

NINTH PLAN (2002-2007)



GASA DZONGKHAG
ROYAL GOVERNMENT OF BHUTAN

Table of Contents

1.	CURRENT SITUATION.....	1
2.	SUMMARY OF GEWOG PLAN OUTLAY	1
3.	GEWOG DEVELOPMENT PROGRAMS	2
	AGRICULTURE PROGRAMS	2
	LIVESTOCK PROGRAMS	4
	FORESTRY PROGRAMS	6
	EDUCATION PROGRAMS	6
	HEALTH PROGRAMS	6
	ROADS PROGRAMS	7
	GEWOG ADMINISTRATION AND MANAGEMENT	7
4.	BUDGET ESTIMATES.....	8
5.	PLAN IMPLEMENTATION, MONITORING AND EVALUATION	10
	PLAN IMPLEMENTATION	11
	MONITORING AND EVALUATION	11

1. CURRENT SITUATION

Goenkhamae Gewog is located in the southern part of Gasa Dzongkhag and is one of the smallest of the four Gewogs in the Dzongkhag. There are about 75 households living in the gewog.

The gewog has a cool temperate climate, with altitudes ranging from 3,000 to over 6,000 feet above sea level.

The soil types found in the Gewog are sandy clay, clay, loam, sandy loam and clay loam. Generally, soil fertility and moisture conditions are good for cropping. The Gewog has about 142 acres of wetland, 134 acres of dry land and 471 acres of pastureland.

The topography of the Gewog ranges from high mountains and dense forest, Mochu is the main river that flows through the Gewog. It is also a takin habitat area during winter. The agricultural landholding in the Gewog can be categorized as marginal landholding.

The gewog has a RNR centre, one each of Livestock and Agriculture Extension Centre, two ORCs, a Primary School, 18 RWSSs, 71 sanitation facilities and JDNP headquarters.

Harsh climatic condition during winter and long summer with mild rainfall are the main barrier for carrying out agriculture and socio-economic development in the Gewog. Depredation on domestic animals is another challenge for bringing out livestock development. Low population, absence of motorable road, limited landholdings are the challenges faced by the community. Goenkhamae Gewog has better cultivable land holding compared to other three Gewogs of the Dzongkhag.

The alternative mode of earning livelihood at present is portage for the developmental activities and tourists during the tourist season. Even though Gasa Tshachu is located at Goenkhatoe Gewog, the Dzongkhag has entrusted the community of three Gewogs to develop, maintain and collect nominal fees, which will be used for the Gewog development activities. Construction of motorable road, which started during the 8th Plan is in progress. Absence of hydroelectricity is yet another constraint faced by the people. Inaccessibility to market for any local products is a barrier that does not provide to produce for commercial purpose. Constructions of farm roads and telecommunication network, electrification of villages and provision of support for rural livelihood programmes are some of the major programmes which the communities have included in the plan.

2. SUMMARY OF GEWOG PLAN OUTLAY

Sl.No.	Programme / Activity	Outlay	Remarks
1	Agriculture	2.961	
2	Animal Husbandry	0.477	
3	Forest	0.220	
4	Education	0.225	
5	Health	1.039	
6	Roads	0.250	
7	Gewog Administration & management	0.898	
	Total	6.070	

3. GEWOG DEVELOPMENT PROGRAMMES

Agriculture Programmes

Paddy Programme (0.023 m)

The Gewog has 141.56 acres of registered wetland and produces bumper harvest. In order to encourage the farmers on the paddy cultivation in the Gewog, the programmes proposed are training of 50 farmers, promotional programme for two and half acres, field demonstration at five places and awarding prizes to three outstanding farmers.

Wheat Programme (0.018 m)

The community has carried out cultivation of wheat, barley, buckwheat and other dry land crops. In order to acquaint the farmers with the modern technology and technical know how, the Agriculture Sector will be facilitating farmers training to 20 farmers, carry out promotional programmes for two and half acres, five numbers of demonstrations and awards to two outstanding farmers.

Mustard Programme (0.027 m)

The Gewog has a great potential for the cultivation of mustard, but due to inaccessibility to market and wild life destruction, the cultivation is carried out limited only. In order to encourage the farmers for large production for both home consumption and sale, the sector has proposed training for 15 farmers, two and half acres for promotional programme, five plots for demonstration and awards to two farmers.

Walnut Programme (0.027 m)

The wild walnut is found in abundance in Goenkhamae Gewog. However, the improved variety is not introduced in the Gewog so far. During the Ninth Plan, improved variety of walnut shall be encouraged with the following activities in the Gewog, viz., training of 30 interested farmers, promotional programme in two and half acres of farmers' plots, two numbers of demonstration and awards for two farmers.

Peach Programme (0.027 m)

The Gewog has potential for most of the horticulture products. Peach is grown by every household for their consumption. Once the construction of motorable road is completed till Damji/Gasa, the Gewog will have opportunity to grow for sale outside the Dzongkhag to earn cash income. Based upon this future scope, the Gewog has proposed 25 farmers training, 2 acres of promotional programme, two private plots for demonstration and two awards for the farmers.

Apricot Programme (0.026 m)

The Gewog also has potential for growing apricot. This programme is a new one to be introduced in the Gewog. Once the motorable road is constructed till Gasa, the Gewog will have great scope for sale of surplus production. Based upon this future scope, the Gewog has proposed 12 farmers training, two acres of promotional programme, two numbers of private plots for demonstration and three awards for the outstanding farmers.

Pear Programme (0.026 m)

Pear is grown by some households in the gewog. The reason may be due to lack of marketing facilities in the Dzongkhag. Once, the motorable road is constructed, the Gewog has potential for large-scale production of pears. Therefore, the sector has proposed 13 farmers to be trained or taken on study tour, an acre of land for promotional programme, five numbers of demonstrations and three farmers to be awarded.

Asparagus Programme (0.051 m)

Based upon the suitable soil and climatic conditions, the Gewog can pursue asparagus cultivation. It has high protein for consumption as well as high value on sale and further highly demanded. Trials and demonstrations were carried out and farmers were taken on study tour to other Dzongkhags to observe the benefit and farm practices. Few households have already carried out trials and the result is promising. Therefore, in the Ninth Plan, additional 10 farmers will be trained and will be taken for study tour to the Dzongkhag where asparagus is popular; an acre of land for promotional programmes will be kept; five plots of demonstration will be shown and 26 farmers will be awarded.

Mushroom Programme (0.035 m)

Like asparagus, mushroom has also the potential with the favourable climatic conditions and soil type in the Gewog. Trials and demonstrations were conducted at Goenkhamae Gewog in the Eighth Plan. The yield is encouraging, but due to transportation problem for marketing, the programme has not gained momentum in the past. It is now felt that, with the road coming up, farmers will be interested to pursue the mushroom programme. Further, there are large varieties of wild mushroom in the forest, but the edibility is unknown. Under mushroom programme, training of 10 farmers, 10 numbers of demonstrations and awards to five farmers are proposed in the plan period.

Vegetable Programme (0.042 m)

The Dzongkhag being under JDNP has lot of wild animals which prey on domestic animals and destroy farm crops. Mostly, wild boar and deer destroy vegetables. In the past, farmers were cultivating limited kitchen garden for home consumption and to prevent from the wild life attack. With the continuous effort made by the extension staff, vegetables like cabbage, cauliflower, tomato, radish, carrot, onion, beans, potato and many others are grown for home consumption as well as for sale. The programme shall be further encouraged with training of 50 farmers, demonstration in five plots, promotional programme in two and half acres of land and awarding to two farmers in the Ninth Plan.

Farm Road Construction (1.000 m)

Goenkhamae Gewog is the only Gewog in the Dzongkhag where motorable road is under construction from Tarshithang to Damji in the Eighth Plan and expected to continue till Gasa in the Ninth Plan. The Gewog has proposed to construct five kilometres of farm road from the road head to Khailo and four kilometres of farm road from Bjeshong (road head) to Jabesha during the Ninth Plan. Some of the community has already procured farm machinery like tractor for farm mechanisation.

Farm Mechanisation and Agriculture Inputs

The Gewog has an increasing demand of agriculture inputs. During the Ninth Plan the communities have proposed to procure the following agriculture inputs, tools and implements including five power tillers. The inputs shall be supplied to the farmers on cash and carry system.

Agriculture inputs:

Paddy seed	-	150 Kg
Wheat seed	-	1000 Kg
Potato seed	-	5750 Kg
Orange seedlings	-	133 nos.
seedlings	-	900 nos.
Vegetable seed	-	15 Kg.
Punch/Butachlor	-	1275 Kg
Fertiliser	-	450 Kg..

Tools & machinery

Power tiller	-	5 no.
Wheat thresher	-	1 no.
Paddle thresher	-	3 nos.
Sprayer	-	5nos. Walnut
Paddy transplanter	-	2 nos.

Renovation of Irrigation Channel (1.650 m)

The Gewog has potential for wetland cultivation, and the people have been cultivating paddy for many years. In the earlier plans, irrigation channels were constructed for the command area of 137.54 acres. The total length of the present five irrigation channels is 10.800 Km. There is a need to renovate the defunct channels in the next plan period. Therefore, four irrigation channels are earmarked for the renovation.

Livestock Programmes

Dairy Development Programme

Having the potential for livestock rearing in the Gewog and with the coming up of the motorable road, two entrepreneurs have submitted the proposal to set up two dairy farms in the Ninth Plan. The programme shall be implemented fully at the owner's cost but the sector shall support by providing technical advises and backstopping.

Breed Improvement (0.102 m)

Goenkhamae Gewog is having 471 acres of registered grazing land. However, the Gewog has vast area of natural pasture that has great scope for the livestock rearing. As per the need and demand of the community, sale of one Nublang bull for Khailo village, supply of one Brown swiss bull and one Jersey cross bulls are proposed in the plan. Further, introduction of artificial insemination to 150 Jersey and 150 Mithun cows are proposed during the plan. Also contract bull keeping allowance for 15 numbers and allowance for 50 progeny born are the target set up for the plan period.

Feed and Fodder Development (0.096 m)

In order to support the livestock rearing, pasture development was carried out extensively from the Eighth Plan. This prevents the domestic animals from wild life depredation and provides additional nutrition during dry seasons for the cattle. Therefore, in the Ninth Plan pasture development of three and half acres, supply of fertiliser for 25 acres of pastureland and five households will be trained on fodder conservation. Further 1,000 fodder seedlings will be distributed free of cost to the farmers.

Poultry Production Programme

Prior to the Eighth Plan the communities were reluctant to rear poultry birds due to religious faith. However, from the Eighth Plan the livestock sector has initiated the supply of poultry birds and people found the birds quite profitable and easy to rear. As such, the Gewog people have submitted for supply of 1,500 poultry birds on cash and carry system.

Piggery Production Programme

Due to religious sentiments, the Dzongkhag faces similar problem for Piggery production programme. However, with the continuous effort of livestock sector, some community has come forward with demand of 59 piglets, which will be supplied on cash and carry system.

Animal Health Programme (0.200 m)

Vaccination, deworming and clinical treatment shall be continued against livestock diseases in the plan period. 2,000 vaccinations, 4,000 dewormings and clinical treatments are proposed for the plan.

Extension Support Programme (0.079 m)

Like in the past, extension support programmes to the farmers shall be continued. Livestock shows, Field/Demonstration day, Farmers training and Farmers study tour have great impact on the farmers for the livestock development. The selected farmers with good prospects are given the opportunity to attain training and study tour. On their return to their village, the participants will be able to implement the relevant livestock development programmes. As such, one livestock show on improved breed, one Field/Demonstration Day, 72 Farmers shall be trained on improved livestock management system.

Forestry Programmes

Community Plantation (0.120 m)

The programme aims to transfer the responsibility for management of forest resources to the community to reduce pressure on the government reserve forest. The other objective is also to involve the community to participate in sustainable forest management and educate them about nature conservation to the local communities and protect the watershed areas in the respective villages. Six acres of land shall be converted into community forest. The programme shall be supported with other activities in the Gewog.

Farmers Training and Study Tour (0.065 m)

Like in other sectors, Forestry sector has kept provision for 25 farmers training during the Ninth Plan. This programme is expected to motivate the farmers by creating awareness of Forest & Nature Conservation Rules and enhancing knowledge on Forest management, which are important steps in the Forestry Extension Programme.

Construction of Fire Line (0.015 m)

The forest fire breaks frequently during dry season thus causing heavy loss to the Community/Government. As a preventive measure, Gewog has proposed five kilometres of fire line during the Ninth Plan.

Supply of Seedlings (0.020 m)

With the proposal of establishing nine acres of community plantation, it is proposed that 5,000 seedlings of different species shall be distributed for free by the government. The community has already identified the species that will provide good return in the future.

Education Programmes

Supply of Five Solar sets to Damji Community School (0.225 m)

During the Ninth Plan, the Education Department plans to supply 5 Solar sets to Damji Community School at a cost of Nu. 0.225 million.

Health Programmes

New Construction of RWSS (0.660 m)

To providing safe drinking water to the communities, five water supply schemes at Tongmu, Khaidangra, Churapakha, Chashungpa and Zomina villages are proposed during the Ninth Plan.

Rehabilitation of Rural Water Supply Scheme (0.366 m)

Out of 18 Water Supply Schemes constructed till Eighth Plan period, about 10 communities have submitted for the rehabilitation. On site visit by the Dzongkhag officials during Ninth Plan preparation, three schemes were found to require government assistance for rehabilitation and the rest can be carried out by the communities themselves. Therefore, the schemes at Jabesha, Yemina and Damji shall be rehabilitated during the Ninth Plan with government assistance.

Spring Protection (0.013 m)

One spring protection scheme at Zomina village under Khamae gewog shall be carried out during the Ninth Plan since the villages depend solely on this spring for their drinking water supply.

Roads Programmes

Maintenance of Mule Tracks (0.200 m)

During the Ninth Plan, about 30 Km of mule track maintenance has to be carried out and these include mule tracks from Damji to Chortengoenpa (7 Km), Panikong to Tshechudra (1.5 Km), Kukuna to Khailo (2 Km), Tarshithang to Khailo (2 Km) and Gathana to Domeypangchu (17 Km).

Maintenance of Suspension bridge (0.050 m)

The Gewog at present has only one suspension bridge; Geyza zam (24 meter) over Lingpana chhu. It is on the main route from Goenkhamae Gewog to Goenkhatoe, Laya, Lunana and Lhingtsi. Thousands of pedestrians and horses/mules travel through this bridge every month. Due to continuous rainfall during summer and the timber used being softwood, the bridge has to be maintained annually for the safety of the pedestrians as well as for the mules. Therefore, maintenance of Geyza zam has been kept under provision in the Ninth Plan. The bridge will benefit 440 households.

Gewog Administration and Management

Construction of Gup's office (0.600 m)

So far the Gewog do not have Gup's office to run his day-to-day administrative works. With the implementation of the Gewog based plan, the Gup will have numerous activities to be taken up in the Ninth Plan. The Dzongkhag has already trained Gups and Gups' clerks on book keeping, file management, and receiving and despatching letters. Therefore, the Gewog has proposed to construct a Gup's office during the coming plan period.

5. BUDGET ESTIMATE

Sl. No.	Programme/ Activity	Unit	Target	Budget			Remarks
				Current	Capital	Total	
1	Paddy Programme						
	a. Farmers training	Nos.	30		0.010	0.010	
	b. Promotional	Acres	2.5		0.005	0.005	
	c. Demonstration	Nos.	5		0.005	0.005	
2	Wheat Programme						
	d. Awards	Nos.	3		0.003	0.003	
	a. Farmers Training	Nos.	24		0.010	0.010	
	b. Promotional	Acres	2.5		0.005	0.005	
	c. Demonstration	Nos.	5		0.010	0.01	
3	Mustard Programme						
	d. Awards	Nos.	2		0.002	0.002	
	a. Farmers Training	Nos.	15		0.010	0.010	
	b. Promotional	Acres	2.5		0.005	0.005	
	c. Demonstration	Nos.	5		0.010	0.010	
4	Walnut Programme						
	d. Awards	Nos.	2		0.002	0.002	
	a. Farmers Training	Nos.	25		0.010	0.010	
	b. Promotional	Acres	2.5		0.005	0.005	
	c. Demonstration	Nos.	2		0.010	0.010	
5	Peach Programme						
	d. Awards	Nos.	2		0.002	0.002	
	a. Farmers Training	Nos.	25		0.010	0.010	
	b. Promotional	Acres	2		0.005	0.005	
	d. Demonstration	Nos.	2		0.010	0.010	
6	Apricot Programme						
	d. Awards	Nos.	2		0.002	0.002	
	a. Farmers Training	Nos.	13		0.009	0.009	
	b. Promotional	Acres	2		0.004	0.004	
	e. Demonstration	Nos.	2		0.010	0.010	
7	Pear Programme						
	d. Awards	Nos.	3		0.003	0.003	
	a. Farmers Training	Nos.	13		0.009	0.009	
	b. Promotional	Acres	2		0.004	0.004	
	c. Demonstration	Nos.	3		0.010	0.010	
8	Asparagus Programme						
	d. Awards	Nos.	3		0.003	0.003	

	a. Farmers Training	Nos.	9		0.010	0.010	
	b. Promotional	Acre	1		0.005	0.005	
	c. Demonstration	Nos.	5		0.010	0.010	
9	d. Awards	Nos.	26		0.026	0.026	
	Mushroom Programme						
	a. Farmers Training	Nos.	10		0.010	0.010	
	b. Demonstration	Nos.	10		0.020	0.020	
10	c. Awards	Nos.	5		0.005	0.005	
	Vegetable Programme						
	a. Farmers Training	Nos.	50		0.020	0.020	
	b. Promotional	Acre	2.5		0.010	0.010	
	c. Demonstration	Nos.	5		0.010	0.010	
11	d. Awards	Nos.	2		0.002	0.002	
	Renovation of irri. Channel						
	a. Yangcho Luma	No.	1		0.450	0.450	
	b. Bashsa / Yemina	No.	1		0.400	0.400	
	c. Panikong	No.	1		0.400	0.400	
	d. Zomina	No.	1		0.400	0.400	
12	Farm road construction	Km	9		1.000	1.000	
13	Backyard unit	Nos.	2				Private
14	Breed Improvement						On cash
	a. Nublang bull	No.	1				
	b. Artificial insemination						
	i) Jersey	No.	150		0.038	0.038	
	ii) Mithun	No.	150		0.037	0.037	
	e. Contract Bull keeping all.	No.	15		0.017	0.017	
15	f. Progeny born allowance	No.	50		0.010	0.010	
	Feed / Fodder Development						
	a. Pasture development	Acre	3.5		0.010	0.010	
	b. Supply of fertiliser	Acre	25		0.063	0.063	
	c. Fodder conservation	Hhs	5		0.005	0.005	
16	d. Fodder trees seedling dist.	Nos.	1000		0.018	0.018	
	Poultry Prod. Programme.						
	a. Backyard unit						
17	b. Sale of pullets	No.	1500				On cash
	Piggery Prod. Programme						
18	a. Sale of piglets	No.	59				On cash
	Animal Health Programme						
	a. Vaccination	No.	2000		0.070	0.070	
	b. Deworming	No.	4000		0.070	0.070	
	c. Clinical treatment	No.	5000		0.060	0.060	

19	Livestock support Prog.						
	a. Livestock/Cattle show	No.	1		0.050	0.050	
	b. Field/demonstration day	No.	1		0.004	0.004	
	c. Farmers training	No.	72		0.025	0.025	
20	Community plantation	Acre	6		0.120	0.120	
21	Farmers training & study tour	Nos	25		0.065	0.065	
22	Fire line	Km	5		0.015	0.015	
23	Supply of seedlings	Nos	5000		0.020	0.020	
24	Supply of 5 Solar sets to Damji CS	No	5		0.225	0.225	
24	New const. of RWSS						
	a. Tongmu	No.	1		0.132	0.132	
	b. Khaidangra	No.	1		0.132	0.132	
	c. Churapakha	No.	1		0.132	0.132	
	d. Chashukha	No.	1		0.132	0.132	
25	Rehabilitation of RWSS						
	e. Zomina	No.	1		0.132	0.132	
	a. Jabesa	No.	1		0.122	0.122	
	b. Yemina	No.	1		0.122	0.122	
26	Spring protection						
	c. Damji	No.	1		0.122	0.122	
27	Maintenance of mule track.						
	a. Zomina	No.	1		0.013	0.013	
	a. Damji to Chortengoenpa	Km.	4		0.050	0.050	
	b. Panikong to Tshechudra	Km.	4		0.050	0.050	
	c. Kukuna to Khailo	Km.	4		0.050	0.050	
28	Maint. Of suspension bridge						
	d. Gathana to Domeypangchu	Km.	20		0.050	0.050	
	a. Gayza Zam	No.	1		0.050	0.050	
29	Construction of Gup's office	No.	1		0.600	0.600	
30	Gewog's establishment cost			0.298		0.298	
Total				0.298	5.772	6.070	

6. 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.