

## Annex II: Rapid Environmental Assessment (REA) Checklist

### Rapid Environmental Assessment (REA) Checklist

**Instructions:**

- This checklist is to be prepared to support the environmental classification of a project. It is to be attached to the environmental categorization form that is to be prepared and submitted to the Chief Compliance Officer of the Regional and Sustainable Development Department.
- This checklist is to be completed with the assistance of an Environment Specialist in a Regional Department.
- This checklist focuses on environmental issues and concerns. To ensure that social dimensions are adequately considered, refer also to ADB checklists and handbooks on (i) involuntary resettlement, (ii) indigenous peoples planning, (iii) poverty reduction, (iv) participation, and (v) gender and development.
- Answer the questions assuming the “without mitigation” case. The purpose is to identify potential impacts. Use the “remarks” section to discuss any anticipated mitigation measures.

**Country/Project Title:**

Nepal / RRRSDP

**Name of the sub Project:**

Dovilla-Phalebas Road Subproject

SCREENING QUESTIONS	Yes	No	REMARKS
<b>A. Project Sitting</b>			
Is the Project area adjacent to or within any of the following environmentally sensitive areas?			
▪ Cultural heritage site		✓	
▪ Protected Area		✓	
▪ Wetland		✓	
▪ Mangrove		✓	
▪ Estuarine		✓	
▪ Buffer zone of protected area		✓	
▪ Special area for protecting biodiversity		✓	
<b>B. Potential Environmental Impacts</b>			
Will the Project cause...			
▪ Encroachment on historical/cultural areas; disfiguration of landscape by road embankments, cuts, fills, and quarries?		✓	
▪ Encroachment on precious ecology (e.g. sensitive or protected areas)?		✓	

SCREENING QUESTIONS	Yes	No	REMARKS
<ul style="list-style-type: none"> <li>Alteration of surface water hydrology of waterways crossed by roads, resulting in increased sediment in streams affected by increased soil erosion at construction site?</li> </ul>		✓	
<ul style="list-style-type: none"> <li>Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?</li> </ul>		✓	
<ul style="list-style-type: none"> <li>Increased local air pollution due to rock crushing, cutting and filling works, and chemicals from asphalt processing?</li> </ul>	✓		During road construction there will be increase in human and different construction activities that may cause the air pollution.
<ul style="list-style-type: none"> <li>Noise and vibration due to blasting and other civil works?</li> <li>dislocation or involuntary resettlement of people</li> </ul>		✓	
<ul style="list-style-type: none"> <li>Other social concerns relating to inconveniences in living conditions in the project areas that may trigger cases of upper respiratory problems and stress?</li> </ul>		✓	
<ul style="list-style-type: none"> <li>Hazardous driving conditions where construction interferes with pre-existing roads?</li> </ul>		✓	
<ul style="list-style-type: none"> <li>Poor sanitation and solid waste disposal in construction camps and work sites, and possible transmission of communicable diseases from workers to local populations?</li> </ul>		✓	
<ul style="list-style-type: none"> <li>Creation of temporary breeding habitats for mosquito vectors of disease?</li> </ul>		✓	
<ul style="list-style-type: none"> <li>Dislocation and compulsory resettlement of people living in right-of-way?</li> </ul>		✓	
<ul style="list-style-type: none"> <li>Accident risks associated with increased vehicular traffic, leading to accidental spills of toxic materials and loss of life?</li> </ul>		✓	
<ul style="list-style-type: none"> <li>Increased noise and air pollution resulting from traffic volume?</li> </ul>		✓	
<ul style="list-style-type: none"> <li>Increased risk of water pollution from oil, grease and fuel spills, and other materials from vehicles using the road?</li> </ul>		✓	

Source: field survey, July, 2009

## Annex III: Abstract of Cost

Government of Nepal  
Ministry of Local Development  
Office of District Development Committee  
Parbat

Road: Dobilla-Phalebass Road

Chainage: 0+000 to 15+500

### Labour Based Approach Summary of Cost (Item-wise)

SN	Description of works	Unit	Estimated	Rate(NRs)	Amount
			Quantity	In Figure	(NRs)
<b>A.</b>	<b>Roadway Works</b>				
1	Site clearance work	sq.m	77,500.00	11.60	899,000.00
2	Excavation in roadway, drain and foundation for gabion, dry and cement masonry retaining wall structures including removal and satisfactory disposal				
2.1	a) ordinary soil	Cum.	11,902.48	145.00	1,725,859.37
2.2	b) hard soil	Cum.	16,244.67	174.00	2,826,572.78
2.3	c) Ordinary Rock	Cum.	6,773.24	580.00	3,928,477.46
2.4	d) Medium rock	Cum.	209.90	1,160.00	243,481.50
2.5	e) hard Rock	Cum.	1,123.24	4,930.00	5,537,577.10
3	Construction of roadway in embankment and miscellaneous backfilling areas with approved material obtained from roadway excavation including average transportation distance up to 50 m along the lead route, spreading in layers, watering and compaction				
3.1	a) ordinary soil	Cum.	9,042.68	72.50	655,594.16
<b>B.</b>	<b>Structure Works</b>				
1	Stone Masonry work in (1:4) in Drain work along the road	Cum.	1,102.40	4,453.42	4,909,435.52
2	PCC in (1:3:6)	Cum.	11.47	6,082.40	69,740.80
3	Laying, Fitting, and Fixing of Hume Pipe with Transportation at Site, with all complete Work				
3.1	60cm Dia	Rm.	42.00	1,883.71	79,115.82
4	Assembling of gabion baskets and placing them in position including stretching, binding them together and tying down lids				
4.1	Box size 2*1*1	Nos.	290.00	26.10	7,569.00
4.2	Box size 1.5*1*1	Nos.	440.00	18.98	8,352.00
5	Stone Packing in Gabion Crates Including quarrying and transportation from:				
5.1	Box size 2*1*1	Nos.	290.00	2,878.00	834,620.00
5.2	Box size 1.5*1*1	Nos.	440.00	2,158.50	949,740.00
6	Fabrication of gabion boxes including rolling, cutting, weaving and supply to the site (Hexagonal Mesh Size: 100mm*120mm, selvedge wire-7swg, mesh wire-10 swg & binding wire-12 swg, all heavy coated)				
6.1	Box size 2*1*1	Nos.	290.00	2,696.61	782,016.90
6.2	Box size 1.5*1*1	Nos.	440.00	1,961.17	862,915.20
7	20 cm thick stone pitching on the prepared bedding including supply of stone and river spalls for sealing of voids	sq.m	13,730.94	292.50	4,016,301.12

8	5cm thick beddig for stone pitching with screened Granular material	sq.m	11,025.00	69.50	766,237.50
9	RCC Bridge construction work with accurate norms and specification as per code	Rm.	25.00	700,000.00	17,500,000.00
	Geo-textile work	sq.m	736.00	60.00	44,160.00
<b>C</b>	<b>Pavement work</b>				
1	Subgrade preparation work	sq.m	77,500.00	29.00	2,247,500.00
2	15 cm thick gravelling work (63mm down)	sq.m			
2.1	15 cm thick gravelling work (63mm down) Lead upto avg 5km	sq.m	38,875.00	329.69	12,816,621.00
2.2	15 cm thick gravelling work (63mm down) Lead upto avg 7.5km	sq.m	27,500.00	345.70	9,506,866.88
	<b>(A) Total Cost</b>	<b>NRs</b>			<b>71,217,754.11</b>
	<b>15% OVERHEAD</b>	<b>NRs</b>			<b>10,682,663.12</b>
	<b>(B) Total</b>	<b>NRs</b>			<b>81,900,417.23</b>
	<b>13% VAT</b>	<b>NRs</b>			<b>10,647,054.24</b>
	<b>(C) Total</b>	<b>NRs</b>			<b>92,547,471.46</b>
	<b>For all item Cost Per KM</b>	<b>NRs</b>			<b>5,970,804.61</b>
	<b>Cost without gravelling and Bridge</b>	<b>NRs</b>			<b>52,723,983.59</b>
	<b>(without gravelling and Bridge) Cost per KM</b>	<b>NRs</b>			<b>3,401,547.33</b>







3.8	Fisheries																	
3.9	Poultry																	
3.10	Bee-keeping																	
3.11	Others																	

**7. Migration for employment**

(a) No. of HHs from where at least one person (may be HH head) is away from home for more than 6 months. Also mention the place.

Settlement (No. of HH)																	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R

Name of settlement:

(b) Seasonal migration in search of work.

Month	No. of Total HH	Destination	Purpose
Baisakh			
Jestha			
Ashad			
Shrawan			
Bhadra			
Ashwin			
Kartik			
Marga			
Poush			
Magh			
Falgun			
Chaitra			

**8. Dominant off-farm occupation in the settlement in descending order**

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**B. DEVELOPMENT POTENTIAL ACCORDING TO SETTLEMENT**

B.1. Areas which have significant potential for development, for instance, high agricultural production, tourism development, local mines, etc. (indicate these areas in map/sketch).

S. N	Name of Area	Description of Development Potential
1		
2		
3		
4		

B.2. Scope of the proposed linkage in view of promoting socio-economic development (communication, agricultural production, education and health).

S.No	Sectors to get direct benefit	Describe how it will benefit
1		
2		
3		

**C. HISTORIC AND CULTURAL RESOURCES WITHIN THE SETTLEMENT**

Type of Resource	Name/specification	Affecting activities	Location from project

## Annex V: Public Notice



नेपाल सरकार  
स्थानीय विकास मन्त्रालय  
जिल्ला विकास समितिको कार्यालय  
जिल्ला प्राविधिक कार्यालय  
ग्रामिण पुननिर्माण तथा पुनस्थापना आयोजना  
जिल्ला आयोजना कार्यालय, पर्वत, कुश्मा

### प्रारम्भिक वातावरणीय परीक्षण (IEE) सम्बन्धी राय सुझावका लागि सार्वजनिक सूचना

सूचना प्रकाशित मिति : २०६६/४/१०

ग्रामिण पुननिर्माण तथा पुनस्थापना आयोजना (RRRSDP) अन्तर्गत एशियाली विकास बैंक (ADB), अन्तर्राष्ट्रिय विकास विभाग (DFID), स्वीस सरकार विकास नियोगको (SDC) अनुदान सहयोग तथा ओफिडको (OFID) ऋण सहयोग तथा नेपाल सरकार, जिल्लाविकास समिति र लाभग्राही समेतको लगानीमा स्तरोन्नती गर्नको लागि प्रस्ताव गरिएको निम्न दोबिल्ला-फलेवास, कुश्मा-दुर्लङ्ग-सालिजा, चिसापानी-हुवास-बराचौर र कार्कीनेटा-लुखु सडक उप आयोजनाको प्रारम्भिक वातावरणीय परीक्षण (IEE) प्रतिवेदन कार्यन्वयन गर्ने सिलसिलामा वातावरणीय संरक्षण नियमावली २०५४ (पहिलो संसोधन २०५५ समेत) को नियम ७२(२) अनुसार यो सार्वजनिक सूचना प्रकाशित गरिएको छ।

प्रस्तावकको नाम : जिल्ला विकास समितिको कार्यालय/जिल्ला प्राविधिक कार्यालय/जिल्ला आयोजना कार्यालय,पर्वत।  
प्रस्तावित सडक उपआयोजनाहरूको विवरण:-

क्र.सं.	सडकको नाम	प्रभाव पार्ने गा.वि.स.हरू	प्रस्तावकको विवरण	लम्बाई
१	दोबिल्ला- फलेवास सडक उप आयोजना	चुवा, पकुवा, पिपलटारी, कटुवाचौपारी, मडिकुवा र देविस्थान	यो उपआयोजना चुवा गा.वि.स अन्तर्गत पोखरा बागलुङ्ग राजमार्गको सुन्दरे खोला बाट शुरु भई देविस्थान गा.वि.स को फलेवास क्याम्पस चौकमा गई टुङ्गिन्छ। यो सडकमा दोबिल्ला, सिल्मी, माभगाउं, लामाचौर, बडहरे, देउतिवजार, साईकलचौक, सिरुवा, एकधर, सातवीस,डांडा, सेराचौर, राहाले, चन्दनटार फलेवास आदि वस्ति हरु पर्दछन्।	१५ की.मी.
२	कुश्मा-दुर्लङ्ग -सालिजा सडक उप आयोजना	शिवालय, दुर्लङ्ग र क्याङ्ग	यो उपआयोजना शिवालय गा.वि.स को दुर्लङ्ग चौक (पोखरा-बागलुङ्ग राजमार्ग) बाट शुरु भई क्याङ्ग गा.वि.स को लेस्पा र चौतारामा गई टुङ्गिन्छ। यो सडकमा दुर्लङ्ग चौक, कामि डाडा, परिटोल, गोदाम् रोहोटे, भाटचौर, खोरटोल, देउराली, गौडामनी, काफलवाँट, साकिटोल, कोटथर, भुजेलथान, तल्लो हलहले, भंगेरीचौर, माधिल्लो हलहले, मेक्सार र लेस्पा र आदि वस्ति हरु पर्दछन्।	२० की.मी.
३	चिसापानी हुवास बराचौर सडक उप आयोजना	हुवास, त्रिवेणी, बेजलिबास, उरामपोखरा, सालिग्राम र बहाकि।	यो उप आयोजना हुवास, गा.वि.स को चिसापानीबाट शुरु भई बहाकी गा.वि.सको बहाकी भन्ज्याङ्गमा गई टुङ्गिन्छ। यो सडकमा चिन्तनचौक, हातेमालोचौक, अर्थुन बजार, डाडा, कचहरे, बिसुनडाडा, र बहाकी भन्ज्याङ्ग आदि वस्ति हरु पर्दछन्।	१५ की.मी.
४	कार्कीनेटा लुखु सडक उप आयोजना	कार्कीनेटा, थापाघाना र भंगारा।	यो उप आयोजना कार्कीनेटा, गा.वि.स को हिलेखोला बाट शुरु भई भंगारा गा.वि.स र स्याङ्गजा जिल्लाको सिमाना बगालेनेटामा गई टुङ्गिन्छ। यो सडकमा दुङ्गे खाटा टोल, रातोमाटा, घोप्टे चौर, कार्कीनेटा बजार, बगालेनेटा, आदि वस्ति हरु पर्दछन्।	१० की.मी.

उक्त प्रस्तावको कार्यान्वयनबाट वातावरणमा पर्न सक्ने प्रभावका बारेमा सम्बन्धित गा. वि. स., विद्यालय, स्वास्थ्य चौकी,  
बन उपभोक्ता समिति तथा अन्य सरोकारवाला व्यक्ति वा संस्थाले यो सूचना प्रकाशित भएको मितिले १५  
(पन्ध्र) दिन भित्र निम्न ठेगानामा आफ्नो राय सुझाव पठाइ सहयोग गरी दिनु हुन अनुरोध गरिन्छ।  
राय सुझाव पठाउने ठेगाना:-

जिल्ला विकास समितिको कार्यालय पर्वत फोन नं ०६७-४२०२५६ फ्याक्स नं ०६७-४२०१४४	जिल्ला प्राविधिक कार्यालय पर्वत फोन नं ०६७-४२०१५१, ०६७-४२११६५
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## Annex VII: Name of the Organizations

### Name of the Organizations (notice pasted and deed of inquiry obtained)

SN	Name or Organization	Address	Remarks
1	District Development Committee	Kushma	
2	District Technical Office	Kushma	
3	Chuwa VDC	Chuwa	
4	Pakuwa VDC	Pakuwa	
5	Katuwachoupari VDC	Cycle Chowk	
6	Pipaltari VDC	Pipaltari	
7	Mudikuwa VDC	Matedewal school	
8	Devisthan VDC	Phalebas campus	
9	Agricultural Service Center	Devistha VDC, Rahale bazar	

Source: Field Survey July/August, 2009

## Annex VIII: List of persons consulted

### List of persons consulted

SN	Name	Designation	Address
1	Raju Sapkota	Soil Conservation Officer	DWSCC
2	Kamal Pokharel	Officer	DADO
3	Harischandra Sapkota	Forest Officer	DFO
4	Rudra Prasad Tibari	Social Worker	Mudikuwa VDC
5	Dev Bandu Regmi	VICCC member	Mudikuwa VDC
6	Laxmi Poudel	VICCC member	Mudikuwa VDC
7	Sita Poudel	VICCC member	Mudikuwa VDC
8	Dibakar Sapkota	VICCC member	Mudikuwa VDC
9	Chandra Kala Nepali	VICCC member	Mudikuwa VDC
10	Saraka Khadga	Social Worker	Katuwachopari VDC
11	Kamal Tibari	VICCC member	Katuwachopari VDC
12	Lal Bhadur Shrestha	Buisness	Katuwachopari VDC
13	Sita G.C.	VICCC member	Katuwachopari VDC
14	Ram Prasad Adhikari	VICCC member	Katuwachopari VDC
15	Raj Kumar Chetri	VICCC member	Chuwa VDC
16	Muga Sharna	Social Worker	Chuwa VDC
17	Sujan K.C.	Buisness	Chuwa VDC
18	Shiva Chetri	VICCC member	Chuwa VDC
19	Resham Subedi	VICCC member	Chuwa VDC
20	Bhim Bhadur Nepali	VICCC member	Pakuwa VDC
21	Khum Prasad Subedi	Social Worker	Pakuwa VDC
22	Suvas Adhikari	VICCC member	Pakuwa VDC
23	Devi Sharma	Buisness	Pakuwa VDC
24	Chuna Mani Bishwakarma	Social Worker	Pakuwa VDC
25	Mahendra Poudel	VICCC member	Pipaltari VDC
26	Tej Kumari Sharma	Social Worker	Pipaltari VDC
27	Bhagirathi Nepali	VICCC member	Pipaltari VDC
28	Suman Lamichane	Social Worker	Pipaltari VDC
29	Kishor Raj Regmi	Social Worker	Devisthan VDC
30	Gourab Bhusal	Social Worker	Devisthan VDC
31	Prem Narayan Shrestha	VICCC member	Devisthan VDC
29	Basanta Kumar Shrestha	VICCC member	Devisthan VDC

Source: Field Survey, July, 2009

## Annex IX: Land Use Pattern Along the Road Alignment

### Summary of land use pattern along the road alignment

Land use	Chainage	Length (m)	Existing width	Additional Width (m)	Additional Area (ha)
Cultivated land	0+500-0+700	200	4	1	0.02
	1+100-2+500	1400	4	1	0.14
	4+200-4+900	700	4	1	0.07
	5+200-6+000	800	4	1	0.08
	7+000-9+500	2500	4	1	0.25
	10+800-11+200	400	4.5	0.5	0.02
	12+250-13+100	850	4.5	0.5	0.042
<b>Total cultivated land</b>					<b>0.622</b>
Barren and Pasture land	0+000-0+500	500	4	1	0.05
	0+700-1+100	400	3.5	1.5	0.06
<b>Total Barren and Pasture land</b>					<b>0.11</b>
Forest(government )	2+500-3+350	850	3.5	1.5	0.127
	6+000-7+000	1000	3.5	1.5	0.15
	10+100-10+800	700	3.5	1.5	0.105
<b>Total Forest land</b>					<b>0.382</b>
Built up area	3+350-4+200	850	4	1	0.085
	4+900-5+200	300	4.5	0.5	0.015
	9+500-10+100	600	4.5	0.5	0.03
	11+200-12+250	1050	4	1	0.105
	13+100-14+100	1000	4.5	0.5	0.05
	14+100-15+500	1400	4.5	0.5	0.07
<b>Total Built up area</b>					<b>0.355</b>

Source: Field Survey, July/August, 2009



## Annex XI

**XI a. Distribution of households by major occupation**

**XI b. Summary of public services & infrastructures**

**XI c. Land holding pattern of settlements within Zol**

**XI d. Number of households belonging to different food security category**

### Annex XIa: Distribution of households by major occupation

Settlement Name	Number of HH in (in percentage)					
	Agriculture & Livestock	Labour & Porter	Business/ Commerce	Cottage Industry	Employees	Others (specify)
Dovilla	20	15	35	2	17	89
Silmi	51	17	3	3	10	84
Majgaun	73	27	21	11	24	156
Lamachaur	56	21	18	8	2	105
Badahare	53	18	19	5	7	102
Deuti Bazar	61	21	28	13	5	128
Cycle chowk	71	12	43	9	10	145
Sirsuwa	62	13	29	1	4	109
MudikuwaBazar (MatedewalTole)	63	28	29	14	15	149
Satbise	70	22	27	5	12	136
Serachour	123	31	28	7	18	207
Danda	107	32	26	14	19	198
Naya Bazar	113	36	26	9	27	211
Rahale bazaar	109	41	39	5	10	204
Chandantar	89	27	25	12	15	168
Satkuriya	93	15	24	9	16	157
Choubisekuriya	103	27	25	5	18	178
Tutunga	176	25	38	9	38	286
Total	1493	428	483	141	267	2812
<b>Average (%)</b>	<b>53%</b>	<b>15%</b>	<b>17%</b>	<b>5%</b>	<b>9%</b>	<b>100%</b>

*Source: field survey, July, 2009*

**Annex Xlb: Summary of public services & infrastructures**

Settlement Name/	SCHOOL (NO)	HEALTH POST (NO)	POST OFFICE (NO.)	COMMUNICATION (NO) CDMA/MOBI	HYDRO POWER (NO)	SOLAR (NO)	SHOPS/LOGG E (NO)	WATER SUPPLY (NO)	IRRIGATION (KULO)	MILL (NO)	BRIDGE (NO)	COMMUNITY ORGANIZATI	FIN. INSTITUTION	COMMUNITY CENTRE	INDUSTRY
Dovilla	1	-	1	6	-	-	16	2	-	1	1	1	-	1	-
Silmi	2	-	1	26	-	-	4	1	-	-	-	-	-	-	-
Majgaun	2	-	-	23	-	7	3	3	-	-	-	2	-	1	-
Lamachaur	2	-	-	11	-	8	5	1	-	-	-	-	-	-	-
Badahare	1	-	-	27	-	-	4	3	-	-	-	1	-	-	-
Deuti Bazar	1	-	1	34	-	-	11	2	-	-	-	1	-	-	-
Cycle chowk	3	-	1	13	-	-	21	1	1	1	-	-	-	1	1
Sirsuwa	1	-	-	45	-	-	5	1	-	-	-	3	-	-	-
MudikuwaBazar(MatedewalTol e),	2	1	1	21	-	-	13	2	-	-	-	-	-	1	-
Satbise	1	-	-	31	-	-	7	1	-	-	-	1	-	-	-
Serachour	1	-	-	29	-	-	4	1	-	-	-	1	-	-	-
Danda	1	-	-	10	-	-	5	1	-	1	-	2	-	-	-
Naya Bazar	2	1	-	9	-	-	23	1	-	-	-	-	-	1	-
Rahale bazaar	2	2	-	8	-	-	27	2	-	-	-	1	-	-	-
Chandantar	2	-	-	14	-	-	3	3	-	-	-	2	-	-	-
Satkuriya	2	1	-	17	-	-	7	1	-	-	-	2	-	-	-
Choubisekuriya	1	-	-	30	-	-	9	1	-	-	-	1	-	-	-
Tutunga	3	2	1	33	-	-	17	1	-	1	-	-	-	1	-
Total	30	7	6	387	-	15	184	28	1	4	1	18	0	6	1

Source: field survey, July, 2009

**Annec XI c: Land holding pattern of settlements within Zol**

Settlement Name	Number of HH							
	Landle ss	<one ropani	1-5 ropani	5-10 ropani	10-20 ropani	20-50 ropani	>50 ropani	Total
Dovilla	1	39	40	9	1	-	-	89
Silmi	3	52	24	8	-	-	-	84
Majgaun	3	64	61	28	3	-	-	156
Lamachaur	3	23	51	29	2	-	-	105
Badahare	1	36	52	12	2	-	-	102
Deuti Bazar	-	25	67	31	5	-	-	128
Cycle chowk	3	62	61	21	1	-	-	145
Sirsuwa	5	71	32	4	2	-	-	109
MudikuwaBazar(MatedewalT ole	5	76	57	13	3	-	-	149
Satbise	1	59	47	27	3	-	-	136
Serachour	1	87	82	34	4	-	-	207
Danda	2	101	75	21	1	-	-	198
Naya Bazar	4	83	98	28	2	-	-	211
Rahale bazaar	1	142	45	11	6	-	-	204
Chandantar	2	80	63	21	4	-	-	168
Satkuriya	3	72	46	24	15	-	-	157
Choubisekuriya	2	45	88	39	6	-	-	178
Tutunga	5	137	92	41	16	-	-	286
<b>Total</b>	<b>45</b>	<b>1254</b>	<b>1081</b>	<b>401</b>	<b>76</b>	<b>0</b>	<b>0</b>	<b>2812</b>

**Annex XI d: Number of households belonging to different food security category**

Settlement Name	Surplus	Sufficient for whole year	Sufficient for 3-9 months	Sufficient for three months	Less than three months	Total
Dovilla	11	27	34	9	8	89
Silmi	9	23	38	7	7	84
Majgaun	14	38	84	9	11	156
Lamachaur	7	29	57	7	5	105
Badahare	9	21	55	8	9	102
Deuti Bazar	11	31	65	12	9	128
Cycle chowk	7	38	81	12	7	145
Sirsuwa	9	31	59	5	5	109
MudikuwaBazar(MatedewalTole)	11	33	84	14	7	149
Satbise	13	35	75	8	5	136
Serachour	9	45	139	9	5	207
Danda	6	41	136	9	6	198
Naya Bazar	17	47	129	11	7	211
Rahale bazaar	14	51	125	9	5	204
Chandantar	7	33	116	8	4	168
Satkuriya	5	39	93	11	9	157
Choubisekuriya	11	41	119	4	3	178
Tutungra	17	56	193	11	9	286
Total	187	659	1682	163	121	2812
<b>Average (%)</b>	<b>7%</b>	<b>23%</b>	<b>60%</b>	<b>6%</b>	<b>4%</b>	<b>100%</b>

Source: field survey, July, 2009

**Annex XII: List of trees to be removed**
**Details of affected trees**

Chainage		Numbers	Species
From	To		
2+200	2+900	77	Chilaune, Sal, Uttis
4+600	5+300	31	Chilaune, Sal, Bamboo
5+900	6+000	22	Chilaune, Sal, Uttis
6+000	6+100	11	Chilaune, Uttis
6+100	6+200	9	Chilaune, Uttis
7+200	7+900	43	Chilaune, Uttis, Sal
9+100	9+200	21	Chilaune, Uttis, Sal
9+400	9+500	8	Chilaune, Uttis, Sal
9+600	9+700	10	Chilaune, Uttis
9+800	9+900	11	Chilaune
11+550	12+000	10	Chilaune, Aru
15+200	15+500	16	Chilaune, Aru
Total		<b>269</b>	

Source: field survey, July, 2009

➤ Detail about the loss of tree and their cost will be included in the resettlement plan.

## Annex XIII: Photographs

### Photographs of project Area



*Critical section at chainage (8+855) Ghuneula*



*Dovilla Chowk Starting point (Chainage 0+000)*



*Need Irrigation canal should be relocated*



*Need Better water management At chainage 0+570*



*Existing PCC causeway at chainage 1+760*



*Proposed 25 m single span bridge at ch.6+840(Myangdi khola)*



*Durga temple in RoW at chainage (3+270)*



*Moterable Suspension Bridge on the road alignment at chainage 0+860*



*need resettlement work at chainage 13+200*



*Need to cut tree on the rod alignment at chainage 13+400*

## Annex XIV: Summary of Cross Drainage Structures

Summary of Drainage works along the road alignment

SN	Chainage	Name of the river	Terrain	Type of Cross Drainage	Soil type	Remarks
1	0+800	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
2	0+860	Modi river	Mountains	Bridge	OR/HR	73 m span motareable bridge(existing)
3	1+000	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
4	1+500	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
5	1+850	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
6	6+840	Mlyangdi Khola	Mountains	Bridge	OR	25 m single span(Proposed)
7	7+950	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
8	8+800	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
9	11+627	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
10	11+660	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
11	12+100	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
12	12+135	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
13	12+920	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
14	13+100	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
15	13+200	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)
16	14+050	Kholsi	Mountains	PC	OR	60 cm dia(Proposed)

Source: Field survey, July, 2009

## Annex XV: Affected Houses and Structures along the Road Alignment

Affected Houses and Structures along the Road Alignment

S.N.	Chainage	Feature	Number	Distance form Road	Location	Remarks
1	5+150	Business Stall	2	RoW	Cycle chowk	
2	10+640	Business Stall	1	RoW	Mudikuwa bazar	
3	12+320	Private House	1	RoW	Rahale Bazar	
4	12+430	Business Stall	3	RoW	Rahale Bazar	
5	13+200	Business Stall	3	RoW	Naya bazar	
6	14+350	Private House	2	RoW	Choubis kuriya	
7	14+880	Private House	1	RoW	Tutungga	
8	15+300	Business Stall	3	RoW	Tutungga	

Source: field survey, July, 2009

Detail about the loss of structures along the road alignment and their cost will be included in the resettlement plan.

## Annex XVI: Structure for Slope Stabilization

Recommended structures necessary for slope stabilization at various places

SN	Chainages	Necessary structures/Mitgation Measures
	0+336	Retaining wall
	0+720	Retaining wall
	2+063	Retaining wall
	2+940	Retaining wall
	8+060	Retaining wall
	8+944	Retaining wall
	12+120	Retaining wall

Source: Field Survey, July, 2009