

LINGMUKHA GEWOG

NINTH PLAN

(2002-2007)



PUNAKHA DZONGKHAG
ROYAL GOVERNMENT OF BHUTAN

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1 Current Situation

Lingmukha Gewog is located between Shenga Bjime Gewog and Wangdue Phodrang Dzongkhag. The Gewog has 188 households.

The climate of Lingmukha Gewog is sub-tropical which has usually cool winters and warm and humid summers. The annual rainfall ranges from 500mm to 1500mm in the gewog. The minimum and maximum temperatures range from 5 degree Celsius to 30 degree Celsius. Altitude of the gewog ranges from 1200-3000 m above sea level.

75% land in the Gewog is covered by forest. The Gewog has 343 acres of wetland, 136 acres of dryland, 12 acres of orchard, 45 acres of sokshing, 20 acres of pangshing and 149 acres of tsamdro.

The Gewog has one Basic Health Unit (BHU), one Out Reach Clinic (ORC), one primary school, an agriculture extension centre, one livestock extension centre and a forest beat office. The upper part of the Gewog has extensive forest cover and people have easy access to the forest resources. The Gewog is highly potential for paddy, wheat, mustard, maize and horticulture production. The Gewog is also connected by a feeder road.

Land data of Lingmukha gewog

Sl. #	Chiwog	Wet-land	Dry-land	Cash crop	Tsheri	Sog-shing	Pang-shing	Tsamdro	Total
1	Omtekha	23.37	19.83	6.43	-	-	-	32.07	81.70
2	Dompola	60.67	27.18	-	-	6.98	4.70	-	99.53
3	Lingmukha	80.00	28.85	4.05	-	28.22	7.90	101.09	250.11
4	Gumkarmo	52.68	17.72	1.60	-	-	-	1.00	73.00
5	Eusakha	51.92	21.59	-	-	5.65	4.55	14.33	98.04
6	Nabchay	4.52	20.98	-	-	4.41	3.26	-	33.77
	Total	343.22	136.16	12.08	-	45.26	20.41	149.03	635.55

Sl.No.	Livestock Type	Population in (Nos.)
1	Cattle	1,131
2	Yak	0
3	Horses	144
4	Mules	10
5	Donkeys	0
6	Goats	0
7	Pigs	246
8	Poultry	520

Source: RNR statistics - 2000

2 Gewog Plan Outlay

Nu. in million

Sl.#	Sectors	Rec.	Cap.	Tot.	Remarks
1	Agriculture Program	0.000	3.709	3.709	
2	Livestock Program	0.000	0.274	0.274	
3	Forestry Program	0.000	0.693	0.693	
4	Education Program	0.000	0.000	0.000	
5	Health Program	0.000	0.870	0.870	
6	Suspension Bridge & Mule Track Program	0.000	0.562	0.562	
7	Gewog Administration Program	0.475	0.800	1.275	
	Gewog Grand Total	0.475	6.908	7.383	

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*

Two Km of farm road is proposed from Tshochasa to Napchey during the Ninth Plan. The proposed farm road will help Napchey and Eusakha villages to gain access to market in Wangdue Phodrang and Thimphu.

c) *Renovation of Irrigation Channel*

A total of about 12 Km of existing irrigation channel is proposed for renovation during the Ninth Plan for Khasing Tshawwa, Barchukha, Omtékha and Jabtshikha villages which would benefit about 104 households and 217 acres of wetland.

d) *Farm Machineries*

Farmers from Lingmukha Gewog have requested for supply of 30 power tillers, 15 rice hullers, five Corn-flake machines, 11 Electric Oil Expeller and one Kubota Mini Tractor during the Ninth Plan to enhance farm productivity and to address farm labour shortage.

Livestock Programs

a) Cattle Breeding Program

The villages far away from motor able road would like to have one Jersey Bull to improve cattle breed.

b) Dairy farm

Tshering Zam of Omtexha village wishes to establish dairy farm with five cows to enhance her household income. Livestock sector of the Dzongkhag will assist her to select good breed cows to set up dairy backyard. Farm management training and rural credit shall be made available to support her initiative.

c) Piggery Farm

Four farmers from Eusakha and Omtexha villages wish to establish piggery farm to enhance their income. Animal Husbandry sector of the Dzongkhag will assist them in supplying improved breed piglets from the parent farm. The four interested farmers will be provided piggery management training, study tours and rural credit facilities during the Ninth Plan to enhance their management capacity.

Sl.No.	Farmers name	Village	No. of piglets
1	Taula	Eusakha	5 No.
2	Kinley Dorji	Omtexha	5 No.
3	Phurba	Eusakha	5 No.
4	Tshering Pem	Omtexha	5 No.
	Total		20 No.

d) Poultry Farm

Four farmers from Gumkarmo, Nabchey, Omtexha and Eusakha villages wish to establish poultry farm to enhance their income. Animal Husbandry sector of the Dzongkhag proposes to supply improved breed pullets from the parent farm. The four interested farmers will be provided poultry management training, study tours and rural credit facilities during the Ninth Plan to enhance their management capacity.

Sl.No.	Farmers name	Village	No. of pullets
1	Pala	Gumkarmo	15 No.
2	Rinzin	Nabchey	15 No.
3	Tshering Dem	Omtexha	15 No.
4	Namgyem	Eusakha	15 No.
	Total		60 No.

e) Feed and Fodder Development Program

This Gewog has limited dry land, sogshing and pangshing. It has about 149 acres of tsamdro. To supplement fodder from natural grasses, farmers will be encouraged to plant fodder trees, develop pasture land and sow oat seeds.

Perennial Pasture

Sl.No.	Farmers Name	Village	Acreage
1	Ap Kuta	Lingmukha	1 acre
2	Tshering Pem	Omtekha	2 acres
3	Thuji	Eusakha	0.25 acre
4	Namgay Lham	Eusakha	-
	Total		No.

f) Animal Health Program

Vaccination and de-worming against major epidemic livestock diseases will continue to be provided. One Village Animal Husbandry Worker (VAHW) will be given training in basic and simple animal treatment during the Ninth Plan.

Forestry Programs

a) Private Forest

With increase in population, the pressure on forest for timber, fuel wood and other forest products is increasing. Therefore, people will be encouraged to plant trees in their private registered land to meet their construction timber requirement and also to generate cash income in long run.

Sl.No.	Programme/Activity	Unit	Target
1	Private forest	No	5800
a	Dorji Bidha (Lingmukha)	Acre	0.50
b	Dorji Wangmo	Acre	1
c	Namgay Wangmo	Acre	1
d	Kencho Dorji	Acre	0.50
e	Wangmo	Acre	1
f	Sangay Dem	Acre	0.50
g	Kencho Dorji (Nabchey)	Acre	0.50
h	Passang Om (Dompola)	Acre	0.25
	Sub-total		5800

b) Community Forestry

In line with the policy objectives of the Department of Forestry, people shall be encouraged to participate in protection and management of the forest resources. Patch of Government reserve forest shall be handed over to the local communities to meet their basic needs for wood and non-wood forest products on sustainable basis. Community forest will be established in four suitable locations.

c) Sogshing Management

In the rural communities leaf litter is highly used for cattle bedding and as manure. During the Ninth Plan under stocked and degraded sogshing stands will be improved by planting suitable tree species to sustain leaf litter availability in the long run.

d) Farmers Training

With the aim to educate and create awareness on the importance of forest and the surrounding environment and also to encourage peoples' participation in forest management, farmers training in the field of tree seedling raising (nursery establishment), community forest management, private forest management, forest fire prevention and control, environment awareness and preparation of management plan for community forestry and private forestry will be conducted during the Ninth Plan.

Health Programs

a) Health Promotion Activities

In order to promote health and hygiene of the people, construction of latrines, footpath soling, garbage pits, separation of animal sheds from houses and drainage around houses will be given great impetus during the Ninth Plan.

b) New Rural Water Supply Scheme

Five villages of Nabchey, Lumpa, Sachamo, Eusa and Jangsabo do not have access to safe drinking water supply and therefore new schemes are proposed for them during the Ninth Plan.

c) Rehabilitation RWS Schemes

Gumkarmo RWSS is in bad condition. Therefore, 16 households from Gumkarmo village have requested for rehabilitation of RWSS during the Ninth Plan.

d) Spring Protection

The villages of Limbu, Pangangmo, Jazikha and Cherina do not have safe drinking water supply. Therefore, the four villages have requested for spring protection in the Ninth Plan period.

Suspension Bridge and Mule Track Programs

a) *Improvement of Mule Tracks*

About 10 Km of mule track from Gumkarmo to Lingmukha shall be improved during the Ninth Plan to make more users friendly.

Gewog Administration Programs

a) *Construction of Gup's Office*

Since Lingmukha 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.

b) *Maintenance of Chorten*

Some minor maintenance works will be carried out on Dompola Lhakhang by providing CGI roofing and painting during the Ninth Plan.

4 Budget Estimate

Nu. in million

Sl. #	Activities	Unit	Target	Budget			Remarks
				Rec.	Cap.	Total	
1	Crop Improvement Program						
A	Paddy Improvement Activities:						
a	Farmers Training	No.	150	0.000	0.015	0.015	
b	Promotion/Demonstration	Kg.	2000	0.000	0.044	0.044	800 kg fertilizer.
c	Field Day	No.	150	0.000	0.015	0.015	
d	Trial	Kg.	1000	0.000	0.022	0.022	400 kg fertilizer.
	Sub-total			0.000	0.096	0.096	
B	Wheat Development Activities:						
a	Farmers Training	No.	150	0.000	0.015	0.015	
b	Promotion/Demonstration	Kg.	1000	0.000	0.020	0.020	500 kg fertilizer.
c	Field Day	No.	150	0.000	0.015	0.015	
	Sub-total			0.000	0.050	0.050	
C	Mustard Improvement Activities:						
a	Farmers Training	No.	150	0.000	0.015	0.015	
b	Promotion/Demonstration	Kg.	600	0.000	0.033	0.033	1000 kg fertilizer.
c	Field Day	No.	150	0.000	0.015	0.015	
	Sub-total			0.000	0.063	0.063	
D	Maize Development Activities						
a	Farmers Training	No.	150	0.000	0.015	0.015	
b	Promotion/Demonstration	Kg.	100	0.000	0.003	0.003	100 kg fertilizer.

c	Field Day	No.	150	0.000	0.015	0.015	
	Sub-total			0.000	0.033	0.033	
2	Horticulture Development						
A	Orange Development Activities						
a	Farmers Training	No.	150	0.000	0.015	0.015	
b	Promotion	No.	1550	0.000	0.051	0.051	Nu. 20/plant.
	Sub-total			0.000	0.066	0.066	
B	Mango Development Activities						
a	Farmers Training	No.	150	0.000	0.015	0.015	
b	Promotion	No.	2550	0.000	0.077	0.077	Nu. 30/plant.
	Sub-total			0.000	0.092	0.092	
C	Walnut Development Activities						
a	Farmers Training	No.	150	0.000	0.015	0.015	
b	Promotion	No.	2125	0.000	0.043	0.043	Nu. 20/plant.
	Sub-total			0.000	0.058	0.058	
D	Apple Development Activities						
a	Farmers Training	No.	150	0.000	0.015	0.015	
b	Promotion	No.	2125	0.000	0.052	0.052	Nu. 25/plant.
	Sub-total			0.000	0.067	0.067	
3	Asparagus Dev. Activities:						
a	Farmers Training	No.	150	0.000	0.015	0.015	
b	Promotion	No.	56100	0.000	0.224	0.224	Nu. 4/plant
c	Field Day	No.	150	0.000	0.015	0.015	
	Sub-total			0.000	0.254	0.254	
4	Potato Dev. Activities:						
a	Farmers Training	No.	150	0.000	0.015	0.015	
b	Promotion	Kg.	3400	0.000	0.027	0.027	Nu. 8/kg
c	Field Day	No.	150	0.000	0.015	0.015	
	Sub-total			0.000	0.057	0.057	
5	Chilli Dev. Activities:						
a	Farmers Training	No.	150	0.000	0.015	0.015	
b	Promotion	Pkt	1666	0.000	0.020	0.020	Nu. 12/pkt.
c	Field Day	No.	150	0.000	0.015	0.015	
	Sub-total			0.000	0.050	0.050	
6	Soil Fertility Management						
a	Fertilizer Trial	Kg.	800	0.000	0.008	0.008	Nu. 10/kg
	Sub-total			0.000	0.008	0.008	
7	Farmers Study Tour	No.	30	0.000	0.090	0.090	
	Sub-total			0.000	0.090	0.090	
8	Renovation of Irri. Channel:						
a	Khasing Tsawa	Km	2	0.000	0.300	0.300	30 HH

b	Barchukha	Km	3	0.000	0.450	0.450	18 HH
c	Omtekha	Km	3.5	0.000	0.525	0.525	28 HH
d	Jabtshikha	Km	3	0.000	0.450	0.450	28 HH
	Sub-total			0.000	1.725	1.725	
9	Farm Road Construction						
a	Tshochasa to Napcha	Km	2	0.000	1.000	1.000	
	Sub-total			0.000	1.000	1.000	
	Agriculture Total			0.000	3.709	3.709	
10	Livestock Breed Improvement:						
a	Supply of Pure Jersey Bull	No.	1	0.000	0.012	0.012	
	Sub-total			0.000	0.012	0.012	
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
c	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.	4	0.000	0.000	0.000	
b	Supply of Pullets	No.	40	0.000	0.000	0.000	Farmers pay
c	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	
13	Animal Health Program:						
a	Vaccination	No.	4000	0.000	0.060	0.060	
b	Deworming	No.	3500	0.000	0.060	0.060	
c	Treatment	No.	4000	0.000	0.105	0.105	
d	Training of Village Animal Husbandry Workers (VAHW)	No.	1	0.000	0.001	0.001	
	Sub-total			0.000	0.226	0.226	
14	Feed & Fodder Development						
a	Pasture Development	Acre	6	0.000	0.012	0.012	
	Sub-total			0.000	0.012	0.012	
	Livestock Total			0.000	0.274	0.274	
15	Private Forest Plantation	No.	5,800	0.000	0.034	0.034	
16	Community Forestry	Acre	14	0.000	0.420	0.420	
17	Mgt. Plan for Com. Forestry	No.	4	0.000	0.120	0.120	
18	Sokshing	No.	1,750	0.000	0.007	0.007	
19	Farmers Training	No.	6	0.000	0.112	0.112	
	Forestry Total			0.000	0.693	0.693	

20	Establishment of Non-Formal Education Centres						Budget with D'khag
a	Lingmukha	No.	1	0.000	0.000	0.000	
b	Gumkarmo	No.	1	0.000	0.000	0.000	
c	Nabchey	No.	1	0.000	0.000	0.000	
d	Omtékha	No.	1	0.000	0.000	0.000	
	Education Total			0.000	0.000	0.000	
21	Health Promotion Activities			0.000	0.050	0.050	Royalty for timber.
	Sub-total			0.000	0.050	0.050	
22	Constn. of new Rural Water Supply Schemes (RWSS)			0.000	0.600	0.600	
a	Napchey	No.	1	0.000	0.120	0.120	20 HH
b	Lumpa	No.	1	0.000	0.120	0.120	10 HH
c	Sachamo	No.	1	0.000	0.120	0.120	10 HH
d	Eusa	No.	1	0.000	0.120	0.120	17 HH
e	Jangsabo	No.	1	0.000	0.120	0.120	14 HH
	Sub-total			0.000	0.600	0.600	
23	Rehabilitation of RWSS						
a	Gumkarmo	No.	1	0.000	0.120	0.120	16 HH
	Sub-total	No.		0.000	0.120	0.120	
24	Spring Protection			0.000	0.100	0.100	
a	Limbu	No.	1				
b	Pangangmo	No.	1				
c	Jazikha	No.	1				
d	Cherikha	No.	1				
	Sub-total			0.000	0.100	0.100	
	Health Total			0.000	0.870	0.870	
25	Improvement of Mule Tracks						
a	Gumkarmo to Lingmukha	Km	10	0.000	0.562	0.562	
	Sub-total			0.000	0.562	0.562	
	Suspension Bridges & Mule Track Total			0.000	0.562	0.562	
26	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
c	Office Equipment			0.000	0.015	0.015	Typewriter
d	Furniture			0.000	0.010	0.010	
e	Renovation of Dompola Lhakhang	No.	1	0.000	0.075	0.075	
f	Establishment Cost			0.475	0.000	0.475	
	Gewog Adm. Total			0.475	0.800	1.275	
	Gewog Grand Total			0.475	6.908	7.383	

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.