

TOMZHANGTSHEN GEWOG

NINTH PLAN

(2002-2007)



TRASHIYANGTSE DZONGKHAG
ROYAL GOVERNMENT OF BHUTAN

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1 Current Situation

Tomzhangtshen Geog consist of 22 villages with 426 households, covering an area of about 84 square kilometers. The geog is bordered by Trashiyangtse geog in the north, Ngatshang geog of Mongar Dzongkhag in the west and Jamkhar geog in the south.

Paddy, maize, wheat, buckwheat and vegetables are the major crops grown. Orange is grown in a limited quantity although the geog has good potential to grow citrus fruits for cash income generation.

The construction of a rural access road to Geog center at Nyagardzong will provide the geog the opportunity to optimally utilize its potential in potato production and citrus fruits (mainly orange) in the lower altitudes to improve their cash income generation and rural incomes.

Tomzhangtshen Geog has two community primary schools. Although, majority of the households have access to schooling facilities, the existing schools are still very far for 198 households. The children from these communities walk more than four hours a day to the school, which greatly hampers their studies. The GPER for the Geog is estimated at 80% and the Pre Primary intake rate at 81%, which explains that more children are being admitted in the school. One Basic Health Unit (BHU) and two Out Reach Clinics (ORC) render basic health services in the gewog. The gewog also has one Renewable Natural Resource (RNR) centers which delivers RNR extension services in the geog.

Major land use types in the Geog

Land Use Types	Land Record Data (Registered)Acres	Land Use data (LUPS)Acres
Chhuzhing (wetland)	306	673
Kamzhing (dry land)	704	1595
Pangzhing (grass fallow land)	223	
Tseri (shifting cultivation)	264	370
Mixed		615
Orchard		
Tsamdrog (registered grazing land)	949	
Sokshing (leaf litter plot)	202	
Forest		
Coniferous (pine)		4113
Broad leaf		12420
Plantation		
Scrub Forest		625
Pasture (Natural)		323
Settlements		
Others		188
Total		

Major crops grown in the Geog

Sl. No.	Major crops	Acreage	Average Yield	Production in MT
1	Paddy	183	1.22	223.551
2	Maize	266	1.05	279.503
3	Wheat	31	0.427	13.245
4	Barley	5	0.16	.793
5	Millet	<5		NA
	Total			517.092

Livestock Population

Sl. #.	Type of livestock	Number
1	<i>Local Cattle</i>	1327
2	<i>Mithun Cross</i>	371
3	<i>Jersey Cross</i>	239
4	<i>Local Pigs</i>	485
5	<i>Improved Pigs</i>	100
6	<i>Local Poultry</i>	820
7	<i>Improved Poultry</i>	100
	<i>Total</i>	3442

2 Gewog Plan Outlay

Nu. in million

S.#	Sectors	Rec.	Cap.	Tot.	Remarks
1	Agriculture Program	0.000	8.335	8.335	
2	Livestock Program	0.000	0.481	0.481	
3	Forestry Program	0.000	0.140	0.140	
4	Education Program	0.000	3.440	3.440	
5	Health Program	0.000	1.846	1.846	
6	Suspension Bridge & Mule Track Program	0.000	1.030	1.030	
7	Geog Administration Program	0.370	1.130	1.500	
	Geog Grand Total	0.370	16.402	16.772	

3 Gewog Development Programs

Agriculture Programs

a) Cereal Crop Development Program

The people of Tomzhangtshen Geog has identified rice, wheat and maize as priority cereal crops for their Geog during the Ninth Plan. Accordingly, the government shall provide farmers training, conduct demonstration and trials, observe field days and supply improved varieties of seeds for enhancing and improving the production of these cereal crops.

b) Horticulture Development Program

The people of Tomzhangtshen Geog has identified orange, vegetable, mushroom, asparagus and apiculture as priority cash crops for their Geog during the Ninth Plan. In order to improve the production of these crops, the government shall be requested to provide farmers training on horticulture development and management, conduct demonstration and trials and provide improved varieties of seed and seedlings.

c) Construction of irrigation channels

Tomzhangtshen Geog has good potential to bring more land under wetland cultivation. Therefore, during the Ninth plan about four new irrigation channel is proposed to be constructed at Lundari (6 Km) with 120 households and a command area of about 400 acres, Pempaling (4 Km) with 23 households and a command area of 25 acres, Manchu (3 Km) with 30 households and command area of around 10 acres and Bepachu (1Km) with 20 households and 12 acres of land.

d) Renovation of irrigation channels

About six kilometer of existing channels shall be improved at Changmadung, Manchu and Mantechu. Changmadung channel serves 125 households with 125 acres. The canal is 3.4 KM long. Manchu channel serves 30 households with 15 acres of wetland and is two kilometer long. Manteychu serves 20 households, has only seven acres at present and it is only half KM long. It has potential to add another five acres if the renovation is supported by government.

e) Construction of Farm Road

Construction of World Bank loan funded rural access road from Kurlung to Nyagardzong at Tomzhangtshen will be started within the financial year 2001-02. The People of Pang, Toka and Tokaphu would like to extend it as farm road till Tokaphu and Thruachu Gonpa. The total length is expected to be around 10 KM. This will benefit 15 villages and around 250 households.

f) Farm machinery

The people of Tomzhangtshen Geog has requested for supply of two tractors, three power tillers, eight paddy threshers, five flourmills and two potato chips making machines. Financial support would be necessary from the BDFC.

g) Institutional Capacity building program

The women participants of the Geog during the Ninth Plan formulation exercise expressed their interest to learn weaving and supplement the household income. The Dzongkhag intends to send them for training to Khaling where the cost will be borne by NWAB. However, it is essential to make them form a weaving association and train them in simple banking and book keeping.

h) Barbed Wire Fencing of RNR Center

The RNR center at Tongzang Shakpa shall be fenced with barbed wire during the Plan period.

Livestock Programs

a) General activities under the RNR Sector

Under Agriculture and Livestock Sector the extension agents posted in the fields shall continue to learn about new seed varieties, new cultivation technologies and farming practices which shall be passed on to the farmers through demonstration, promotion program, and exhibitions. The farming inputs such as improved seeds, fertilizers, pesticides, tools and farming machinery shall continue to be supplied on payment through the commission agents. The breeding animals shall be made available on full payment or subsidy (as may be decided by the Government) to farmers. The cost of transportation of breeding animals till the nearest road point shall be borne by the government through the concerned sector.

The RNR Sector shall continue to provide training to progressive farmers in farming technologies, pest management, livestock (backyard units) rearing and take them to in-country study tour to show the examples of successful farming and livestock rearing ventures. The treatment of sick animals and providing preventive medication/vaccination will continue to be provided as in the past. The Bhutan Development Finance Corporation (BDFC), through its outlet in the Dzongkhag, shall continue to make credit available for all farming related credit needs of the farmers.

Forestry Programs

a) Community Forestry plantations

The Geog has a target of creating 20 acres of community forestry. The Dzongkhag Forestry Extension Sector shall conduct the survey of possible community plantation area, identify and mobilize the stakeholder community for community plantations. A minimum of 10 households with 10 acres or more shall be eligible to get government support for community plantation. Two possible sites shall be identified and fenced with barbed wire through this provision.

At least 13,600 seedlings shall be raised and distributed for the community plantation. The Forestry Sector shall assist the community(ies) in planning, planting, weeding and general management of the plantations.

b) Supply of fodder tree seedlings

During the winter the farmers face hardship of finding fodder for their cattle and the milk production drastically reduces. They do not have plenty of wetland for stocking paddy straw. As per their demand Dzongkhag Forestry Sector shall raise and supply at least 5000 seedlings of ficus species for raising fodder trees.

Education Programs

a) Establishment of new Community Schools

In the Ninth Plan, three new community schools have been proposed at Bainangkhar, Changmadung and Pang to bring the educational facilities closer to the community for better coverage and to meet UPE by 2007. The schools will benefit more than 200 households in the Geog.

Health Programs

a) Construction of ORC Sheds

Two ORCs are proposed to be constructed at Changmadung and Bainangkhar villages during the Ninth Plan. The beneficiaries shall contribute unskilled labour and the Dzongkhag shall be requested to provide roofing materials and wages for skilled labour.

b) Renovation of ORC sheds

The Out Reach Clinic sheds of Tokaphu and Pang will be renovated by the respective communities during the Ninth Plan.

c) Construction of Rural Water Supply Schemes (RWSS)

The Geog has proposed four new drinking water supply schemes at Memung, Dukulung, Marshing, and Pang Toka villages during the Ninth Plan. The beneficiaries shall contribute unskilled labour and the Dzongkhag shall provide materials and skilled labour.

d) Rehabilitation of RWSS

Nine existing RWSS at Pangthang/Kuenzangling, Changmadung, Bainangkhar, Lhaushing, Brongkashing, Manchu, Wookhar, Pang and Tongzang Primary School shall be rehabilitated to provide reliable safe drinking water supply to the people.

Suspension Bridge and Mule Track Programs

a) Construction of Suspension Bridge

A new bridge to be called Barlamzam is proposed for construction during the Ninth Plan. The beneficiaries will contribute the unskilled labour and the government will provide technical supervision, skilled labour and materials.

b) *Improvement of Mule Tracks*

About 15 Km of existing mule track shall be improved by realigning and width expansion to make it user friendly.

Gewog Administration Programs

a) *Strengthening of Gup's Office*

As the Tomzhangtshen Geog does not have a proper office for the Gup to carry out developmental and administrative works, the people of the Geog has proposed to construct Gup's Office as priority during the Ninth Plan..

4 Budget Estimate

Nu. in million

Sl. #	Activities	Unit	Target	Budget			Remarks
				Rec.	Cap.	Total	
1	Crop Improvement Program						
A	Rice Development Activities :						
a	Farmers Training	HH	100	0.000	0.008	0.008	
b	Supply of Improved seed	Kg.	1,000	0.000	0.080	0.080	
c	Demonstration & Field Days	No.	5	0.000	0.025	0.025	
d	Field Day	No.	3	0.000	0.015	0.015	
e	On-farm-Trial	No.	4	0.000	0.016	0.016	
	Sub-total			0.000	0.144	0.144	
B	Maize Development Activities:						
a	Farmers Training	HH	100	0.000	0.020	0.020	
b	Supply of Improved seed	Kg.	1,000	0.000	0.009	0.009	
c	Demonstration	No.	4	0.000	0.020	0.020	
d	Field Day	No.	2	0.000	0.010	0.010	
e	On-Farm-Trial	No.	4	0.000	0.016	0.016	
	Sub-total			0.000	0.075	0.075	
C	Wheat Improvement Activities:						
a	Farmers Training	HH	50	0.000	0.010	0.010	
b	Demonstration	No.	2	0.000	0.010	0.010	
c	Field Day	No.	2	0.000	0.010	0.010	
d	Supply of Improved Seed	Kg.	1,000	0.000	0.024	0.024	
e	On-farm-Trial	No.	2	0.000	0.008	0.008	
	Sub-total			0.000	0.062	0.062	
2	Horticulture Development						
A	Orange Development Activities:						
a	Farmers Training	HH	50	0.000	0.010	0.010	
b	Supply of Seedlings	No.	5,000	0.000	0.130	0.130	

c	Demonstration	No.	3	0.000	0.050	0.050	
	Sub-total			0.000	0.140	0.140	
3	Asparagus Dev. Activities:						
a	Farmers Training	HH	50	0.000	0.010	0.010	
b	Supply of Seedling	No.	5,000	0.000	0.010	0.010	
c	Demonstration	No.	4	0.000	0.020	0.020	
d	Field Day	No.	3	0.000	0.015	0.015	
e	On-Farm-Trial	No.	8	0.000	0.032	0.032	
	Sub-total			0.000	0.087	0.087	
4	Mushroom Dev. Activities:						
a	Farmers Training	HH	50	0.000	0.010	0.010	
b	Supply of Seedling	No.	3,000	0.000	0.750	0.750	
c	Demonstration	No.	2	0.000	0.010	0.010	
d	Field Day	No.	2	0.000	0.010	0.010	
	Sub-total			0.000	0.780	0.780	
5	Apiculture Dev. Activities:						
a	Farmers Training	HH	10	0.000	0.001	0.001	
	Sub-total			0.000	0.001	0.001	
6	Kitchen Garden Activities:						
a	Farmers Training	HH	100	0.000	0.020	0.020	
b	Supply of Seeds	Pkts.	5,000	0.000	0.015	0.015	
c	Demonstration	No.	3	0.000	0.015	0.015	
d	Vegetable Show	No.	2	0.000	0.070	0.070	
	Sub-total			0.000	0.120	0.120	
7	Farmers Study Tour on Agriculture	No.		0.000	0.000	0.000	With Livestock
	Sub-total			0.000	0.000	0.000	
8	Irrigation Development Program:						
a	Construction of new Irrigation Channel	Km	14	0.000	3.500	3.500	
b	Renovation of old Irrigation Channel	Km	6	0.000	0.900	0.900	
	Sub-total			0.000	4.400	4.400	
9	Construction of Farm Roads	Km	10	0.000	2.500	2.500	
	Sub-total			0.000	2.500	2.500	
10	Farmer's Associations						
a	Crop Protection Group	No.	1	0.000	0.010	0.010	
b	Weaving Association	No.	1	0.000	0.010	0.010	
c	Farmers Training	HH	30	0.000	0.006	0.006	
	Sub-total			0.000	0.026	0.026	

	Agriculture Total			0.000	8.335	8.335	
11	Livestock Breed Improvement Activities :						
a	Supply of Brown Swiss Bulls	No.	2	0.000	0.042	0.042	
b	Supply of Donkey	No.	1	0.000	0.009	0.009	
	Sub-total			0.000	0.051	0.051	
12	Animal Health Program :						
a	Vaccination, Deworming, clinical cases, sterilization, etc.			0.000	0.150	0.150	
	Sub-total			0.000	0.150	0.150	
13	Farmers Study Tour	No.		0.000	0.160	0.160	
	Sub-total			0.000	0.160	0.160	
14	Farmers Training	No.		0.000	0.100	0.100	Training on Poultry, Piggery & Dairy Management.
	Sub-total			0.000	0.100	0.100	
15	Pasture & Fodder Dev.						
a	Fodder Development			0.000	0.010	0.010	
b	Supply of Fodder Tree Seedling	No.	800	0.000	0.010	0.010	
	Sub-total			0.000	0.020	0.020	
16	Establishment of Backyard Farms			0.000	0.000	0.000	Poultry, Piggery & Dairy Farms.
	Sub-total			0.000	0.000	0.000	
	Livestock Total			0.000	0.481	0.481	
17	Creation of Community Forest	Acre	20	0.000	0.140	0.140	
	Sub-total			0.000	0.140	0.140	
	Forestry Total			0.000	0.140	0.140	
18	Construction of Pang new Community School						
a	Academic Block	No.	1	0.000	0.300	0.300	
b	Two-Unit Teachers Quarter	Unit	2	0.000	0.200	0.200	
c	Furniture & Office Equipment			0.000	0.080	0.080	
d	Purchase of Library			0.000	0.200	0.200	
e	Water Supply	No.	1	0.000	0.200	0.200	
f	Library & Store room	No.	1	0.000	0.200	0.200	
	Sub-total			0.000	1.180	1.180	
19	Construction of Changma-dung new Community School						
a	Academic Block	No.	1	0.000	0.300	0.300	
b	Two-Unit Teachers Quarter	Unit	2	0.000	0.200	0.200	

c	Furniture & Office Equipment			0.000	0.080	0.080	
d	Purchase of Library			0.000	0.200	0.200	
e	Water Supply	No.	1	0.000	0.200	0.200	
f	Library & Store room	No.	1	0.000	0.200	0.200	
	Sub-total			0.000	1.180	1.180	
20	Construction of Bainangkhar new Community School						
a	Water Supply	No.	1	0.000	0.100	0.100	
b	Purchase of Library			0.000	0.200	0.200	
c	Academic Block	No.	1	0.000	0.300	0.300	
d	Two-Unit Teachers Quarter	Unit	2	0.000	0.200	0.200	
e	Furniture & Office Equipment			0.000	0.080	0.080	
f	Library & Store room	No.	1	0.000	0.200	0.200	
	Sub-total			0.000	1.080	1.080	
	Education Total			0.000	3.440	3.440	
21	Health Activities:						
a	Construction of ORC	No.	2	0.000	0.220	0.220	
b	Constn. Of new Rural Water Supply Schemes (RWSS)	No.	4	0.000	0.528	0.528	
c	Rehabilitation of RWSS	No.	9	0.000	1.098	1.098	
	Health Total			0.000	1.846	1.846	
22	Suspension Bridge Program:						
a	Constn. of new S'pension Bridge	No.	1	0.000	0.955	0.955	Barlamzam
	Sub-total			0.000	0.955	0.955	
23	Mule Track Program:						
a	Maintenance of Mule Track	Km	15	0.000	0.075	0.075	
	Sub-total			0.000	0.075	0.075	
	Suspension Bridge & Mule Track Total			0.000	1.030	1.030	
24	Geog Administration Program:						
a	Construction of Gup's Office	No.	1	0.000	1.000	1.000	Dzongkha Typewriter
b	Office Equipment			0.000	0.030	0.030	
c	Office Stationery			0.050	0.000	0.050	
d	Furniture			0.000	0.100	0.100	
e	GYT Expenses			0.050	0.000	0.050	
f	Establishment Cost			0.270	0.000	0.270	
	Geog Adm. Total			0.370	1.130	1.500	
	Geog Grand Total			0.370	16.402	16.772	

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 Geog. 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 Geog Administration for the implementation of the planned activities are also enshrined in the GYT *Chathrim* 2002.

Plan implementation

The Gup, GYT *Tshopas* and the community as a whole will take on full accountability and ownership of geog development activities. The clear delineation of implementation time frames, responsibilities and contributions from the community should be developed for the effective implementation of geog 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 geog 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 geog 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 Geog 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 Geog 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 geog so that the performance of the Geog staff can be monitored.

Evaluation

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