

MENDRELGANG GEWOG
NINTH PLAN
(2002-2007)



TSIRANG DZONGKHAG
ROYAL GOVERNMENT OF BHUTAN

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1. CURRENT SITUATION

Mendrelgang Gewog has an area of 15.5 sq.km with an elevation ranging from 700 to 1,900 meters above sea level. The gewog consist of six villages viz. Mendrelgang, Reserboo, Tashipang, Samshing Gadhen, Pemashong and Zomlingzor with 226 households. A 22 km feeder road provides access to most of the villages in the gewog.

Wetland and dryland constitute dominant agricultural land use in the gewog. The principal crops grown are maize, paddy and wheat. Oranges and cardamom are the major cash crops.

The gewog has good piped water supply coverage with a total of 11 rural water supply schemes. A Community School provides education while health services are availed from a BHU in the gewog or from the hospital in Damphu. Agriculture and livestock extension services are availed from the RNR sector in dzongkhag headquarter, as there is no extension centre neither in the gewog nor in the nearby gewogs. The gewog has no electricity connections.

2. SUMMARY OF GEWOG PLAN OUTLAY

In. Nu. Millions

Sl.#	Programs	Current	Capital	Total	Remarks
1	Gewog Administration and Management	0.270	0.958	1.228	Including establishment cost.
2	Agriculture		2.091	2.091	
3	Livestock		0.125	0.125	
4	Forestry		0.300	0.300	
5	Health		1.885	1.885	
	TOTAL	0.270	5.359	5.629	

3. GEWOG DEVELOPMENT PROGRAMS

Agriculture programs

A RNR center will be constructed in the gewog to facilitate effective RNR extension services to the farmers. The implementation and the budget for the construction will be with the Dzongkhag agriculture sector.

Crop improvement activities

To enhance the food security situation in the gewog, the farmers identified a number of crops as prioritised crops for development. However, in the Ninth Plan period – maize, paddy and oilseed improvement will receive priority. Accordingly the three sub-programs with the following objectives:

- Increase Rice production
- Increase Maize production
- Increase Oilseed production to reduce import of cooking oil

Production targets have been fixed taking into account farmers expressed needs, the present level of farmers knowledge in crop management, production potential of the land, acreage of cultivated land and high yielding varieties in some crops.

To improve the production of these crops, the following activities will be taken up during the Ninth Plan:

- Farmers training
- Demonstrations
- On-farm trials
- Field days and
- Supply of improved and high yielding seeds

Promotion of horticulture crops

A number of horticulture crops are identified as priority crops by the farmers based on the potentials for each of the crops to enhance rural incomes.

Accordingly the following sub-programs will be undertaken during the Ninth Plan:

- Mango Production
- Asparagus Production
- Vegetable Production
- Orange production

The specific objectives for the sub-programs will be to:

- Promote the production of mango
- Promote the production of asparagus
- Increase vegetable production and
- Increase orange production and quality

The following activities will be taken up to achieve the above-mentioned objectives:

- Farmers training in crop management,
- Demonstration of new varieties/technologies
- Supply of improved seeds/seedlings

Rural Livelihood support programs

The farmers have identified the following activities as priority rural livelihood support programs for the Ninth Plan:

- Rehabilitation of 10 km irrigation channel in Ratey Kulo, Jurkey Kulo and Tashipang kulo to benefit 33 households;
- Three Put-right schemes measuring a total of 10 km
- Formation/training of WUA in the gewog
- Farm mechanization through the provision of available farm machinery and tools as per demand of farmers.

Farmers study tours

Study tours for farmers will be taken up as institutional and capacity development activities. These study tours are geared towards enabling the farmers to share experiences with other farmers, make them aware of new agricultural farming practices and technology, and to expose them to other demonstrative activities within and outside the dzongkhag to inculcate learning by seeing.

Livestock programs

The priority during the Ninth Plan will be given to cattle development, piggery and poultry husbandry programs as the gewog as potential in the establishment of dairy, poultry and piggery farms. Fish farming can also be undertaken profitably. In keeping with the livestock development activities and to reduce winter fodder scarcity, feed and fodder development will also be emphasized.

Establishment of back-yard farms

To increase income generation sources, the farmers in the gewog will be encouraged to establish small- scale backyard farms. For this the inputs will be procured and supplied to interested farmers at full cost.

During the Ninth Plan, 15 dairy, five poultry and nine fishery backyard farms will be established to meet household livestock product requirements as well as increase incomes.

Livestock development programs

The main emphasis will be given to breed improvement through supply of breeding stock of high genetic make up with an objective to improve local breed of Livestock.

During the Ninth Plan, two Jersey bulls will be procured and supplied as per demand. Further, the distribution of 636 pullets, 123 piglets and 4900 fingerlings will also be supplied as per demand.

Feed and fodder development

To complement the breed improvement activities in the gewog the development of feed and fodder will also be emphasized. Accordingly fodder tree seedlings and fertilizers for pasture development will be supplied and fodder conservation activities taken up during the Ninth Plan.

Animal health services

To make animal health services cost effective and efficient at the gewog level, it is proposed that farmers from five villages will be trained on basic animal health care. Animal health services such as deworming, vaccination, sterilization and general clinical treatment will also be provided as required.

Farmers training and study tour

Under this program, farmers will be trained in different livestock management system with an objective to enhance skills and knowledge of the farmers on improved livestock management.

Selected farmers will be taken on study tours outside the dzongkhag to share experiences and see other demonstrative practices and technology.

Forestry programs

The forest in the gewog is mainly composed of broad-leaf tree species. Among the non-timber the farmers extensively collect forest products such as fencing poles and firewood.

Private Forestry

The main objective of the private forestry is to promote tree planting in private registered land to meet or overcome the shortage of forest produces such as firewood, timber for house construction, etc.

Under this program, eight hectares of private land will be registered as private forest, which will benefit about 58 households in Mendrelgang and Reserboo villages. The Government will distribute the seedlings to the farmers.

Rural Timber supply

The Dzongkhag Forestry sector has the challenging task to supply timber for rural house constructions and repairs in the gewog during the Ninth Plan. This would now form a routine task for the forestry sector along with the allotment of rural fuel wood supply.

Farmers Training and Study Tour

To create awareness on forest and nature conservation act, farmers training will be carried out on Private and Community Forestry establishment and management, dissemination of rules, formalities and procedures on rural house building timber and forest fire management.

Selected farmers will be taken on study tours to other dzongkhags to enhance farmers' knowledge on all related subjects and to share experiences amongst the farmers.

Education programs

There are no education programs for the gewog for the Ninth Plan. The existing Mendrelgang Community Primary School in the gewog provides adequate education coverage.

Health programs

The existing BHU in the gewog, which is presently located on a slope, will be relocated to a site with better scope for expansion. The program has been reflected as part of the Dzongkhag health sector plan.

Health services

Other Input activities such as Control of Diarrhoeal disease, Reproductive Health, STD/AIDS, ARI, VHW refresher and New VHW will also be carried out for effective coverage and delivery of health services in the gewog during the plan.

Drinking Water Supply and related activities

Two new rural water supply schemes will be constructed benefiting 13 households at Zero scheme and Devithan village. Water source activities will be taken up for four schemes at Rinchenchu, Thinleychu, Baksing dhara and Ramten scheme villages.

Gewog Administration Programs

Construction of Gup's office and GYT hall

The roles and responsibilities of the Gup & GYT have increased considerably with the initiation of gewog-based planning in the Dzongkhag. The Gup has to take up many diverse development related activities and responsibilities which require the preparation of documents as well as effective maintenance of records. A Gup's office and GYT hall has become imperative for the conduct of GYT meetings and for the efficient delivery of services. The construction of an office and GYT hall has, therefore, been proposed as a priority activity during the Ninth Plan.

4. Budget Estimates

Sl. #	Program/Activity	Unit	Target	In. Nu. Millions			Remarks
				Rec.	Cap	Total	
1	Gewog Adminis. & Management						
a)	Construction of Gup's office	No	1		0.808	0.808	Labor contribution by public
b)	Telephone connection in Gup's office	No	1				
c)	Purchase of furniture				0.040	0.040	
d)	Purchase of Type writer	No	1		0.010	0.010	
e)	S&M office supplies				0.100	0.100	
f)	Establishment cost			0.270		0.270	
	Total:			0.270	0.958	1.228	
2	Agriculture Activities						
i)	Paddy Improvement						
a)	Farmers training	HH	87		0.017	0.017	
b)	Demonstration	No	10		0.03	0.03	
c)	Field Days	No	3		0.006	0.006	
d)	On farm trail	No	3		0.003	0.003	
e)	Supply of Seeds	Acres	72		0.032	0.032	
	Sub-Total				0.088	0.088	
ii)	Maize Improvement						
a)	Farmers training	HH	84		0.017	0.017	
b)	Demonstration	No	6		0.018	0.018	
c)	Field Days	No	3		0.006	0.006	
d)	On farm trail	No	3		0.003	0.003	

e)	Supply of Seeds	Acres	35		0.010	0.010	
	Sub-Total				0.054	0.054	
iii)	Oil Seed Improvement.						
a)	Farmers training	HH	102		0.020	0.020	
b)	Demonstration	No	6		0.006	0.006	
c)	Field Days	No	3		0.006	0.006	
d)	On farm trail	No	3		0.003	0.003	
e)	Supply of Seeds	Acres	25		0.005	0.005	
	Sub-Total				0.040	0.040	
iv)	Citrus management						
a)	Farmers training	HH	150		0.030	0.030	
b)	Field Day	HH	3		0.006	0.006	
c)	Supply of Seedlings	No					Seedling will be made available as per demand.
	Sub-Total				0.036	0.036	
v)	Vegetable Improvement.						
a)	Farmers training	HH	50		0.010	0.010	
b)	Demonstration	No	3		0.003	0.003	
c)	Field Days	No	3		0.006	0.006	
d)	Supply of Seeds	Acres	10		0.010	0.010	
	Sub-Total				0.029	0.029	
vi)	Mango promotion.						
a)	Farmers training	HH	25		0.005	0.005	
b)	Supply of seedling	Acres	4		0.005	0.005	
	Sub-Total				0.010	0.010	
vii)	Asparagus promotion.						
a)	Farmers training	HH	20		0.004	0.004	
b)	Supply of Seedling	No					Depending on demand
	Sub-Total				0.004	0.004	
viii)	Rural livelihood support program						
a)	Rehabilitation of Irrigation Channel	Km.	10		1.500	1.500	
b)	Put Right Activity	Scheme	3		0.300	0.300	
c)	WUA	Scheme	3		0.030	0.030	
	Sub-total				1.830	1.830	
	Total				2.091	2.091	
3	Livestock Activities						
i)	Livestock Development Program						
a)	Supply of breeding bulls	No	2		0.030	0.030	
b)	Supply of piglets	No	123				Made available as per demand.
c)	Supply of pullets	No	636				demand.

d)	Supply of Fingerlings	No	4900				Made available as per
e)	Supply of fodder seedlings	No	2016		0.010	0.010	Made available as per
f)	Supply of fertilizer	Kg	2000		0.015	0.015	demand.
g)	Supply of Pasture seed	Kg			0.015	0.015	Made available as per
	Sub-Total				0.070	0.070	
ii)	Animal Health Program						
a)	Training of VAHWs	No	5		0.015	0.015	
	Sub-total				0.015	0.015	
iii)	Farmers training on						
a)	Dairy Mgt.	No	1		0.012	0.012	
b)	Poultry Mgt.	No	1		0.012	0.012	
c)	Fishery development.	No	1		0.004	0.004	
d)	Fodder & Pasture Dev.	No	1		0.012	0.012	
	Sub - Total				0.040	0.040	
iv)	Estb.of Backyard Farm.						
a)	Dairy	No.	15				Full cost by farmers.
b)	Poultry	No.	5				Full cost by farmers.
c)	Fishery	No.	9				Full cost by farmers.
	Total				0.125	0.125	
4	Forestry Services						
i)	Private forest						
a)	Distribution of seedlings/Printing of ownership certificate.	Ha.	8		0.050	0.050	
b)	Private Nursery	No	3		0.030	0.030	
	Sub-Total				0.080	0.080	
ii)	Farmers training on:						
a)	Private forestry						
b)	Rural timber Rules	HH	226		0.120	0.120	
c)	Forest fire management.						
d)	Farmers study tour	HH	50		0.100	0.100	
	Sub-total				0.220	0.220	
	Total				0.300	0.300	
5	Other related health activities.						
a)	Control of Diarrhoeal disease	Nos.	185		0.075	0.075	
b)	Reproductive Health	Nos.	105		0.050	0.050	
c)	STD/AIDS	Nos.	150		0.060	0.060	
d)	ARI	Nos.	95		0.040	0.040	
e)	VHW refresher	Nos.	7		0.010	0.010	
f)	New VHW	Nos.	18		0.050	0.050	
	Total:				0.285	0.285	

6	Drinking water supply						
a)	New Construction of water supply	Scheme	2		1.500	1.500	
b)	Source Protection	Scheme	4		0.100	0.100	
	Total :				1.600	1.600	
	GRAND TOTAL:			0.270	5.359	5.629	

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.