

APPENDIX - A

Gram Panchayat Unit and Development Block of Sikkim

GPU No. (1)	Name Of The GPU (2)	District (3)	Name Of The Block (4)
1	Ship Gyer	North	Chungthang
2	Chungthang	North	Chungthang
3	Lachung	North	Chungthang
4	Lachen	North	Chungthang
5	Lum-Gor -Sangtok	North	Dzongu
6	Sakyong Pentong	North	Dzongu
7	Tingvong	North	Dzongu
8	Lingthem Lingdem	North	Dzongu
9	Posingdang Safo	North	Dzongu
10	Barfok Lingdong	North	Dzongu
11	Hee Gyathang	North	Dzongu
12	Men Rongong	North	Kabi Tingda
13	Lingdok	North	Kabi Tingda
14	Rongong Tumlong	North	Kabi Tingda
15	Phensang	North	Kabi Tingda
16	Kabi Tingda	North	Kabi Tingda
17	Navey Shotak	North	Kabi Tingda
18	Ringmin Nampatam	North	Mangan
19	Sentam	North	Mangan
20	Toong Naga	North	Mangan
21	Tingchim Mangshila	North	Mangan
22	Namok Sheyam	North	Mangan
23	Ramthang Tangyek	North	Mangan
24	Upper Fambong	West	Daramdin
25	Lungchok Salyangdang	West	Daramdin
26	Siktam Tikpur	West	Daramdin
27	Lower Fambong	West	Daramdin
28	Burikhop	West	Daramdin
29	Okherey	West	Soreng
30	Ribdi Bhareng	West	Daramdin
31	Barnyak Barthang	West	Daramdin
32	Maneybung Sopakha	West	Dentam
33	Sangkhu Radukhandu	West	Dentam
34	Bongten Sapong	West	Dentam
35	Karmatar Gyaten	West	Dentam
36	Dentam	West	Dentam
37	Hee	West	Dentam
38	Pecherek Martam	West	Dentam
39	Darap	West	Dentam
40	Yangten	West	Gyalshing
41	Singyang Chumbung	West	Gyalshing
42	Lingchom Tikjya	West	Gyalshing
43	Yangthang	West	Gyalshing
44	Sardung Lungzik	West	Gyalshing
45	Geyzing Omgchung	West	Gyalshing
46	Samdong	West	Gyalshing
47	Tadong Rinchenpong	West	Kaluk
48	Takothang	West	Kaluk
49	Deythang	West	Kaluk
50	Sangadorji	West	Kaluk
51	Chingthang	West	Kaluk
52	Khaniserbong Suntoley	West	Kaluk
53	Timburbong	West	Soreng

(1)	(2)	(3)	(4)
54	Malbasey	West	Soreng
55	Soreng	West	Soreng
56	Tharpu	West	Soreng
57	Chumbong	West	Soreng
58	Zoom	West	Soreng
59	Chakung	West	Soreng
60	Chota Samdong Arubotey	West	Soreng
61	Samsing Gelling	West	Soreng
62	Mabong Segeng	West	Soreng
63	Suldung Kamling	West	Soreng
64	Dodak	West	Soreng
65	Mandogaon Berbotey	West	Soreng
66	Singling	West	Soreng
67	Rumbuk	West	Soreng
68	Dhupidara-Narkhola	West	Yuksam
69	Kongri Labdang	West	Yuksam
70	Thingle Khachodpalri	West	Yuksam
71	Yuksam	West	Yuksam
72	Melli	West	Yuksam
73	Tashiding	West	Yuksam
74	Karzi Mangnam	West	Yuksam
75	Arithang Chongrang	West	Yuksam
76	Gerethang	West	Yuksam
77	Sadam Suntoley	South	Melli
78	Mellidara Paiyong	South	Melli
79	Turuk Ramabung	South	Melli
80	Lungchok Kamarey	South	Melli
81	Sumbuk Kartikey	South	Melli
82	Mikhola Kitam	South	Namchi
83	Assangthang	South	Namchi
84	Rong-Bul	South	Namchi
85	Sorok-Shyampani	South	Namchi
86	Maniram Singithang	South	Namchi
87	Damthang	South	Namchi
88	Rateypani	South	Namthang
89	Tangzi Bikmat	South	Namthang
90	Nagi Pamphok	South	Namthang
91	Maneydara	South	Namthang
92	Tingrithang	South	Namchi
93	Tinik Chisopani	South	Jorethang
94	Salghari	South	Jorethang
95	Poklok Denchung	South	Jorethang
96	Mamley Kamrang	South	Namchi
97	Turung Mamring	South	Namthang
98	Ravang Sangmoo	South	Ravangla
99	Legship	South	Ravangla
100	Borong Phamthang	South	Ravangla
101	Ralong Namlung	South	Ravangla
102	Kewzing Bakhim	South	Ravangla
103	Barfung Zarung	South	Ravangla
104	Tiniktam Rayong	South	Sikip
105	Lamting Tingmo	South	Sikip
106	Sanganath	South	Sikip
107	Wak Omchu	South	Sikip
108	Ben Namphrik	South	Temi Tarku
109	Namphing	South	Temi Tarku
110	Chuba Phong	South	Namthang

(1)	(2)	(3)	(4)
111	Barnyak Tokal	South	Temi Tarku
112	Tarku	South	Temi Tarku
113	Temi	South	Temi Tarku
114	Chuba	South	Namthang
115	Rameng Nizrameng	South	Temi Tarku
116	Yangang Rangang	South	Yangang
117	Sripatam Gagyong	South	Yangang
118	Niya-Mangzing	South	Yangang
119	Lingi	South	Yangang
120	Paiyong	South	Yangang
121	Lingmo-Kolthang	South	Yangang
122	Central Pendam	East	Duga
123	East Pendam	East	Duga
124	West Pendam	East	Duga
125	Sumin Lingzey	East	Duga
126	Namli	East	Gangtok
127	Samlik Marchak	East	Gangtok
128	Tathangchen Syari	East	Gangtok
129	Naitam Nandok	East	Gangtok
130	Assam Lingzey	East	Gangtok
131	Gnathang	East	Gangtok
132	Byeng-Phegyong	East	Khamdong
133	Simik Lingzey	East	Rakdong Tintek
134	Martam Nazitam	East	Khamdong
135	Sirwani Tshalumthang	East	Khamdong
136	Khamdong	East	Khamdong
137	Singbel	East	Khamdong
138	Thekabong Parkha	East	Pakyong
139	Kartok Namcheybong	East	Pakyong
140	Amba	East	Pakyong
141	Changey Senti	East	Pakyong
142	Aho Yangtam	East	Pakyong
143	Latuk-Chuchenpheri	East	Pakyong
144	Riwa Machong	East	Pakyong
145	Pacheykhani	East	Pakyong
146	Rakdong Tintek	East	Rakdong Tintek
147	Samdong Kambel	East	Rakdong Tintek
148	Tumin	East	Rakdong Tintek
149	Ranka	East	Ranka
150	Rey Mendu	East	Ranka
151	Rawtey Rumtek	East	Ranka
152	Luing Parbing	East	Ranka
153	Lingtam Phadamchen	East	Regoh
154	Chujachen	East	Regoh
155	Rolep Lamaten	East	Regoh
156	Premlakha Subaneydara	East	Regoh
157	Dolepchen	East	Regoh
158	Regoh	East	Regoh
159	Aritar	East	Regoh
160	Linkey Tareythang	East	Rhenock
161	Taza	East	Rhenock
162	Sudunglakha	East	Rhenock
163	Rhenock Tarpin	East	Rhenock

Source: DESME, 2008.

APPENDIX - B

Gram Panchayat Unit and Gram Panchayat Ward of Yuksam Development Block

Name of the GPU (1)	Ward Number (2)	Name of the Ward (3)
K.Mangnam	1	Mangder
	2	Lower Mangnam
	3	Upper Mangnam
	4	Upper Karchi
	5	Lower Karchi
D.Narkhola	6	Narkhola
	7	Pokhri
	8	Rungdung
	9	Upper Dhupidara
	10	Yangtam
	11	Lower Dhupidara
K.Labdang	12	Upper Labdang
	13	Middle Labdang
	14	Lower labdang
	15	Kongri-Naku
	16	Kongri-Maneydara
Tashiding	17	Ganggep (Ngadak Gumpa)
	18	Mangthyang
	19	Upper Lasso
	20	Lower Lasso
	21	Tashiding (Gumpa)
	22	Nerdang
A.Chongrang	23	Upper Chongrang
	24	Middle Chongrang
	25	Lower Chongrang
	26	Nesa
	27	Arithang
Gerethang	28	Upper Gerethang
	29	Tamatam
	30	Lower Gerethang
	31	Upper Labing (Gumpa)
	32	Bhirkuna Lingyang
	33	Lower Labing
Yuksam	34	Tsokha-Kyongtek
	35	Yuksom-Ramgaythang
	36	Ting-Ting
	37	Mangsabung
	38	T.Gufadara
	39	Dubdi (Sangha Gumpa)
T.Khachodpalri	40	Thingle-I
	41	Thingle-II
	42	Thingle-III
	43	Khachodpalri (Gumpa)
	44	Tsozo

(1)	(2)	(3)
Melli	45	Upper Melli (Gumpa)
	46	Lower Melli
	47	Upper Melliaching
	48	Lower Melliaching
	49	Singlitam
	50	Tingbrum
	51	Topung

Source: DESME, 2008.

APPENDIX - C

Decadal Growth Rate, Distribution and Density of Population

State/District	Population 2011			Decadal growth rate of population (in per cent)		Area sq.km	Population density per sq. km.	
	Persons	Males	Females	1991-01	2001-11		2001	2011
Sikkim	607688	321661	286027	33.07	12.36	7096.00	76	86
North District	43354	24513	18841	31.34	5.67	59.55	10	10
West District	136299	70225	66074	25.57	10.59	16.43	106	117
South District	146742	76663	70079	33.39	11.57	10.57	175	196
East District	281293	150260	131033	37.32	14.80	13.44	256	295

Source: Census of India, 2011.

APPENDIX - D

Sex ratio of State and Districts: 1971-2011

State/District	Sex-ratio (Number of females per 1000 males)				
	1971	1981	1991	2001	2011
Sikkim	863	835	878	875	889
North District	853	789	828	752	769
West District	937	906	915	929	941
South District	909	854	892	927	914
East District	791	797	859	844	872

Source: Census of India, 2011.

APPENDIX - E

Occupational Structure among the Development Block of Sikkim (in percent)

Development Block	Total Population	Primary Worker	Other Worker	Non Worker
Chungthang	3884	37.00	50.40	12.60
Mangan	6489	53.20	35.90	10.80
Dzongu	4638	59.20	37.50	3.20
Kabi	7340	38.90	56.50	4.50
Rakdong Tintek	10697	42.20	52.00	5.80
Khamdong	8847	51.80	41.90	6.30
Duga	13580	47.60	48.30	4.00
Ranka	7840	42.70	49.00	8.00
Gangtok	14479	27.00	62.00	10.80
Pakyong	14104	44.30	49.20	6.40
Rhenock	7027	47.30	48.00	4.70
Rhegu	11829	42.00	50.70	7.20
Wok	3290	62.50	34.60	2.80
Jorethang	3790	62.50	35.00	2.30
Namchi	10809	56.50	40.30	3.00
Melli	10969	50.80	42.90	6.20
Temi	10796	57.90	37.40	4.70
Namthang	10363	64.40	32.00	3.50
Rabong	12557	64.30	41.80	3.80
Yangang	12097	64.80	32.30	2.80
Yuksam	12372	68.40	29.70	1.80
Geyzing	14798	44.90	51.20	3.80
Kaluk	11656	49.40	44.60	6.00
Soreng	21373	48.90	46.30	4.70
Dentam	14888	58.00	36.97	4.90
Daramdin	10599	58.40	37.30	4.30

Source: State Rural Household Census, 2009.

Note-* Primary Worker (Agriculture wage labour, Non agriculture workers), Other Worker (State Government employees, Central Government services, Private sector, Business man / Trader, Muster roll, Self employed, Contractor, Others) and Non Worker (Unemployed, pensioners, housewife, student).

APPENDIX - F

Demographic Score

Name of the GPU	Density	Sex ratio	Total Literacy	Female Literacy	Working Population	Dependency ratio	Demographic Score	Categories
K. Mangnam	-1.56	0.61	-0.89	-0.86	-1.46	1.47	-0.45	Low
D. Narkhola	-0.94	1.65	-0.99	-0.86	0.24	-0.23	-0.19	Low
K. Labdang	-0.94	-0.53	-1.15	0.81	0.66	-0.66	-0.31	Low
Tashiding	0.06	-0.47	0.94	0.98	1.51	-1.51	0.25	High
A. Chongrang	1.06	-0.68	-0.57	0.31	-0.18	0.19	0.02	Moderate
Gerethang	1.56	-1.25	0.72	-0.78	-1.04	1.04	0.04	Moderate
Yuksam	0.44	-0.65	1.61	-1.20	0.66	-0.66	0.03	Moderate
T. Khachodpalri	0.31	-0.05	0.67	1.65	-1.04	1.04	0.43	High
Melli	0.06	1.38	-0.32	-0.02	0.66	-0.66	0.18	Moderate

Source: Calculated by author

Note: *Dependent Population - the children below 15 years and old people aged above 65 are part of dependent population. **Working Population- is a ratio of adult aged between 15-64 years are considered as an economically active population or working population.

APPENDIX - G

Development block-wise Level of Literates in Sikkim (in per cent)

Development Block	Child Below 7 years	Illiterate	Primary	Secondary	Senior Secondary	Diploma	Graduate	Others**
Chungthang	10.30	28.80	27.30	23.10	5.20	0.40	1.50	3.20
Mangan	16.30	20.00	34.70	22.90	3.20	0.50	1.20	1.10
Dzongu	13.00	11.20	41.10	21.80	4.60	0.30	3.10	4.70
Kabi	9.70	16.80	32.70	26.00	6.30	0.60	3.50	4.30
Rakdong Tintek	9.00	17.10	35.50	26.70	6.00	1.50	2.30	1.80
Khamdong	7.80	20.90	37.20	24.30	4.50	0.50	2.70	2.00
Duga	11.60	16.30	38.40	25.00	4.40	1.00	2.00	1.10
Ranka	14.70	14.30	31.30	26.70	6.10	0.80	3.20	2.90
Gangtok	12.20	15.40	33.40	28.40	5.30	1.10	2.60	1.50
Pakyong	7.90	17.10	32.80	29.70	6.40	1.30	2.70	2.00
Rhenock	13.80	12.80	34.50	26.80	6.00	0.70	3.50	1.80
Rhegu	6.00	18.70	35.20	28.00	6.10	0.80	3.40	1.60
Wok	15.40	20.80	40.60	18.60	2.40	0.40	1.00	0.60
Jorethang	7.90	17.00	40.50	26.90	3.90	0.50	2.30	0.80
Namchi	8.70	14.90	40.30	27.70	4.60	0.70	2.10	0.80
Melli	9.60	16.50	37.20	27.30	5.10	0.40	2.70	1.10
Temi	12.00	20.50	37.60	21.50	4.30	0.40	2.20	1.30
Namthang	9.80	16.00	39.70	26.30	4.40	0.60	2.10	0.90
Rabong	11.90	20.90	37.00	21.80	4.10	0.80	2.00	1.30
Yangang	8.60	16.90	42.60	24.50	4.00	0.50	1.60	1.00
Yuksam	7.50	21.70	46.00	18.00	3.00	0.30	1.80	1.70
Geyzing	9.50	19.60	36.80	24.00	4.90	1.10	2.40	1.50
Kaluk	11.00	21.40	39.30	22.00	3.70	0.50	1.30	0.80
Soreng	9.80	17.10	39.70	24.80	4.50	1.10	1.90	0.90
Dentam	11.60	19.30	36.00	24.00	4.70	0.50	2.40	1.30
Daramdin	9.80	15.80	40.60	24.20	4.70	0.40	2.60	1.80
Percent	11.16	17.64	37.2	24.5	4.75	0.75	2.32	1.59

Source: State Rural Household Census, 2009.

**Other includes - Post Graduate, PhD, religious Literate and other literates.

APPENDIX - H

Current Status of Educational Facilities among the GPU (2010-11)

Name of the GPU	PS		JHS		SS		SSS		LVS	
	NOI	TCH	NOI	TCH	NOI	TCH	NOI	TCH	NOI	TCH
K. Mangnam	2	5	1	8	0	0	0	0	0	0
D. Narkhola	2	7	0	0	0	0	0	0	0	0
K. Labdang	1	5	1	9	0	0	0	0	0	0
Tashiding	9	32	1	10	0	0	1	55	1	3
A. Chongrang	3	10	3	23	0	0	0	0	0	0
Gerethang	1	5	2	15	1	13	0	0	0	0
Yuksam	4	17	0	0	1	18	0	0	0	0
T. Khachodpalri	5	15	1	5	1	19	0	0	0	0
Melli	4	16	1	10	1	12	0	0	0	0
Total	31	112	10	80	4	62	1	55	1	3

Source: VDAP, 2011.

Note: NOI means number of institution, TCH - teacher, PS - Primary School, JHS - Junior High School, SS - Secondary School, SSS - Senior Secondary School and LVS - Livelihood School.

APPENDIX - I

District-wise Health Care Services

Health Care Services	East	West	North	South	State
State Referral Hospital	1	0	0	0	1
Manipal Central Referral Hospital	1	0	0	0	1
Community Health Centre	1	1	1	1	4
Primary Health Centre	8	7	3	6	24
Primary Health Sub-Centre	48	41	19	39	147
Total	59	49	23	46	177

Source: Health Care, Human Services and Family Welfare, 2005.

APPENDIX - J

District-wise Population/Doctor, Population/Beds and Patient/Doctor

Particulars	East	West	North	South	State Average
Population/Doctor	2024	4810	3096	3631	2757
Population/Beds	555	821	357	677	600
Patient/Doctor	3.65	5.86	8.67	5.37	4.59
Number of beds in hospital	1000	170	130	220	380

Source: Health Care, Human Services and Family Welfare, 2006-07.

APPENDIX - K

Health care units, Communication and Social Amenities among the GPU

Name of the GPU	PHSC*	PHC**	T. Beds*	Post Office	Internet Service
K. Mangnam	1	0	0	0	0
D. Narkhola	0	0	0	1	0
K. Labdang	1	0	0	0	0
Tashiding	0	1	10	1	1
A. Chongrang	0	0	0	1	0
Gerethang	1	0	0	1	0
Yuksam	0	1	10	1	2
T. Khachodpalri	1	0	0	1	0
Melli	1	0	0	1	0

Note: PHSC*- Primary Health Sub Centre, PHC**- Primary Health Centre and T. Beds* - Total number of beds.

Source: Field survey, 2010-2011.

APPENDIX - L

Sanitation Facilities among the Development Block of Sikkim

Development Block	Household with Toilet (in per cent)
Chungthang	97
Mangan	98
Dzongu	99.50
Kabi	98.60
Rakdong Tintek	99.30
Khamdong	99.20
Duga	99.40
Ranka	99.40
Gangtok	99.30
Pakyong	99.70
Rhenock	99.00
Rhegu	99.20
Wok	99.80
Jorethang	99.00
Namchi	99.00
Melli	97.40
Temi	99.30
Namthang	99.60
Rabong	99.40
Yangang	99.40
Yuksam	99.50
Geyzing	96.00
Kaluk	99.20
Soreng	99.40
Dentam	99.70
Daramdin	99.20
Total Household (in %)	99.00

Source: State Rural Household Census, 2009.

APPENDIX - M

Sanitation Facilities among the GPUs of Yuksam development block

Name of the GPU	Household with Toilet (in per cent)
K. Mangnam	100.00
D. Narkhola	100.00
K. Labdang	100.00
Tashiding	100.00
A. Chongrang	98.00
Gerethang	99.10
Yuksam	100.00
T. Khachodpalri	99.30
Melli	100.00
Total	99.50

Source: DESME, 2008 and Field survey, 2010-2011.

APPENDIX - N

Land use pattern of Sikkim (in hectare)

Type	Area	Area (in %)
Cultivable area	1,09,068	14.91
Permanent pastures	73,947	10.14
Land put to non agricultural use	85,362	11.70
Barren land (glaciers)	1,80,230	24.70
Land under miscellaneous trees & groves	5,450	0.75
Forests	2,76,553	37.90
Total geographical area	7,09,600	100.00

Source: Economic survey, 2006-07.

APPENDIX - O

Development Block-wise rural area and Land use pattern (in per cent)

Development Block	Total area (in ha)	Paddy Field	Dry land	Wasteland	Cardamom
Chungthang	10,755	0.01	20.00	27.00	53.00
Mangan	7,809	6.00	58.00	7.00	29.00
Dzongu	16,761	2.00	38.00	12.00	48.00
Kabi	5,893	9.00	57.00	9.00	25.00
R.Tintek	5,174	21.00	49.00	17.00	13.00
Khamdong	4,743	17.00	41.00	27.00	15.00
Duga	5,029	7.00	38.00	36.00	19.00
Ranka	2,832	27.00	32.00	22.00	20.00
Gangtok	4,400	12.00	45.00	33.00	10.00
Pakyong	5,765	16.00	54.00	16.00	15.00
Rhenock	3,942	18.00	35.00	19.00	28.00
Rhegu	8,088	6.00	52.00	17.00	28.00
Wok	3,464	1.00	64.00	32.00	3.00
Jorethang	1,858	5.00	67.00	24.00	5.00
Namchi	6,718	1.00	61.00	31.00	7.00
Melli	4,001	7.00	55.00	32.00	6.00
Temi	5,265	7.00	63.00	27.00	3.00
Namthang	5,817	3.00	62.00	32.00	3.00
Rabong	6,699	4.00	72.00	20.00	5.00
Yangang	6,017	12.00	65.00	20.00	3.00
Yuksam	10,457	2.00	60.00	34.00	4.00
Geyzing	6,301	11.00	69.00	13.00	6.00
Kaluk	5,918	3.00	65.00	21.00	11.00
Soreng	8,979	6.00	62.00	24.00	8.00
Dentam	6,439	11.00	63.00	16.00	10.00
Daramdin	4,173	9.00	59.00	2.00	29.00
State Rural Area (%)	163,297	7.00	59.00	21.00	29.00

Source: State Rural Household Census, 2009.

APPENDIX - P

District-wise Land Distribution and Minor Irrigation Channel Constructed till 2003-04

District	Number of Channel	Cultivable command area (Ha)	Total Area (Ha)	Percentage share
East	460	9467.99	31,846.16	28.96
North	87	2097.9	16,228.00	14.75
South	290	6173.54	29,629.77	26.95
West	301	6124.62	32,259.07	29.34
Total	1138	23864.05	109,963.00	100.00

Source: Economic survey, 2006-07, Land Records Section, Department of Land Revenue, Government of Sikkim.

APPENDIX - Q

Horticulture Production in Sikkim 1975-2006 (tonnes)

Crops	1975-76	1980-81	1985-86	1990-91	2002-03	2005-06
Fruits	4700	6350	8200	10500	6530	13465
Vegetables	2000	3400	13900	15000	26000	44969
Potato	5000	6646	16400	18000	23715	33140
Large Cardamom	2300	3500	3900	2600	4200	3520
Ginger	2000	3200	10900	16000	23000	36000

Source: Economic Survey, 2006-07.

APPENDIX - R

Veterinary and Banking Facilities

Name of the GPU	Veterinary Centre	Stockman Centre	Banking Facilities
K. Mangnam	0	0	0
D. Narkhola	0	0	0
K. Labdang	0	0	0
Tashiding	1	0	0
A. Chongrang	0	0	1
Gerethang	0	1	1
Yuksam	1	0	1
T. Khachodpalri	0	0	0
Melli	0	1	0

Source: Field survey, 2011-2012.

APPENDIX - S

Economic Score

Name of the GPU	Irrigated Area	Primary Worker	Per Capita Income	Number of Banking Facilities	Economic Score	Categories
K. Mangnam	-0.43	-0.04	-1.21	-0.66	-0.59	Low
D. Narkhola	-0.43	-0.97	-0.31	-0.66	-0.59	Low
K. Labdang	-0.43	-1.32	0.82	-0.66	-0.40	Low
Tashiding	-0.43	-1.12	1.41	-0.66	-0.20	Low
A. Chongrang	0.46	0.26	1.24	1.34	0.83	High
Gerethang	2.55	0.88	0.03	1.34	1.20	High
Yuksam	-0.43	0.20	-0.35	1.34	0.19	Moderate
T. Khachodpalri	-0.43	1.74	-1.44	-0.66	-0.20	Low
Melli	-0.43	0.38	-0.19	-0.66	-0.23	Low

Source: Calculated by author

APPENDIX - T

Status of Infrastructure in Yuksam Development Block

GPU Number		GPU1	GPU2	GPU3	GPU4	GPU5	GPU6	GPU7	GPU8	GPU9
Total Household		79	136	169	592	328	375	520	479	410
Total Population		554	980	1025	3405	1826	2225	2409	2544	2366
Household as on 31st March, 2008	Pucca	1.20	3.00	3.00	12.60	9.00	11.00	19.60	5.00	11.00
	Semi Pucca	76.00	47.00	76.00	57.00	58.00	60.00	57.40	64.00	58.00
	Kutcha	22.80	50.00	21.00	30.50	33.00	29.00	23.00	31.00	31.00
Households (with toilets)		100.00	100.00	100.00	100.00	98.00	98.30	100.00	99.30	100.00
Number of Hotels & Guest House		1	0	1	7	1	2	16	2	3
Number of shops		0	3	2	32	14	7	14	19	15
Number of Educational Institution		3	2	3	11	6	4	7	7	7
Number of Health Care Centre		1	0	1	1	0	1	1	1	1
Number of Shared Jeep service		2	5	5	13	8	6	23	17	7
Number Bridges & Foot Path		10	14	15	14	10	16	18	7	8
Household enjoying tap water (%)		66.70	65.90	72.50	79.80	78.60	62.80	76.00	83.20	79.70
Police outpost		0	0	0	1	0	1	1	1	0
Electrified Household (%)		91.70	97.60	98.00	99.40	89.70	89.40	96.70	98.00	96.00

Source: DESME, 2008 and VDAC, 2011.

Note: (GPU 1- K. Mangnam, GPU 2 - D. Narkhola, GPU 3 - K. Labdang, GPU 4 - Tashiding, GPU 5 - A.Chongrang, GPU 6 - Gerethang, GPU 7 - Yuksam, GPU 8 - T.Khachodpalri, GPU 9 - Melli)

APPENDIX - U

GPW-wise Road Network

Name of the GPU (1)	Name of the Ward (2)	Connected by road (Yes / No) (3)	Type of road (4)
K.Mangnam	Mangder	No	-
	Lower Mangnam	No	-
	Upper Mangnam	Yes	SPWD
	Upper Karchi	No	-
	Lower Karchi	No	-
D.Narkhola	Narkhola	Yes	SPWD
	Pokhri	Yes	SPWD
	Rungdung	No	-
	Upper Dhupidara	Yes	SPWD
	Yangtam	Yes	SPWD
	Lower Dhupidara	No	-
K.Labdang	Upper Labdang	Yes	SPWD
	Middle Labdang	Yes	SPWD
	Lower labdang	Yes	SPWD
	Kongri-Naku	Yes	SPWD
	Kongri-Maneydara	Yes	SPWD
Tashiding	Ganggep(Ngadak Gumpa)	Yes	SPWD
	Mangthyang	Yes	PMGSY
	Upper Lasso	Yes	SPWD
	Lower Lasso	Yes	SPWD
	Tashiding (Gumpa)	Yes	SPWD
	Nerdang	Yes	SPWD
A.Chongrang	Upper Chongrang	Yes	PMGSY
	Middle Chongrang	Yes	SPWD
	Lower Chongrang	Yes	PMGSY
	Nesa	Yes	PMGSY
	Arithang	Yes	SPWD
Gerethang	Upper Gerethang	Yes	SPWD
	Tamatam	Yes	PMGSY
	Lower Gerethang	No	-
	Upper Labing (Gumpa)	Yes	PMGSY
	Bhirkuna Lingyang	Yes	PMGSY/SPWD
	Lower Labing	Yes	PMGSY
Yuksam	Tsokha-Kyongtek	Yes	PMGSY
	Yuksom-Ramgaythang	Yes	SPWD
	Ting-Ting	Yes	SPWD
	Mangsabung	Yes	SPWD
	T.Gufadara	Yes	SPWD
	Dubdi (Sangha Gumpa)	Yes	PMGSY
T.Khachodpalri	Thingle-I	Yes	SPWD
	Thingle-II	No	-
	Thingle-III	Yes	SPWD
	Khachodpalri (Gumpa)	Yes	SPWD
	Tsozo	Yes	SPWD

(1)	(2)	(3)	(4)
Melli	Upper Melli (Gumpa)	No	-
	Lower Melli	Yes	SPWD
	Upper Melliaching	Yes	SPWD
	Lower Melliaching	Yes	SPWD
	Singlitam	Yes	SPWD
	Tingbrum	Yes	PMGSY
	Topung	Yes	PMGSY

Source: VDAP, 2011.

Note: (SPWD - Sikkim Public Works Department, PMGSY - Pradhan Mantri Gram Sadak Yojana).

APPENDIX - V

Footpath and Bridges

Name of the GPU	Total Number of Foot Path	Wooden Bridge	Steel Bridge	RCC Bridge	Total Number of Bridge
K. Mangnam	7	1	2	0	3
D. Narkhola	7	3	3	1	7
K. Labdang	11	4	0	0	4
Tashiding	9	3	1	1	5
A. Chongrang	6	0	0	4	4
Gerethang	10	3	1	2	6
Yuksam	12	1	3	2	6
T. Khachodpalri	6	0	1	1	1
Melli	7	0	0	1	1
Total	75	15	11	12	37

Source: VDAP, 2011 and Field survey, 2011-2012.

APPENDIX - W

Block-wise Drinking Water Shortage Household (in percent)

Development Block (1)	Number of Water Shortage Household (2)	Percent (3)
Rhenock	1908	96.00
Khamdong	1749	76.00
Namthang	2086	76.00
Rakdong Tintek	2234	73.00
Jorethang	777	73.00
Wok	672	72.00
Soreng	4402	70.00
Kaluk	1924	64.00
Namchi	1908	63.00
Melli	1839	61.00
Duga	2261	60.00
Temi	1793	60.00
Pakyong	2257	58.00
Yangang	1764	58.00
Geyzing	2429	58.00
Gangtok	2282	52.00
Daramdin	1482	49.00

(1)	(2)	(3)
Rhegu	1553	48.00
Rabong	1702	47.00
Yuksam	1299	41.00
Dentam	1638	39.00
Tshungthang	449	38.00
Dzongu	518	37.00
Kabi	601	32.00
Ranka	773	31.00
Mangan	622	20.00
Total	42,922	56.00

Source: State Rural Household Census, 2009.

APPENDIX - X

Drinking Water source

Name of the GPU	RMDD	Local Source
K. Mangnam	66.70	33.30
D. Narkhola	65.90	34.10
K. Labdang	72.50	27.50
Tashiding	79.80	20.20
A. Chongrang	78.60	21.40
Gerethang	62.80	37.20
Yuksam	76.00	24.00
T. Khachodpalri	83.20	16.80
Melli	79.70	20.30

Source: Field survey, 2010-2011.

APPENDIX - Y

Power Installed Capacities (in kW)

Power House	Installed Capacity at the end of the year (in kW)
Lower Lagyap (H)	12,000
Upper Rongnichu (H)	8,000
DPH Gangtok (H)	4,000
Mayongchu (H)	4,000
Rabomchu (H)	3,000
Rongnichu-II (H)	2,500
Jali Power House (H)	2,100
Kalez K.H.E.P (H)	2,000
DPH Ranipool (H)	1,000
Rimbi-II (H)	1,000
Rimbi- I (H)	600
Diesel (D)	500
Lachung (H)	200
Rothak (H)	200
Chaten (Lachen) (H)	100

Note: H: hydel; D: diesel

Source: Economic Survey, 2006-07.

APPENDIX - Z

Infrastructure score

Name of the GPU	X ₁	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇	X ₈	X ₉	X ₁₀	X ₁₁	Infrastructure score	Categories
K. Mangnam	-0.90	0.52	0.58	-1.08	-0.53	-1.11	-0.64	-1.16	-0.85	-0.99	-1.04	-0.65	Low
D. Narkhola	-1.25	-1.75	0.58	-0.92	-0.73	-0.67	0.41	-0.87	-0.85	-1.10	0.64	-0.59	Low
K. Labdang	-0.90	0.52	0.58	-0.92	-0.53	-0.67	0.67	-0.97	-0.85	-0.19	0.74	-0.23	Low
Tashiding	1.92	0.52	0.58	-0.11	0.66	0.51	0.41	2.01	1.07	0.81	1.09	0.86	High
A. Chongrang	0.16	-1.75	-2.32	-0.41	-0.53	-0.23	-0.64	0.22	-0.84	0.65	-1.37	-0.64	Low
Gerethang	-0.55	0.52	-0.72	-0.24	-0.33	-0.52	0.93	-0.47	1.07	-1.53	-1.44	-0.29	Low
Yuksam	0.51	0.52	0.58	0.78	2.45	1.98	1.46	0.22	1.07	0.29	0.41	0.93	High
T. Khachodpalri	0.51	0.52	-0.43	1.46	-0.33	1.09	-1.43	0.72	1.07	1.28	0.74	0.47	High
Melli	0.51	0.52	0.58	1.46	-0.13	-0.37	-1.16	0.32	-0.84	0.79	0.23	0.17	Moderate

Source: Calculated by author

Note: X₁ means Educational Institution, X₂ - Health Care Centre, X₃ - Household with Toilet, X₄ - Pucca Household, X₅ - Hotel & Guest House, X₆ - Passenger Vehicles, X₇ - Bridges & Foot Path, X₈ - Number of Shops, X₉ - Police Out Post, X₁₀ - Household with Drinking water, X₁₁ - Electrified Household.

APPENDIX - AA

Level of Development based on Composite Score

GPU Number (1)	Name of the GPU (2)	X ₁ (3)	X ₂ (4)	X ₃ (5)	X ₄ (6)	X ₅ (7)	X ₆ (8)	Z Score (9)	Composite Rank (10)	Level of Development (11)
1	Ship Gyer	-1.44	0.74	1.97	0.66	-1.38	-3.50	-0.49	148	Low
2	Chungthang	-1.31	0.30	3.07	-0.83	2.69	0.47	0.65	5	High
3	Lachung	-1.29	-0.55	3.80	-0.85	-0.86	1.85	0.04	78	Moderate
4	Lachen	-1.37	-0.72	3.37	0.26	1.35	1.16	0.48	19	High
5	Lum-Gor -Sangtok	-1.31	-0.28	1.00	-1.96	-0.52	-0.13	-0.51	149	Low
6	Sakyong Pentong	-1.47	-0.03	-0.65	0.77	-0.93	-0.22	-0.39	137	Low
7	Tingvong	-1.35	0.25	0.15	0.83	-0.91	-1.08	-0.17	107	Low
8	Lingthem Lingdem	-1.30	0.67	0.74	1.00	-0.34	0.04	0.13	64	Moderate
9	Posingdang Safo	-1.36	0.64	-1.00	0.69	-0.41	0.56	-0.24	114	Low
10	Barfok Lingdong	-1.20	0.11	0.2	1.06	-0.52	0.64	-0.06	92	Low
11	Hee Gyathang	-1.21	0.12	-0.53	0.87	-0.42	1.34	-0.19	110	Low
12	Men Rongong	-1.09	-0.33	-0.13	1.18	2.01	-1.17	0.27	40	High
13	Lingdok	-0.34	0.39	2.65	-0.21	-0.24	0.47	0.37	33	High
14	Rongong Tumlong	-0.87	0.12	0.17	-0.13	0.97	1.16	0.04	77	Moderate
15	Phensang	-0.90	0.32	0.25	-0.01	0.78	0.04	0.07	73	Moderate
16	Kabi Tingda	-0.89	-0.31	0.45	0.60	-0.01	0.90	-0.03	88	Low
17	Navey Shotak	-0.62	0.35	-1.05	-1.12	3.72	1.42	0.21	54	High
18	Ringmin Nampatam	0.03	0.08	0.72	-0.08	0.95	1.85	0.28	39	High
19	Sentam	-0.50	-0.07	0.02	0.18	1.64	1.42	0.21	56	High
20	Toong Naga	-1.01	-0.13	-0.31	0.22	-0.24	0.9	-0.25	115	Low
21	Tingchim Mangshila	-0.41	-0.20	0.06	1.22	0.17	-0.65	0.14	61	Moderate
22	Namok Sheyam	-0.81	-0.02	0.87	1.21	0.49	-1.00	0.29	38	High
23	Ramthang Tanyek	-1.08	0.03	0.33	1.15	-1.42	-0.50	-0.17	106	Low
24	Upper Fambong	1.50	0.25	-0.82	-1.26	0.90	0.21	0.10	67	Moderate
25	Lungchok Salyangdang	0.84	-0.22	-0.25	-0.50	-1.14	-1.86	-0.21	112	Low
26	Siktam Tikpur	-0.25	0.46	-0.55	-1.03	-0.53	-0.39	-0.32	129	Low
27	Lower Fambong	2.20	0.65	-1.38	-0.90	-0.46	0.47	0.02	83	Moderate
28	Burikhop	-0.81	-1.88	0.96	-0.83	-0.88	-1.00	-0.57	151	Low
29	Okherey	0.13	-0.81	-0.76	-0.79	-1.32	0.56	-0.59	152	Low
30	Ribdi Bhareng	0.39	0.02	-1.34	2.25	-1.50	0.56	-0.03	89	Low

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
31	Barnyak Barthang	0.36	0.00	-0.73	-1.16	-0.63	0.21	-0.36	134	Low
32	Maneybung Sopakha	-0.17	1.01	-0.91	-0.89	-0.72	-0.39	-0.28	125	Low
33	Sangkhu Radukhandu	0.04	-0.03	0.01	-0.90	-0.67	-0.22	-0.26	118	Low
34	Bongten Sapong	-0.17	-0.04	-0.07	-0.93	-0.44	-0.31	-0.27	121	Low
35	Karmatar Gyaten	-0.64	1.35	-0.44	-1.13	-1.14	-0.31	-0.33	131	Low
36	Dentam	1.36	-0.85	-0.86	-1.23	0.01	0.04	-0.26	120	Low
37	Hee	0.43	-0.57	-1.18	-1.01	-0.37	-0.22	-0.45	143	Low
38	Pecherek Martam	0.13	0.29	-1.23	-0.97	-1.11	-0.39	-0.48	145	Low
39	Darap	-0.56	-0.31	-0.72	-1.26	0.44	0.21	-0.40	140	Low
40	Yangten	-0.36	0.06	-0.57	-1.40	-0.06	0.04	-0.39	138	Low
41	Singyang Chumbung	-0.47	-1.16	-0.32	-1.10	1.63	0.38	-0.24	113	Low
42	Lingchom Tikjya	0.14	-0.08	0.17	-1.29	-1.01	-0.39	-0.35	133	Low
43	Yangthang	0.79	-1.08	-0.93	-1.12	-0.06	-0.13	-0.40	139	Low
44	Sardung Lungzik	0.13	-2.20	-1.19	-0.67	-0.43	0.13	-0.72	158	Low
45	Geyzing Omgchung	0.59	-0.21	1.31	-1.46	1.41	0.73	0.27	41	High
46	Samdong	-0.27	0.57	0.12	0.02	-0.75	0.04	-0.05	91	Low
47	Tadong Rinchenpong	0.45	-0.61	-1.36	-0.79	0.63	0.30	-0.28	126	Low
48	Takothang	-0.04	-1.48	-1.2	-1.07	-0.30	-0.22	-0.68	157	Low
49	Deythang	-0.39	0.73	0.12	-1.01	-0.98	-1.52	-0.25	117	Low
50	Sangadorji	-0.49	-1.31	-1.00	-1.09	-0.86	-0.39	-0.79	159	Low
51	Chingthang	-0.13	0.09	-0.88	-0.83	-0.69	-0.83	-0.41	141	Low
52	Khaniserbong Suntoley	-0.41	-1.52	-0.66	-0.32	-0.91	-0.83	-0.64	156	Low
53	Timburbong	1.80	1.11	-1.78	-1.02	-0.66	0.73	-0.09	96	Low
54	Malbasey	0.43	1.13	-0.68	-1.59	-0.24	0.21	-0.16	105	Low
55	Soreng	1.05	0.61	-0.43	-1.13	1.82	1.25	0.32	34	High
56	Tharpu	5.09	2.99	-1.72	-1.01	-0.06	0.82	0.88	2	High
57	Chumbong	-0.15	0.15	0.44	-1.15	-0.77	-0.65	-0.25	116	Low
58	Zoom	0.45	0.35	-0.83	-1.04	0.03	0.64	-0.17	108	Low
59	Chakung	-0.21	-1.80	-1.38	-0.93	-0.43	0.04	-0.79	160	Low
60	Chota Samdong Arubotey	-0.70	-0.47	-0.34	-1.12	-1.06	0.04	-0.61	154	Low
61	Samsing Gelling	0.37	0.53	-0.19	-1.21	-0.41	0.21	-0.15	103	Low
62	Mabong Segeng	-0.21	-1.41	-0.51	-0.91	-0.55	-0.31	-0.60	153	Low
63	Suldung Kamling	-0.13	0.51	-1.34	-0.96	-0.15	0.64	-0.34	132	Low
64	Dodak	3.23	2.99	-2.1	-1.01	-0.04	0.30	0.51	14	High
65	Mandogaon Berbotey	1.05	0.24	-1.71	-0.22	-0.08	0.30	-0.12	100	Low

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
66	Singling	0.32	-0.41	-1.21	-0.59	0.95	0.47	-0.16	104	Low
67	Rumbuk	-0.53	1.03	-0.25	-1.31	-0.84	0.13	-0.32	128	Low
68	Dhupidara-Narkhola	-1.15	0.30	0.42	-1.16	-1.34	-2.64	-0.49	146	Low
69	Kongri Labdang	-1.15	-1.03	-0.55	-0.75	-1.34	-1.17	-0.80	161	Low
70	Thingle Khachodpalri	-0.67	-0.71	-0.37	-0.88	-1.09	0.21	-0.62	155	Low
71	Yuksam	-0.62	-0.08	-0.53	-0.90	0.92	-0.05	-0.20	111	Low
72	Melli	-0.76	-0.90	0.44	-0.98	-0.38	-0.83	-0.43	142	Low
73	Tashiding	-0.76	1.65	0.00	-0.82	-0.21	-0.31	-0.02	87	Low
74	Karzi Mangnam	-1.39	-5.13	-1.78	-1.13	-1.52	-4.63	-1.83	163	Low
75	Arithang Chongrang	-0.38	-2.48	-0.77	-0.71	-0.66	-0.13	-0.83	162	Low
76	Gerethang	-0.19	-0.51	-0.23	-0.92	-0.42	-0.74	-0.38	136	Low
77	Sadam Suntoley	-0.06	1.68	0.98	-1.01	-0.86	-1.17	0.12	65	Moderate
78	Mellidara Paiyong	2.54	0.94	-0.19	1.01	1.60	1.25	0.99	1	High
79	Turuk Ramabung	-0.02	-1.43	-0.26	0.56	-0.52	-0.91	-0.28	123	Low
80	Lungchok Kamarey	0.05	-1.29	-0.19	-0.52	-1.17	-1.69	-0.52	150	Low
81	Sumbuk Kartikey	0.43	0.34	0.65	1.07	0.05	0.47	0.42	23	High
82	Mikhola Kitam	0.00	1.35	0.84	0.13	0.65	-0.05	0.49	18	High
83	Assangthang	0.28	-0.25	0.29	1.18	2.41	0.30	0.65	6	High
84	Rong-Bul	-0.73	-0.70	0.23	1.03	-0.24	-0.31	-0.07	95	Low
85	Sorok-Shyampani	0.22	0.64	-1.01	1.83	0.80	-0.22	0.41	25	High
86	Maniram Singithang	-0.6	1.47	1.17	0.04	-0.83	-0.48	0.21	57	High
87	Damthang	-0.54	0.75	0.26	1.02	-0.88	0.90	0.10	66	Moderate
88	Rateypani	-0.35	0.30	0.18	1.06	-1.09	-0.83	0.02	84	Moderate
89	Tangzi Bikmat	-0.46	-0.55	-0.10	1.26	-0.03	0.04	0.02	82	Moderate
90	Nagi Pamphok	-0.14	0.59	-0.95	0.28	0.16	-0.05	-0.01	86	Low
91	Maneydara	0.82	-0.78	-1.09	1.49	1.02	0.99	0.24	46	High
92	Tingrithang	-0.77	-1.83	-0.11	0.91	-1.04	-1.08	-0.47	144	Low
93	Tinik Chisopani	0.58	-1.15	0.22	0.66	-0.70	-1.08	-0.07	93	Low
94	Salghari	-0.01	-0.24	2.57	0.78	-0.65	0.30	0.41	27	High
95	Poklok Denchung	0.09	1.38	0.99	0.57	-0.77	-0.22	0.38	31	High
96	Mamley Kamrang	-0.27	1.45	0.54	1.56	-0.29	0.47	0.50	16	High
97	Turung Mamring	0.21	-1.58	-1.24	1.30	0.23	0.73	-0.18	109	Low
98	Ravang Sangmoo	-0.48	-0.86	0.50	1.29	-0.10	0.13	0.06	76	Moderate
99	Legship	0.99	-1.92	-0.06	0.89	1.58	-0.22	0.25	45	High
100	Borong Phamthang	-0.90	0.03	0.93	-0.92	-0.81	-0.05	-0.28	124	Low

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
101	Ralong Namlung	-0.96	-1.20	0.76	1.45	1.29	-1.43	0.22	53	High
102	Kewzing Bakhim	-0.36	1.05	0.85	1.02	1.37	0.21	0.66	4	High
103	Barfung Zarung	-0.42	-0.23	1.67	1.30	0.03	-2.29	0.39	28	High
104	Tiniktam Rayong	-0.25	0.85	0.37	1.58	0.89	-1.17	0.57	12	High
105	Lamting Tingmo	-0.64	-0.10	0.99	-1.05	-1.16	-1.43	-0.33	130	Low
106	Sanganath	-1.02	-2.04	0.15	2.03	1.24	-2.04	0.06	75	Moderate
107	Wak Omchu	-0.58	0.83	-0.10	1.31	-0.96	0.30	0.08	70	Moderate
108	Ben Namphrik	-0.61	0.57	0.83	-0.79	0.44	0.13	0.07	72	Moderate
109	Namphing	1.01	0.64	-0.15	0.57	0.20	0.13	0.38	30	High
110	Chuba Phong	0.15	1.99	-0.42	0.02	-0.92	0.99	0.14	62	Moderate
111	Barnyak Tokal	-0.26	-1.27	0.40	1.37	-0.06	0.64	0.03	79	Moderate
112	Tarku	0.85	-0.06	-0.46	0.36	-0.24	0.64	0.08	71	Moderate
113	Temi	3.25	-0.35	-0.60	0.35	0.32	1.51	0.50	17	High
114	Chuba	0.88	0.87	-0.41	1.57	-0.44	0.13	0.41	26	High
115	Rameng Nizrameng	-0.85	-1.79	-0.32	1.63	-0.22	-1.69	-0.26	119	Low
116	Yangang Rangang	-0.06	-0.01	0.33	0.72	-0.61	0.21	0.06	74	Moderate
117	Sripatam Gagyong	0.41	1.19	0.41	1.51	0.02	-0.65	0.59	11	High
118	Niya-Mangzing	0.31	1.66	-0.07	1.46	-0.85	-0.22	0.42	24	High
119	Lingi	-0.67	-1.52	-0.63	0.85	-0.96	-0.39	-0.49	147	Low
120	Paiyong	-0.59	-0.84	-0.27	1.27	-1.32	-0.22	-0.29	127	Low
121	Lingmo-Kolthang	-0.39	0.52	0.33	1.41	-0.75	0.13	0.19	59	Moderate
122	Central Pendam	1.81	0.45	-0.99	-0.33	0.62	0.90	0.26	43	High
123	East Pendam	-0.07	-0.53	-0.13	1.03	-0.14	0.13	0.03	80	Moderate
124	West Pendam	2.53	0.34	-0.53	-1.11	1.55	1.34	0.46	20	High
125	Sumin Lingzey	0.16	-0.30	-0.93	0.66	-0.30	1.25	-0.12	99	Low
126	Namli	0.08	0.12	0.44	-0.32	0.86	0.38	0.20	58	Moderate
127	Samlik Marchak	0.38	0.39	-0.11	-0.49	1.26	0.73	0.24	47	High
128	Tathangchen Syari	2.38	0.60	-0.69	-1.52	2.81	1.85	0.60	10	High
129	Naitam Nandok	1.11	0.34	-0.56	-0.85	0.50	0.99	0.09	69	Moderate
130	Assam Lingzey	0.10	0.40	-0.50	-0.11	-0.29	0.38	-0.07	94	Low
131	Gnathang	2.05	-0.11	3.89	-2.04	-1.19	2.20	0.44	22	High
132	Byeng-Phegyong	-0.02	-0.01	-0.38	0.14	0.81	1.08	0.09	68	Moderate
133	Simik Lingzey	-0.86	-0.05	-0.04	0.71	0.03	-0.39	-0.03	90	Low
134	Martam Nazitam	-0.05	-0.14	-0.33	0.24	-0.29	0.64	-0.09	97	Low
135	Sirwani Tshalumthang	0.96	0.12	-0.28	-1.21	1.83	0.56	0.24	48	High

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
136	Khamdong	0.19	0.07	0.41	0.17	2.88	0.99	0.62	7	High
137	Singbel	0.58	-0.27	-0.99	-0.26	-0.70	0.38	-0.28	122	Low
138	Thekabong Parkha	0.42	0.22	-0.62	1.10	0.27	0.64	0.23	51	High
139	Kartok Namcheybong	-0.45	0.46	2.23	-0.27	1.68	-0.05	0.61	9	High
140	Amba	-0.15	-0.04	1.08	1.25	-0.86	-0.13	0.21	55	High
141	Changey Senti	1.31	0.33	0.35	0.26	0.89	1.68	0.52	13	High
142	Aho Yangtam	1.66	0.58	-0.39	-0.42	0.34	1.08	0.30	36	High
143	Latuk-Chuchenpheri	-1.07	-0.19	0.15	1.45	-1.04	-0.05	-0.12	98	Low
144	Riwa Machong	-0.22	0.18	0.10	0.93	0.12	-0.22	0.19	60	Moderate
145	Pacheykhani	0.42	0.13	0.55	0.06	-0.37	0.21	0.13	63	Moderate
146	Rakdong Tintek	-0.27	0.04	1.12	1.01	0.44	0.64	0.39	29	High
147	Samdong Kambel	0.24	1.04	1.07	0.17	1.18	0.82	0.62	8	High
148	Tumin	-0.22	-0.51	-0.81	-0.36	-0.34	-0.39	-0.37	135	Low
149	Ranka	0.87	0.24	-0.12	-0.49	1.00	0.99	0.25	44	High
150	Rey Mendu	-0.33	0.44	0.23	-0.26	0.01	0.13	0.02	85	Moderate
151	Rawtey Rumtek	1.13	2.65	0.24	-0.93	1.95	1.77	0.84	3	High
152	Luing Parbing	0.44	0.23	-0.22	0.87	0.09	1.16	0.23	50	High
153	Lingtam Phadamchen	-0.84	-0.01	1.01	1.08	1.75	-0.65	0.50	15	High
154	Chujachen	-0.03	0.17	1.61	0.25	0.69	-0.83	0.45	21	High
155	Rolep Lamaten	-1.13	0.26	0.33	0.34	1.55	-2.81	0.23	52	High
156	Premlakha Subaneydara	-1.01	-0.27	-0.38	0.61	0.17	-0.48	-0.15	102	Low
157	Dolepchen	0.57	0.78	0.87	-0.12	-0.34	0.04	0.29	37	High
158	Regoh	-1.19	-0.33	-0.05	1.44	-0.70	-1.43	-0.14	101	Low
159	Aritar	0.57	0.66	0.10	-0.10	0.55	-1.86	0.30	35	High
160	Linkey Tareythang	0.01	0.29	0.92	1.02	-0.63	0.04	0.27	42	High
161	Taza	-0.32	-0.10	0.38	0.82	-0.66	0.04	0.02	81	Moderate
162	Sudunglakha	0.06	0.43	0.78	0.66	-0.52	-0.83	0.23	49	High
163	Rhenock Tarpin	2.06	0.51	0.25	-1.12	0.57	0.90	0.38	32	High

Source: Calculated by author

Note: X_1 - Density of population/ha, X_2 - Total literacy (%), X_3 - Working population (%), X_4 - Percentage of primary worker to total worker, X_5 - Pucca household (%), X_6 - APL household (%).

APPENDIX - BB

Levels of Development based on Composite Score, Yuksam Development Block

GPU No.	Name of the GPU	X ₁	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇	X ₈	X ₉	X ₁₀	X ₁₁	X ₁₂	X ₁₃	X ₁₄	X ₁₅	X ₁₆	X ₁₇	X ₁₈	X ₁₉	X ₂₀	X ₂₁	Z Score	Composite Rank	Level of Development
1	K. Mangnam	-1.56	0.61	-0.89	-0.86	-1.46	1.47	-0.43	-0.04	-1.21	-0.66	-0.90	0.52	0.58	-1.08	-0.53	-1.11	-0.64	-1.16	-0.85	-0.99	-1.04	-0.58	9	Low
2	D. Narkhola	-0.94	1.65	-0.99	-0.86	0.24	-0.23	-0.43	-0.97	-0.31	-0.66	-1.25	-1.75	0.58	-0.92	-0.73	-0.67	0.41	-0.87	-0.85	-1.10	0.64	-0.47	8	Low
3	K. Labdang	-0.94	-0.53	-1.15	0.81	0.66	-0.66	-0.43	-1.32	0.82	-0.66	-0.90	0.52	0.58	-0.92	-0.53	-0.67	0.67	-0.97	-0.85	-0.19	0.74	-0.28	7	Low
4	Tashiding	0.06	-0.47	0.94	0.98	1.51	-1.51	-0.43	-1.12	1.41	-0.66	1.92	0.52	0.58	-0.11	0.66	0.51	0.41	2.01	1.07	0.81	1.09	0.48	2	High
5	A. Chongrang	1.06	-0.68	-0.57	0.31	-0.18	0.19	0.46	0.26	1.24	1.34	0.16	-1.75	-2.32	-0.41	-0.53	-0.23	-0.64	0.22	-0.84	0.65	-1.37	-0.17	6	Low
6	Gerethang	1.56	-1.25	0.72	-0.78	-1.04	1.04	2.55	0.88	0.03	1.34	-0.55	0.52	-0.72	-0.24	-0.33	-0.52	0.93	-0.47	1.07	-1.53	-1.44	0.08	5	Moderate
7	Yuksam	0.44	-0.65	1.61	-1.20	0.66	-0.66	-0.43	0.20	-0.35	1.34	0.51	0.52	0.58	0.78	2.45	1.98	1.46	0.22	1.07	0.29	0.41	0.53	1	High
8	T. Khachodpalri	0.31	-0.05	0.67	1.65	-1.04	1.04	-0.43	1.74	-1.44	-0.66	0.51	0.52	-0.43	1.46	-0.33	1.09	-1.43	0.72	1.07	1.28	0.74	0.33	3	High
9	Melli	0.06	1.38	-0.32	-0.02	0.66	-0.66	-0.43	0.38	-0.19	-0.66	0.51	0.52	0.58	1.46	-0.13	-0.37	-1.16	0.32	-0.84	0.79	0.23	0.10	4	Moderate

Source: Calculated by author

Indicators Description

X ₁	Density of population/ha
X ₂	Sex ratio/1000 male
X ₃	Total literacy (%)
X ₄	Female literacy (%)
X ₅	Working population (%)
X ₆	Dependency ratio (%)
X ₇	Irrigated area (%)
X ₈	Percentage of primary worker to total worker
X ₉	Per Capita Income (Rs)
X ₁₀	Number of banking facilities
X ₁₁	Number of educational institution

Indicators Description

X ₁₂	Number of health care unit
X ₁₃	Percentage of household with toilet
X ₁₄	Pucca household (%)
X ₁₅	Number of hotels and guest house
X ₁₆	Number of passenger vehicles (taxi)
X ₁₇	Number of bridges and footpath
X ₁₈	Number of shops
X ₁₉	Number of police outpost
X ₂₀	Percentage of household with drinking water
X ₂₁	Percentage of household with electricity

APPENDIX - CC

Percentage Change in Level of Literates

Name of the GPU	Pry*	Pry**	(% C)	Sec*	Sec**	(% C)	S.Sec*	S.Sec**	(% C)	Gr*	Gr**	(% C)	P.G & Other*	P.G & Other**	(% C)
K. Mangnam	46.70	38.70	8.00	8.10	16.30	-8.20	0.40	1.40	-1.00	0.20	0.70	-0.50	0.00	0.00	0.00
D. Narkhola	43.00	38.20	4.80	11.40	22.00	-10.60	0.40	1.20	-0.80	0.30	0.40	-0.10	0.00	0.00	0.00
K. Labdang	43.00	33.70	9.30	11.00	27.40	-16.40	0.40	2.40	-2.00	0.00	1.70	-1.70	0.00	0.00	0.00
Tashiding	37.50	29.20	8.30	19.30	25.50	-6.20	3.70	7.70	-4.00	1.70	4.40	-2.70	0.50	1.40	-0.90
A. Chongrang	36.90	33.80	3.10	16.50	26.10	-9.60	2.00	4.30	-2.30	1.00	3.00	-2.00	0.40	1.00	-0.60
Gerethang	42.00	37.90	4.10	16.80	22.50	-5.70	2.40	4.00	-1.60	0.50	2.80	-2.30	0.20	0.80	-0.60
Yuksam	42.60	31.50	11.10	18.00	27.10	-9.10	2.70	2.90	-0.20	1.80	1.90	-0.10	0.20	0.50	-0.30
T. Khachodpalri	40.20	36.00	4.20	17.60	20.70	-3.10	2.10	2.65	-0.55	1.10	1.70	-0.60	0.03	0.50	-0.47
Melli	40.10	26.90	13.20	14.80	29.00	-14.20	2.10	3.00	-0.90	0.70	1.20	-0.50	0.04	0.90	-0.86
Total	40.50	60.70	-20.20	16.40	25.00	-8.60	2.30	3.50	-1.20	1.00	2.20	-1.20	0.20	0.70	-0.50

Source: DESME, 2008 and Field Survey, 2010-2011.

Note: Pry - primary literates, Sec - secondary literates, S.Sec - senior secondary literates, Gr - graduate, P.G & Other - post graduate and other literates. (*) represent literates of 2005, (**) literates of 2011 & (%C) percentage change in level of literates.

APPENDIX - DD

Number of Benefited and Non Benefited Household

Name of the GPU	LBS	Biogas	LPG	V.P	C.P	Syntax	W. H.T	P.P	Terracing	NBH (%)
K.Mangnam	0	0	5	1	3	9	0	0	0	8.30
D.Narkhola	0	0	14	1	4	0	0	0	0	0.00
K.Labdang	1	0	15	0	3	1	1	0	0	1.90
Tashiding	3	1	51	52	43	22	2	0	0	7.30
A.Chongrang	2	2	25	29	17	6	1	0	0	7.00
Gerethang	7	0	20	3	9	2	1	1	0	7.00
Yuksam	5	0	40	40	60	1	0	1	0	7.30
T.Khachodpalri	0	0	18	17	2	0	0	0	0	4.20
Melli	0	0	43	1	11	3	0	0	1	6.50
Total	18	3	231	144	152	44	5	2	1	6.00

Source: Field Survey, 2010-2011.

Note: LBS - land bank scheme, V.P - vermin compose pit, C.P - compose pit, W.H.T - water harvesting tank, P.Pipe - poly pipe, NBH - non benefited household.

APPENDIX - EE

HOUSEHOLD SCHEDULE SOCIO-ECONOMIC SURVEY

Schedule No:

Date:

General Particulars

1. Name of the GPU/ Revenue block:
2. Village/Ward name:
3. District:
4. Distance from the district headquarters:
5. Name of head of the family:
 - i. Age:
 - ii. Sex:
 - iii. Tribe/ Caste/ OBC/ MBC:
 - iv. Religion:
 - v. Birth Place:

Population aspect

Sl. No.	Name of family member	Relation with family head	Age	Sex		Marital Status	Education Level	Occupation			
				M	F			Stu	Pry	Sec	Ter
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											

Note: Marital Status: Below Marriageable Age (Male > 21 yrs & Female > 18 yrs-1, Married – 2, Unmarried – 3, Widow/ Widower – 4.

Educational Level: Child below 7 years – 1, Illiterate 2, Literate – 3, Primary – 4, Secondary 5, Higher Secondary – 6, Graduate – 7, Others- 8.

Economic aspect

- The main occupation of the family:
- Occupation changed if any, within last 5 years:

Occupation	M (in number)	F (in number)
Person engaged in cultivation		
Person engaged in animal rearing		
Person engaged in small scale industry		
Person engaged in Govt. services		
Person engaged in other works		

(Others worker includes the person engaged as monk, prest and other social service)

House Type

a. Type of house - Kutcha / Semi- Pucca / Pucca	
b. Roof: Thatched / Tinned / RCC (reinforce, cement, concrete)	
c. Wall: Bamboo/ Wood / Earth plastered / Brick / Concrete (sand, cement, stone)	
d. Number of Rooms	
e. Whitewash: Present / Absent	
f. Provision of drinking water, (RMDD/Local source)	

Agricultural Scenario

- Do you have any land (yes / no)

2. If yes acre: decimal:

3. Land use pattern

Landuse	Area (in Acre)
i. Total area:	
ii. Built up area:	
iii. Cultivated area:	
Irrigated (<i>Khet</i>)	
Unirrigated (<i>Sukha bari</i>)	
Culturable waste (<i>Banjo</i>)	
Cardamom (<i>Alainchibari</i>)	
Forest land	

4. Type of agriculture practiced (wet/dry cultivation):

5. Cropping pattern:

i. Name of the crops grown:

ii. Name of the cash crops:

iii. Name of the horticulture product

Fruits:

Vegetables:

6. Weather use irrigation water (yes/no):

7. Whether self sufficient in food product (yes/no):

8. Any Marketable surplus (yes/no):

9. Whether use own / hired bullock to plough:

10. Live stock possessed name and number

Livestock	Number
Cow/Bull	
Poultry	
Goat	
Sheep	
Pig	
Yak	

Income and Expenditure

Household Income

Sl. No	Income Source	Monthly (in Rs.)	Yearly (in Rs.)
1	Service		
2	Agriculture		
3	Trade and Business		
4	Pension		
5	Livestock		
6	Dairy product		
7	Horticulture		
8	Rent		
9	Private job		
10	Agriculture Labour (<i>Khetala</i>)		
11	Wage employment (MG-NREGA)		
12	Others		

Household Expenditure

Sl. No	Expenditure	Monthly (in Rs.)	Yearly (in Rs.)
1	Food		
2	Fuel		
3	Cloth		
4	Health		
5	Education		
6	Livestock		
7	Religious Performance		
8	Agricultural equipments		
9	Household equipments		
10	Others		

1. Monthly income / Yearly income:
2. Monthly expenditure / Yearly expenditure:

Household Credit

Credit Institutions	Total Amount	Reasons
Bank		
Relative		
SGHs		
Neighbour		
Shops		
Other		

Impact of Rural Development Schemes

Name and number of rural development scheme received by the household

Sl. No	Name of the Schemes	Received Year	Past Living Status	Present Living Status	Perceived Impact
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Past and Present Living Status: critical - 1, good - 2, kutcha house - 3, no sanitation facilities - 4, and joint family - 5.

Impact: critical - 1, better than past - 2, significant improvement - 3, as same - 4.

Problems of the Household

Sl. No	Problems	Causes	Solution
1	Electricity		
2	Drinking water		
3	Kutcha house		
4	Sanitation		
5	Expenditure is more than Income		
6	Multiple		
7	None		

Personal observation: