3	6+032	Dhan Bahadur Thami	Agriculture cum wage labour	4	3	6	0	52000	11800	32	Residential and Shed	Mud and Stone walled with CGI Sheet roofing	2	Full
4	7+100	Krishna Bahadur Thami	Agriculture	1	2	12	6000	25400	11165	76	Residential	Mud and Stone walled with CGI Sheet roofing	1	Full
5	10+920	Hem Bdr Thami	Teacher	2	1	3	0	4000	3605	2.47sq.m	house and toilet	Mud and stone wall with CGI sheet roofing	storey	Full
6	12+900	-	-								Pratikshala			Full
7	13+570	Krishna Bdr Basnet	Business man	2	3	9	2000	4000	3452.5	7.65	Mill	Shed type	storey	full
8	14+035	Bharat Baniya	Agriculture and wage labour	2	4	6	1000	5000	4089.84	10.6	Shop	hut with (GI sheet) roofed	storey	Full
9	17+0640	Debal Bdr Khatri	Agriculture and wage labour	4	3	6	2000	5000	3925	32.06	House	slate roofed	storey	full
10	22+405	-								6.25	Temple (Shiva ji)	Hut wit slate roofed	1	Full
11	22+360	Samsher Bdr Basnet	Astrologist (village level)	3	3	9	3000	5000	---	56.43	Shed	plastic roofed shed	1	full
12	25+835	Tul Man Thami	Agriculture and wage labour	5	5	4	2000	6000	22645	25.5	house	GI sheet roofed and slate roofed	3	full

Appendix 18b Photographs of Affected House and Structure along Road Alignment



Dabal Bdr Khatri, Resident House, Ch 17+064



Dhan Bdr.Thami, Resident House and Goat Shed, Ch6+032



**Partikshyala/Chautari (Resting Place),
Ch 12+900**



**Ganaga Maya Thapa, Residential House,
Ch 4+200**



**Hom Bdr Thami, Residential House and Toilet
Ch 10+920**



**Kamal Bdr. Thakur, Residential House and
Goat Shed Ch 2+640**

Appendix 18b Photographs of Affected House and Structure along Road Alignment



**Krishna Bdr Thami, Residential House,
Ch 7+100**



Krishna Bdr. Basnet, Mill ,Ch 13+670



**Samsheer Bdr. Basnet, Residential Shed,
Ch 22+390**



Shivayal Temple, Ch 22+405



Bharat Baniya, Shop, Ch 14+035



Tul Maan Thami, Residential House, Ch 25+835

Appendix 19 Name of the proponent and preparer

Name of the Proponent

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District Technical Office (DTO)
Charikot, Dolakha
Telephone No: 049-421144/049-421049
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Consultant:

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Name of the preparer

Prakash Basnet

Environmental Specialist

Supported by

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Vijaya Bijukchhe
Reemaya Nepali
Engila Mishra Maharjan
Dor Bahadur Shrestha
Deepak Charmakar
Ratna B.K

DIST Team Leader
Engineer
Social Development Specialist
Environmental Assistant
Sub- Engineer
Social Mobilizer
Social Mobilizer