GUMA GEWOG NINTH PLAN (2002-2007)



PUNAKHA DZONGKHAG ROYAL GOVERNMENT OF BHUTAN

TABLE OF CONTENT

1	CURRENT SITUATION	1
2	GEWOG PLAN OUTLAY	2
3	GEWOG DEVELOPMENT PROGRAMS	2
	Agriculture Programs	2
	Livestock Programs	2
	Forestry Programs	4
	Education Programs	5
	Health Programs	5
	Suspension Bridge and Mule Track Programs	5
	GEWOG ADMINISTRATION PROGRAMS	6
4	BUDGET ESTIMATE	6
5	PLAN IMPLEMENTATION, MONITORING AND EVALUA	ATION10
	PLAN IMPLEMENTATION	10
	Annual and Quarterly Plans	10
	Monitoring and Evaluation	
	Monitoring	11
	Evaluation	11

1 CURRENT SITUATION

Guma Gewog is located on the right bank of Puna Tsangchhu. The gewog has 310 households. The Gewog has fairly good access to infrastructure and services.

Settlements are quite dense and the land in the gewog is very fertile with altitude ranging from 1220-2800 m above sea level. Summers are hot with temperature reaching over 30 degree centigrade. Winters are dry and windy with occasional frost in the morning. Mean annual rainfall ranges from 500 mm-1500 mm.

Over 620 acres of land are under wetland cultivation with about 115 acres under dry land. All varieties of paddy, wheat and maize are grown in the gewog. Orange and mangoes are grown on limited scale as cash crops. Over the past few years, vegetable promotion has increased significantly as an important source of cash income.

The Gewog, being the seat of the Dzongkhag headquarters, has good number of facilities and infrastructure like hospital, one Higher Secondary School, one Junior High School, one Primary School, township and road.

Land data of Guma Gewog of the year 2000

Sl.	Chiwog	Wet-	Dry-	Vegetable	Tsheri	Sog-	Pang-	Tsamdro	Total
#		land	land	garden		shing	shing		
1	Khuru	83.12	3.66	-	-	66.66	4.87	599.00	757.31
2	Gumakha	46.56	2.00	-	-	-	9.96	-	58.52
3	Wolajangsa	113.06	4.07	-	-	-	43.45	-	160.58
4	Zamdongkha	193.11	32.84	-	-	13.82	56.52	1.40	297.69
5	Dochokha	89.45	46.35	-	-	66.00	19.93	509.99	731.72
6	Lakhu	49.28	6.22	-	-	18.00	1.17	500.26	574.93
7	Tharabarched	-	-	-	-	-	-	-	-
8	Pakcheykha	45.90	20.50	-	-	10.00	15.40	50.60	142.40
	Total	620.48	115.64	-	-	173.48	151.30	1661.25	2815.22

Cattle Population Data of Guma Gewog- 2001

Sl.No.	Name of Chiwog	No. of cattle
1.	Khuru	160
2	Gumakha	124
3	Wolajangsa	120
4	Zamdongkha	161
5	Dochokha	140
6	Lakhu	117
7	Tharibarched}	-
8	Pacheykha}	220
	Total	998

2 GEWOG PLAN OUTLAY

Nu. in million

Sl.#	Sectors	Rec.	Сар.	Tot.	Remarks
1	Agriculture Program	0.000	4.415	4.415	
2	Livestock Program	0.000	0.319	0.319	
3	Forestry Program	0.000	0.197	0.197	
4	Education Program	0.000	1.720	1.720	
5	Health Program	0.000	1.245	1.245	
6	Suspension Bridge & Mule Track Program	0.000	0.007	0.007	
7	Gewog Administration Program	0.475	0.865	1.340	
	Gewog Grand Total	0.475	8.768	9.243	

3 GEWOG DEVELOPMENT PROGRAMS

Agriculture Programs

a) Cereal and Cash Crops Development Activities

The focus of agriculture programmes during the Ninth plan shall be on paddy, wheat, mustard and maize production improvement through farmers raining, promotion, field days and trials. Further more, technical support in terms of training and farm trials shall be organized for vegetable and cash crop development.

b) Construction of Farm Road

To boost farm production and to extend access to market for the people of Yongu, Logodama, Tharabarched, pacheykha, Lunakha, Nyabji and Phulisu, about one kilometer of farm road is proposed from Darchapang to Yongu during the Ninth Plan.

c) Renovation of Irrigation Channel

Renovation of about 17 Km of existing irrigation channel is proposed for Khuru Gumap, Lakhu, Dochoricha and Dakarpo villages during the Ninth plan. The channels benefit a total of about 90 households and 225 acres of wetland.

d) Farm Machineries

Farmers from Guma Gewog have requested for supply of 25 power tillers, 20 rice hullers and three Corn-flake machines during the Ninth Plan.

Livestock Programs

a) Cattle Breed Improvement Program

Supply of one Mithun bulls is proposed for the remote villages under the gewog to improve local cattle breed. For villages near road head, A.I. of jersey and Brown Swiss breed shall be provided.

b) Horse Development Program

Since horses are still the main means of transportation, people have requested for one Boeta and four donkeys for breeding. Contract horse keeping allowances and incentives for progenies born will be provided.

c) Piggery Farm

Four farmers from Gumakha, Wolajangsa, Zamdong and Khuru villages wish to establish piggery farm to enhance their income. Therefore, animal husbandry sector of the Dzongkhag will supply improved breed piglets from the parent farm. The six interested farmers will be provided piggery management training and study tours during the Ninth Plan to enhance their capacity in piggery farm.

Sl.No.	Farmers Name	Village	No. of piglets
1	Rinzin	Gumakha	5 Nos.
2	Pake	Wolajangsa	5 Nos.
3	Pasang	Zamdong	5 Nos.
4	Pasang	Khuru (Bemsisi)	5 Nos.
	Total		20 Nos.

d) Poultry Farm

Nine farmers from Tharabarchey, Wolajangsa, Zamdong, Docho Ritsa, Pachekha and Lakhu villages wish to establish poultry farm to enhance their income. Therefore, animal husbandry sector of the Dzongkhag will supply improved breed pullets from the parent farm. The eleven interested farmers will be provided poultry management training and study tours during the Ninth Plan to enhance their capacity in poultry farm.

Sl. No. Farmers Name		Village	No. of pullets
1	Namgay Wangdi	Tharabarchey	
2	Gomchen	Wolajangsa	
3	Tshewang Zam	Docho Ritsa	
4	Gembo	Pacheykha	
5	Phub Gyeltshen	Zamdong	
6	Damcho Zam	Lakhu	
7	Dophu	-Do-	
8	Khando Wangmo	-Do-	
9	Namgay Wangdi	-Do-	
	Total	150 Nos.	

e) Feed and Fodder Development Program

This gewog has very limited dry land, sogshing and pangshing. It has about 1661 acres of tsamdro. To supplement fodder from grasses, farmers will be encouraged to plant fodder trees, develop pasture land and sow oat seeds. The requirement is projected in the table given below.

Sl. No.	Name	Village
1.	Kencho Pem	Yongu
2.	Tshering Dem	Logodama

f) Animal Health Program

Vaccination and de-worming against major epidemic livestock diseases shall continue to be provided and eight Village Animal Health Workers (VAHWs) shall be given training in simple animal health management.

g) Extension Support Program

People of this gewog have demanded establishment of a cooperative fro milk, five milk churners and four cattle crush. The interested farmers in establishing enterprises such as dairy, piggery and poultry will be given short duration training. Interested progressive farmers short-listed will also be taken on in-country study tours to other Dzongkhags to meet farmers with successful ventures and similar interests and initiatives generating their household income.

Support in terms of equipment, information, training and quality control will be provided. Support for group formation and establishment of cooperatives of producer groups will also be provided. Effective processing tools and training will also be provided.

Forestry Programs

a) Private Forest

With increase in population, the pressure on forest for timber, fuel wood and other forest products is increasing. Therefore, the objective of the program is to encourage rural people to plant trees in their private land to meet their construction timber, fuel wood and small timber requirement and also to generate cash income in the long run.

b) Community Forestry

Community forestry shall be established in four suitable locations in the gewog during the Ninth Plan. This shall be so done by handing over patches of government reserve forest to communities with an objective of involving people in the use and management of wood and non-wood forest resources on sustainable basis.

c) Farmers Training

The aim of the program is to educate and cerate awareness on the importance of forest and the surrounding environment and also to encourage peoples' participation in forest management. In the Ninth plan farmers training in the field of tree seedling raising (nursery establishment), community forest management, private forest management, forest fire prevention and suppression, environment awareness and preparation of management plan for community forestry and private forestry will be conducted.

Education Programs

a) Lakhu and Phulisu new Community Schools

A new Community School is proposed at Lakhu for 141 households from Guma and Chhubu Gewogs during the Ninth Plan. The proposal was submitted since the 8th Plan. Children from Phulisu, Pacheylha and Nabji villages have to travel long distance to Logodama Primary School. To reduce the difficulties of the children and to expand education coverage, another Community School is proposed at Phulisu during the Ninth Plan.

The respective communities shall contribute labour and local materials while government assistance would be necessary for roofing and purchase of other hardware materials.

Health Programs

a) Out Reach Clinic (ORC) Construction

People from Phulisu, Pachekha and Nyabji have to walk about three hours to Punakha Hospital. Therefore, construction of one Out Reach Clinic is proposed at Phulisu during the Ninth Plan for the above communities.

b) Health Promotion Activities

In order to promote health and hygiene of the people, construction of latrines, footpath soling, garbage pits, separate animal sheds from houses and drainages around houses shall be carried out during the Ninth Plan.

c) Rural Water Supply Scheme

The three villages of Pacheykha, Tharabarchey and Changyul do not have proper drinking water supply. Therefore, during the Ninth Plan, three new water supply schemes are proposed for the above villages.

d) Rehabilitation of RWSS

The rural water supply schemes of Jangsa, Wolakha, Thara, Dochukha, Reetsa and Tharabarchey are in dilapidated condition and therefore, rehabilitation of the schemes are proposed during the Ninth Plan.

Suspension Bridge and Mule Track Programs

a) Mule Tracks

Since Bjapchukarmo is a nunnery centre and people have to travel quite frequently, five kilometer of mule track from Silipang to Bjapchukarmo is proposed for improvement during the Ninth Plan to make it more users friendly.

Gewog Administration Programs

a) Strengthening of Gup's Office

Since Guma Gewog does not have a proper office for their Gup, the people have proposed to construct Gup's Office during the Ninth Plan on a priority basis.

4 Budget Estimate

Nu. in million

Sl.	Activities	Unit	Toward	Budget			Remarks
S1. #	Activities	Unit	Target	Rec.	Cap.	Kemarks	
1	Cuan Improvement Ducanom	 		Rec.	Сар.	Total	
A	Paddy Improvement Activities:						
	Farmers Training	No.	200	0.000	0.020	0.020	
a		+					1000 1 ft:1:
b	Promotion/Demonstration	Kg.	2250	0.000	0.051	0.051	1000 kg fertilizer.
c	Field Day	No.	200	0.000	0.020	0.020	5001 6 (1)
d	Trial	Kg.	1250	0.000	0.028	0.028	500 kg fertilizer.
_	Sub-total			0.000	0.119	0.119	
В	Wheat Development Activities:		200	0.000	0.020	0.020	
a	Farmers Training	No.	200	0.000	0.020	0.020	
b	Promotion/Demonstration	Kg.	2000	0.000	0.040	0.040	1000 kg fertilizer.
С	Field Day	No.	200	0.000	0.020	0.020	
	Sub-total	ļ		0.000	0.080	0.080	
C	Mustard Improvement Activities:						
a	Farmers Training	No.	200	0.000	0.020	0.020	
b	Promotion/Demonstration	Kg.	600	0.000	0.033	0.033	1000 kg fertilizer.
c	Field Day	No.	200	0.000	0.020	0.020	
	Sub-total			0.000	0.073	0.073	
D	Maize Development Activities						
a	Farmers Training	No.	200	0.000	0.020	0.020	
b	Promotion/Demonstration	Kg.	200	0.000	0.005	0.005	200 kg fertilizer.
С	Field Day	No.	200	0.000	0.020	0.020	
	Sub-total			0.000	0.045	0.045	
2	Horticulture Development						
A	Orange Development Activities						
a	Farmers Training	No.	200	0.000	0.020	0.020	
b	Promotion	No.	3200	0.000	0.064	0.064	Nu. 20/plant.
	Sub-total			0.000	0.084	0.084	
В	Mango Development Activities						
a	Farmers Training	No.	200	0.000	0.020	0.020	
b	Promotion	No.	2800	0.000	0.084	0.084	Nu. 30/plant.
	Sub-total			0.000	0.104	0.104	•

С	Walnut Development Activities						
a	Farmers Training	No.	200	0.000	0.020	0.020	
b	Promotion	No.	1500	0.000	0.030	0.030	Nu. 20/plant.
	Sub-total			0.000	0.050	0.050	
D	Lemon Development Activities						
a	Farmers Training	No.	200	0.000	0.020	0.020	
b	Promotion	No.	2800	0.000	0.050	0.050	Nu. 18/plant.
	Sub-total			0.000	0.070	0.070	
3	Asparagus Development						
	Activities:						
a	Farmers Training	No.	200	0.000	0.020	0.020	
b	Promotion	No.	53000	0.000	0.212	0.212	Nu. 4/plant
С	Field Day	No.	200	0.000	0.020	0.020	
	Sub-total			0.000	0.252	0.252	
4	Potato Dev. Activities:						
a	Farmers Training	No.	200	0.000	0.020	0.020	
b	Promotion	Kg.	7000	0.000	0.056	0.056	Nu. 8/kg
С	Field Day	No.	200	0.000	0.020	0.020	
	Sub-total			0.000	0.096	0.096	
5	Chilli Dev. Activities:						
a	Farmers Training	No.	200	0.000	0.020	0.020	
b	Promotion	Pkt	4300	0.000	0.052	0.052	Nu. 8/kg.
С	Field Day	No.	200	0.000	0.020	0.020	
	Sub-total			0.000	0.092	0.092	
6	Soil Fertility Management						
a	Fertilizer Trial	Kg.	1000	0.000	0.010	0.010	Nu. 10/kg
	Sub-total			0.000	0.010	0.010	
7	Farmers Study Tour	No.	40	0.000	0.120	0.120	
	Sub-total			0.000	0.120	0.120	
8	Renovation of Irri. Channel:						
a	Khuru Gumap	Km	12	0.000	1.500	1.500	
b	Lakhu	Km	1	0.000	0.150	0.150	
С	Dochoricha	Km	2	0.000	0.300	0.300	
d	Dakarpo	Km	1.8	0.000	0.270	0.270	
	Sub-total			0.000	2.220	2.220	
9	Farm Road Construction						
a	Darchegang to Yungu	Km	1	0.000	1.000	1.000	
	Sub-total			0.000	1.000	1.000	
	Agriculture Total			0.000	4.415	4.415	

10	Livestock Breed Improvement						
	Activities :						
a	Supply of Mithun Bulls	No.	1	0.000	0.000	0.000	Farmers pay
b	Jersey Artificial Insemination	No.	100	0.000	0.005	0.005	
С	Donkey	No.	4	0.000	0.000	0.000	Farmers pay
d	Boeta	No.	1	0.000	0.000	0.000	Farmers pay
	Sub-total			0.000	0.005	0.005	
11	Piggery Development Program						
a	Backyard Unit	No.	4	0.000	0.000	0.000	
b	Supply of Piglets	No.	20	0.000	0.000	0.000	Farmers pay
С	Farmers Training	No.	4	0.000	0.004	0.004	
d	Farmers Study Tour	No.	4	0.000	0.008	0.008	
	Sub-total			0.000	0.012	0.012	
12	Poultry Dev. Program						
a	Backyard Unit	No.	9	0.000	0.000	0.000	
b	Supply of Pullets	No.	150	0.000	0.000	0.000	Farmers pay
c	Farmers Training	No.	9	0.000	0.009	0.009	
d	Farmers Study Tour	No.	9	0.000	0.018	0.018	
	Sub-total			0.000	0.027	0.027	
13	Animal Health Program:						
a	Vaccination	No.	3000	0.000	0.050	0.050	
b	Deworming	No.	2500	0.000	0.053	0.053	
c	Treatment	No.	3000	0.000	0.105	0.105	
d	Training of Village Animal	No.	8	0.000	0.008	0.008	
	Husbandry Workers (VAHW)						
	Sub-total			0.000	0.216	0.216	
14	Feed & Fodder Development						
a	Fodder Tree Seedling Distribution	No.	200	0.000	0.002	0.002	
b	Supply of Pasture Seed	Kg	24	0.000	0.010	0.010	
c	Supply of Oat Seed	Kg	240	0.000	0.007	0.007	
	Sub-total			0.000	0.019	0.019	
15	Extension Program						
a	Milk Cooperative	No.	1	0.000	0.000	0.000	
b	Churner	No.	5	0.000	0.000	0.000	
с	A.I. Centre/Cattle Crash	No.	4	0.000	0.040	0.040	
	Sub-total			0.000	0.040	0.040	
	Livestock Total			0.000	0.319	0.319	
16	Private Forest Plantation	No.	1,612	0.000	0.007	0.007	
17	Community Forestry	No.	1,500	0.000	0.060	0.060	
18	Mgt. Plan for Com. Forestry	No.	2	0.000	0.040	0.040	

19	Farmers Training	No.	2	0.000	0.090	0.090	
	Forestry Total			0.000	0.197	0.197	
20	Establishment of new Lhakhu						
	Community School:						
a	Materials for building			0.000	0.500	0.500	
b	Furniture			0.000	0.200	0.200	
С	Supply of Computers	No.	3	0.000	0.160	0.160	
	Sub-total			0.000	0.860	0.860	
21	Establishment of new Phulisu						
	Community School:						
a	Materials for building			0.000	0.500	0.500	
b	Furniture			0.000	0.200	0.200	
С	Supply of Computers	No.	3	0.000	0.160	0.160	
	Sub-total			0.000	0.860	0.860	
	Education Total			0.000	1.720	1.720	
22	Development of ORC						
a	Construction of ORC	No.	1	0.000	0.090	0.090	Phulisu
	Sub-total			0.000	0.090	0.090	
23	Health Promotion Activities			0.000	0.075	0.075	Royalty for timber.
	Sub-total			0.000	0.075	0.075	
24	Constn. of new Rural Water						
	Supply Schemes (RWSS)						
a	Pacheykha	No.	1	0.000	0.120	0.120	
b	Tharabarchey	No.	1	0.000	0.120	0.120	
c	Changyuel	No.	1	0.000	0.120	0.120	
	Sub-total			0.000	0.360	0.360	
25	Rehabilitation of RWSS			0.000	0.720	0.720	
a	Jangsa	No.	1				
b	Wolakha	No.	1				
С	Thara	No.	1				
d	Dochukha	No.	1				
e	Teetsa	No.	1				
f	Tharabarchey	No.	1				
	Sub-total			0.000	0.720	0.720	
	Health Total			0.000	1.245	1.245	
26	Improvement of Mule Tracks						
a	Silipang to Bjapchukarmo	Km	5	0.000	0.007	0.007	
	Sub-total			0.000	0.007	0.007	
	Suspension Bridges & Mule						
	Track Total			0.000	0.007	0.007	

27	Gewog Administration Program:						
a	Construction of Gup's Office	No.	1	0.000	0.600	0.600	
b	GYT Capacity Building	No.	5	0.000	0.100	0.100	Training/Study Tour
С	Office Equipment			0.000	0.015	0.015	Typewriter
d	Furniture			0.000	0.010	0.010	
e	Renovation of Darpchagang	No.	1	0.000	0.010	0.010	
	Chorten						
f	Reconstn. Of Kangnima Tabab	No.	1	0.000	0.100	0.100	
	Chorten						
g	Renovation of Kangnima	No.	1	0.000	0.030	0.030	
	Zomlithang Chorten						
h	Establishment Cost			0.475	0.000	0.475	
	Gewog Adm. Total			0.475	0.865	1.340	
	Gewog Grand Total			0.475	8.768	9.243	

5 PLAN IMPLEMENTATION, MONITORING AND EVALUATION

The GYT Chathrim 2002 delineates specific roles and responsibilities to all functionaries involved in development administration and management in the Gewog. It is, however, deemed necessary to underscore some essential processes that must be observed in executing the above roles and responsibilities.

The financial powers and authority of the Gewog Administration for the implementation of the planned activities are also enshrined in the GYT Chathrim 2002.

Plan implementation

The Gup, GYT *Tshogpas* and the community as a whole will take on full accountability and ownership of gewog development activities. The clear delineation of implementation time frames, responsibilities and contributions from the community should be developed for the effective implementation of gewog activities.

Annual and Quarterly Plans

Based on the Five-Year Plan, the Gup will prepare Annual Plans and Budgets (AP&B) in consultation with the gewog sectoral staff and submit it to GYT. After the GYT discusses and approves the Draft AP&B, it will be put up for approval to the DYT.

Once the DYT approves the AP&B, the GYT will develop a Quarterly Work Plan and Budget in consultation with the sectoral staffs and other functionaries in the gewog such as Mangmi, Chimi and Tshogpas. The implementation of the Quarterly Work Plan will be the responsibility of the Gup and the Tshogpas with technical support from the staff of the concerned sectors.

Based on the Quarterly Work Plan, the concerned sectoral staff responsible for the implementation of any planned activity will elaborate a detailed implementation plan and budget for approval and

budget release by the Gup. Copy of this plan will be sent for information to the concerned sectoral heads and relevant agencies. Upon completion of the activity, the responsible person will submit a report to the Gup and the concerned sectoral heads and relevant agencies.

Monitoring and Evaluation

Monitoring

The GYT in the Gewog will be responsible for progress and performance monitoring of the planned activities. The GYT should convene monthly meetings with technical staff and other responsible persons for implementation to review the progress in the implementation of every activity and to take timely corrective actions when required. The Gewog will seek technical back-up services from the Dzongkhag Administration when necessary.

Based on the received reports and monthly meetings the Gup will submit a quarterly report to the Dzongkhag administration. Technical reports from the different sectors will be attached to the Gup's quarterly report.

The Gup will verify the travel claims of all sectoral personnel in the gewog so that the performance of the Gewog staff can be monitored.

Evaluation

To assess the impact and benefit of development programs and projects in the Gewogs, the Government will launch periodic evaluation missions in coordination with the Dzongkhag Administration.