

TANG GEWOG

NINTH PLAN

(2002-2007)



BUMTHANG DZONGKHAG
ROYAL GOVERNMENT OF BHUTAN

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1 Current Situation

Tang gewog is located in the eastern part of Bumthang Dzongkhag and has an area of about 511 square kilometers. It is bordered by Lhuentse Dzongkhag to the north and east, Ura Gewog to the south, and Chhoekhor Gewog to the west. The altitudes of the gewog ranges from approximately 2800-5000 meters above sea level.

A 27 km feeder road, which touches most of the villages of the Gewog, connects Tang Gewog. It has one Community Primary School and one Primary School with a total student population of 257 and catering to about 308 households. The gewog does not have good educational coverage and its gross primary enrolment rate is only 54% while intake rate is at PP is 41% which can be attributed to distance and scattered nature of villages. The Gewog has two Non-Formal Education centres with 60 candidates.

The Gewog has three ORC and a BHU which provide health service to the Gewog. Over 70 % of the population has access to piped drinking water supply and sanitation.

Potato and apple dominates other cash crops as the main source of both cash income and for personal consumption. Farmers of Tang gewog depend on livestock besides agriculture for livelihood. The most important livestock for the farmers of the gewog are sheep and cattle.

Land Use of Tang Geog

Sl.#	Land Type	Area in Hectares
1	Dryland	1444.02
2	Conifer	31835.30
3	Scrub forest	10751.70
4	Horticulture	7.04
5	Open / eroded	3.90
6	Rocks	1134.47
7	Snow	101.31
8	Water bodies	168.55
9	Improved pasture	610.19
10	Natural pasture	5012.78
11	Settlements	63.28
	Total area of the Geog	51132.60

Source: Land Use and Statistics Section, PPD/MoA

2 Gewog Plan Outlay

Nu. in million					
Sl.#	Sector	Rec.	Cap.	Total	Remarks
1	Agriculture Program	0.000	4.886	4.886	
2	Livestock Program	0.000	0.858	0.858	
3	Forestry Program	0.000	1.121	1.121	
4	Education Program	0.000	1.400	1.400	
5	Health Program	0.000	0.842	0.842	
6	Suspension Bridges & Mule Track Program	0.000	0.140	0.140	
7	Geog Administration Program	0.475	1.075	1.550	
	Geog Grand Total	0.475	10.322	10.797	

3 Gewog Development Programs

Agriculture Programs

a) *Cereal Crops Development Activities*

The people of Tang Gewog has identified wheat, barley, rye and oilseed as priority crops for their Gewog during the Ninth Plan. Therefore, production of these crops will be given priority through conducting farmers training, demonstration, on farm trials, holding field days, discussion and supply of improved seeds.

b) *Horticulture Development Programme*

The people of Tang Gewog has identified walnut, strawberry, apple, potato, asparagus and vegetables as priority cash crops for their gewog during the Ninth Plan. Therefore, production of these crops will be given priority through conducting farmers training, demonstration, on farm trials, holding field days, discussion, supply of improved seeds and seedlings.

c) *Irrigation Channel Construction*

The farmers of Tang Gewog has requested for the construction and rehabilitation of following irrigation channel during the Ninth Plan period:

- 0.5 km new channel at Pangshing with 12 households and 30 acres of land.
- 0.5 km of rehabilitation at Nangnang with 8 household and command area of 35 acres.
- 1 km of rehabilitation at Jamshong with 16 households and 48 acres of land.
- 0.5 km of rehabilitation at Khangrab with 24 households and 65 acres of land.
- 0.5 km of rehabilitation at Tandigang with 17 households 75 acres of land.

d) Farm Road Construction

Farmers of this Gewog have requested for the construction of three kilometers of farm road for Naruth, Chozam, Ugenchholing, Gamling, Chhutoe and Nimalung villages with 118 households to facilitate them in transporting their agricultural inputs and produces.

e) Farm mechanisation

The farmers of Tang Gewog have requested for the supply of four HP tractor, six power tiller, eight wheat power thresher, six power tiller, 12 knapsack power sprayer, seven flour mill, 38 scatter, eight potato weeder, five watering can, 13 power chain saw, two oil expeller, 12 pruning equipment, three green house and one maize thresher.

f) River bank protection

The people of Tang have requested for 0.3 Km of riverbank protection along the Tang river in order to avoid inundation of land which are located in the banks of the Tang river.

g) Institutional and Capacity Development Program under Agriculture

Study tours within the Dzongkhag and to other Dzongkhags shall be organised for the farmers of the Gewog to share experiences with other farmers and to expose to other demonstrative activities to inculcate learning by seeing.

Livestock Programs

a) Livestock Breed Improvement Programme

With an objective to improve livestock breed and its products, the Dzongkhag will procure and distribute five jersey bulls, four yak bulls, four rams, one Nublang, eight Mithuns, five Stallions, two donkey and 2080 pullets as per demand of the farmers during the Ninth Plan. A total of 2829 Kgs of pasture seeds will also be distributed to the farmers to develop 246 acres of pastureland to meet the feed requirement.

To make animal health services cost effective and efficient at Gewog level, 17 Village Animal Health Workers (VAHWs) from different villages under the Gewog shall be trained in basic and simple animal treatment during the Ninth Plan.

b) Backyard Farms

Farmers shall be encouraged to establish small-scale livestock backyard farms. Five dairy and 14 poultry backyard farms shall be established during the Ninth Plan.

c) Institutional and capacity building program

A total of 1000 farmers shall be trained under different livestock management system with an objective to enhance skills and knowledge of the farmers on improved livestock management. In addition, about 100 selected farmers shall also be taken for study tour to different farms and Dzongkhags to share experiences and observe livestock management.

Further, advanced equipment like butter churning machine, wool processing equipment and other labour saving devices shall be made available as per demand.

Forestry Programs

a) Private Forestry

About 500 acres of private land shall be registered as private forest which will benefit 251 households under Tang gewog during the Ninth Plan. About 7000 tree seedlings shall be distributed to the farmers to plant in their private forest and private ownership certificate shall be issued.

b) Community Forestry

To involve the community in participatory forest management, one community forest shall be established in Tang gewog on pilot basis during the Ninth Plan. The Dzongkhag shall provide fencing material and seedlings.

c) Forest Fire management

To have effective forest fire control, the Forestry sector will purchase fire-fighting equipment and distribute to the geog. It is also proposed to demarcate fire line to prevent out break of forest fire.

d) Watershed Management

The Dzongkhag Forestry sector together with the Territorial Forest Division and the concerned beneficiaries will demarcate critical water source/watershed at Tandigang with 17 households to protect water sources against disturbances by human and animal interference. A management plan for their protection will be prepared and implemented.

e) Institutional and Capacity Development Program under Forestry

a) Farmers Training

Following training shall be carried out in Ninth Plan:

- Farmers training on private forestry establishment
- Farmers training on Community Forestry establishment and management
- Farmers training on Rural Timber Supply rules and procedures
- Farmers training on Forest fire management

b) Farmers study tour

Forestry sector shall organize farmers study tour to both outside and within the Dzongkhag in order to enhance farmer's knowledge and familiarize themselves with the forestry activities of other Dzongkhags.

Education Programs

a) Construction of new and maintenance of existing community schools

A new Community Primary School shall be established at Bepzur for Kunzang-dak, Phomdrang and Bepzur villages in order to place school closer to the communities. It will benefit about 56 households. The community shall construct and maintain the schools while the government shall provide roofing materials and furniture.

Further, existing Khangrab Community School shall be renovated and furniture and other necessary office equipment shall be provided.

Health Programs

a) Re-siting of Bepzur Out Reach Clinic (ORC)

The existing ORC located at Bepzur shall be relocated at a convenient and centrally located place. Community shall construct the ORC with roofing and skilled labour from the Government.

b) Environmental Hygiene

The Dzongkhag shall stress on environmental hygiene and sanitation and the health sector shall encourage the people to dig garbage pits to dispose off non-degradable waste in each cluster of village. The existing footpath in the villages shall be improved and construction of latrine for each households and keeping the animals away from the houses shall be encouraged.

c) Rehabilitation of Rural Water Supply Scheme (RWSS)

It is proposed to rehabilitate five existing RWSS of Pangsing, Bepzur, Ugyen Choling and Urtse with 92 households shall be rehabilitated during the Plan. The beneficiaries shall contribute unskilled labour and the Dzongkhag shall be requested to provide materials and skilled labour.

Suspension Bridge and Mule Track

a) Maintenance of Existing Bridges and Mule Tracks

The four existing suspension bridges will be renovated from time to time to make them safe for travel.

Gewog Administration Programs

a) Construction of Gup's Office

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

4 Budget Estimate

Nu. in Millions

Sl. #	Activities	Unit	Target	Budget			Remarks
				Rec.	Cap.	Total	
1	Cereal Improvement Program						
A	Wheat Development Activities:						
a	Farmers training	HH	178	0.000	0.027	0.027	
b	Demonstration	No.	7	0.000	0.035	0.035	
c	Field day	No.	7	0.000	0.035	0.035	
d	On-farm trials	No.	4	0.000	0.004	0.004	
e	Supply of seeds	Kg		0.000	0.000	0.000	On demand basis.
	Sub-total			0.000	0.101	0.101	
B	Oilseed Development Activities:						
a	Farmers training	HH	93	0.000	0.014	0.014	
b	Demonstration	No.	5	0.000	0.025	0.025	
c	Field day	No.	5	0.000	0.025	0.025	
d	On-farm trials	No.	3	0.000	0.003	0.003	
e	Supply of seeds	Kg		0.000	0.000	0.000	On demand basis.
	Sub-total			0.000	0.067	0.067	
C	Barley Development Activities:						
a	Farmers training	HH	93	0.000	0.014	0.014	
b	Demonstration	No.	8	0.000	0.020	0.020	
c	Field day	No.	8	0.000	0.020	0.020	
d	On-farm trials	No.	4	0.000	0.002	0.002	
e	Supply of seeds	Kg		0.000	0.000	0.000	On demand basis.
	Sub-total			0.000	0.056	0.056	
D	Rye Development Activities:						
a	Farmers training	HH	13	0.000	0.002	0.002	
b	Demonstration	No.	2	0.000	0.010	0.010	
c	Field day	No.	2	0.000	0.010	0.010	
d	Supply of seeds	Kg		0.000	0.000	0.000	On demand basis.
	Sub-total			0.000	0.022	0.022	
2	Horticulture Program						
A	Walnut Development Activities:						
a	Farmers training	HH	183	0.000	0.027	0.027	
b	Demonstration	No.	8	0.000	0.040	0.040	
c	Field day	No.	8	0.000	0.040	0.040	
d	Supply of seedlings	No.		0.000	0.000	0.000	On demand basis.
	Sub-total			0.000	0.107	0.107	
B	Strawberry Development Activities:						
a	Farmers training	HH	4	0.000	0.001	0.001	

b	Demonstration	No.	2	0.000	0.010	0.010	
c	Field day	No.	2	0.000	0.010	0.010	
d	Supply of seedlings	No.		0.000	0.000	0.000	On demand basis.
	Sub-total			0.000	0.021	0.021	
C	Apple Development Activities:						
a	Farmers training	HH	163	0.000	0.025	0.025	
b	Demonstration	No.	8	0.000	0.040	0.040	
c	Field day	No.	8	0.000	0.040	0.040	
d	On Farm Trial	No.	4	0.000	0.004	0.004	On demand basis.
	Sub-total			0.000	0.109	0.109	
3	Potato Development Activities:						
a	Farmers training	HH	202	0.000	0.030	0.030	
b	Demonstration	No.	9	0.000	0.045	0.045	
c	Field day	No.	9	0.000	0.045	0.045	
d	On-farm trials	No.	5	0.000	0.005	0.005	
e	Supply of seedlings	MT		0.000	0.000	0.000	On demand basis.
	Sub-total			0.000	0.125	0.125	
4	Asparagus Dev. Activities						
a	Farmers training	HH	22	0.000	0.003	0.003	
b	Demonstration	No.	4	0.000	0.020	0.020	
c	Field day	No.	4	0.000	0.020	0.020	
d	Supply of seedlings	No.		0.000	0.000	0.000	On demand basis.
	Sub-total			0.000	0.043	0.043	
5	Kitchen Garden Activities						
a	Farmers training	HH	168	0.000	0.025	0.025	
b	Demonstration	No.	10	0.000	0.050	0.050	
c	Field day	No.	10	0.000	0.050	0.050	
d	Supply of seedlings	No.		0.000	0.000	0.000	On demand basis.
	Sub-total			0.000	0.125	0.125	
6	Irrigation Dev. Program						
a	Constn. of new irrigation channel	Km	1	0.000	0.300	0.300	
b	Rehabilitation of Irri. Channel	Km	2	0.000	0.090	0.090	
	Sub-total			0.000	0.390	0.390	
7	Farm Road construction						
a	Farm road construction	Km	3	0.000	3.200	3.200	
	Sub-total			0.000	3.200	3.200	
8	River Bank Protection Program						
a	Protection of river banks	Km	0.3	0.000	0.232	0.232	
	Sub-total			0.000	0.232	0.232	
9	Farmers Study Tour						
a	Within the Dzongkhag	HH	216	0.000	0.080	0.080	

b	To other Dzongkhags	HH	40	0.000	0.200	0.200	
	Sub-total			0.000	0.280	0.280	
10	Farmers Training						
a	Training on Chemical Handling	HH	56	0.000	0.008	0.008	
	Sub-total			0.000	0.008	0.008	
	Agriculture Total			0.000	4.886	4.886	
11	Cattle Breed Dev. Program						
a	Supply of Jersey Bulls	No.	5	0.000	0.060	0.060	
b	Supply of yak bull	No.	4	0.000	0.000	0.000	
c	Supply of rams	No.	4	0.000	0.004	0.004	
d	Supply of Stallion	No.	5	0.000	0.012	0.012	
e	Supply of Mithun Bulls	No.	8	0.000	0.000	0.000	Sale at full cost.
f	Supply of Nublangs	No.	1	0.000	0.000	0.000	Sale at full cost.
g	Supply of Donkey	No.	2	0.000	0.000	0.000	Sale at full cost.
h	Supply of pullets	No.	2080	0.000	0.000	0.000	Sale at full cost.
I	Artificial Insemination			0.000	0.042	0.042	
j	Cattle show	No.	3	0.000	0.090	0.090	
	Sub-total			0.000	0.208	0.208	
12	Pasture & Fodder Dev. Program						
a	Pasture Development	Acre	246	0.000	0.300	0.300	
	Sub-total			0.000	0.300	0.300	
13	Animal Health Program						
a	Training of Village Animal Health Worker (VAHW)	Nos.	17	0.000	0.090	0.090	
	Sub-total			0.000	0.090	0.090	
14	Farmers Training:						
a	Dairy Management	HH	300	0.000	0.030	0.030	
b	Poultry Management	HH	200	0.000	0.020	0.020	
c	Pasture Management	HH	200	0.000	0.020	0.020	
d	Yak Husbandry	HH	100	0.000	0.010	0.010	
e	Sheep Husbandry	HH	200	0.000	0.030	0.030	
	Sub-total			0.000	0.110	0.110	
15	Study tour	HH	100	0.000	0.150	0.150	
	Sub-total			0.000	0.150	0.150	
16	Establishment of Backyard Farm						
a.	Dairy	Nos.	5	0.000	0.000	0.000	At farmer's cost.
b.	Poultry	Nos.	14	0.000	0.000	0.000	At farmer's cost.
	Sub-total			0.000	0.000	0.000	
	Livestock Total			0.000	0.858	0.858	

17	Private Forestry Activities:						
a	Supply of Seedlings	No.	7,000	0.000	0.043	0.043	
c	Issue of ownership certificate	No.	100	0.000	0.030	0.030	
	Sub-total			0.000	0.073	0.073	
18	Community Forestry Activities:						
a	Purchase of fencing materials	Hec.	50	0.000	0.425	0.425	
b	Preparation of Management Plan	No.	1	0.000	0.025	0.025	
	Sub-total			0.000	0.450	0.450	
19	Fire Management Program:						
a	Supply of fire fighting equipment	Set	2	0.000	0.040	0.040	
b	Demarcation of fire line	Km	3	0.000	0.037	0.037	
c	Refreshment for fire fighters			0.000	0.050	0.050	
	Sub Total			0.000	0.127	0.127	
20	Farmers Training						
a	Training on Private Forestry	No.	260	0.000	0.039	0.039	
b	Training on Community Forestry	No.	300	0.000	0.050	0.050	
c	Training on Rural Timber Supply	No.	20	0.000	0.015	0.015	
d	Training on Forest fire M'ment	No.	20	0.000	0.037	0.037	
	Sub Total			0.000	0.141	0.141	
21	Farmers Study tour						
a	To other Dzongkhags	No.	5	0.000	0.250	0.250	
b	Within the Dzongkhag	No.	10	0.000	0.080	0.080	
	Sub Total			0.000	0.330	0.330	
	Forestry Total			0.000	1.121	1.121	
22	Bepzur new Com. School						
a	Supply of construction materials			0.000	0.500	0.500	
b	Supply of furniture			0.000	0.200	0.200	
	Sub Total			0.000	0.700	0.700	
23	Khangrab Com. School						
a	Supply of construction materials			0.000	0.500	0.500	
b	Supply of furniture			0.000	0.200	0.200	
	Sub Total			0.000	0.700	0.700	
	Education Total			0.000	1.400	1.400	
24	Health Program:						
a	Resiting/construction of ORC	No.	1	0.000	0.110	0.110	
b	Rehabilitation of RWSS	No.	5	0.000	0.732	0.732	
	Sub Total			0.000	0.842	0.842	
	Health Total			0.000	0.842	0.842	

25	Suspension Bridge & Mule						
	Track Program:						
a	Maintenance of S'pension Bridges	No.	4	0.000	0.140	0.140	
	Sub Total			0.000	0.140	0.140	
	SB & Mule Track Total			0.000	0.140	0.140	
26	Geog Administration						
a	Electrification of Gup's Office			0.000	0.050	0.050	
b	Office equipment and Furniture			0.000	0.150	0.150	
c	GYT Training			0.000	0.075	0.075	
d	Renovation of Com. Lhakhangs			0.000	0.800	0.800	
E	Establishment Cost			0.475	0.000	0.475	
	Sub Total			0.475	1.075	1.550	
	Geog Adm. Total			0.475	1.075	1.550	
	Geog Grand Total			0.475	10.322	10.797	

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 *Tshokpas* 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.