

# **DUNGNA GEWOG NINTH PLAN (2002-2007)**



**CHHUKHA DZONGKHAG  
ROYAL GOVERNMENT OF BHUTAN**

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## 1. Current Situation

Dungna gewog has nine villages viz. Modokha, Upper Chuenduegoenpa, Lower Chuendugoenpa, Upper Jashina, Lower Jashina, Babana, Dungna, Pango and Euzee with 165 households.

It is one of the remote gewogs under Chukha dzongkhag and is about three days walk from the dzongkhag headquarters. It has no road and is located in the north east of Logchina gewog and west of Metakha gewog. It has an area of approximately 165.4 square kilometers with elevation ranging from 1200-2300 meters above sea level.

The climate is cool and dry in winter and warm with moderate rainfall in summer. The soil is clay, loamy, sandy clay with good humus.

The landscape is mostly steep slope and villages are all scattered.

The gewog has a total agricultural land of 1,389.06 acres and paddy cultivation dominates agricultural activities. Maize, buckwheat and wheat are grown in the dry land and Tseri is used for cardamom plantation

Land Type	Area (acres)
Wetland	139.02
Dryland	413.82
Tseri	808.94
Kitchen garden	27.28
<b>Total</b>	<b>1,389.06</b>

The gewog has one Basic Health Unit, two Outreach Clinics (one with shed and one without shed), one Livestock Extension Centre, one Agriculture Extension Centre, one Livestock Extension Centre and one Primary School and one suspension bridge. A total of 67 households have access to rural water supply schemes. The gewog has access to electricity and other communication facilities.

## 2. Summary of Gewog Plan Outlay

Nu. in million

Sl No.	Programmes	Budget			Remarks
		Current	Capital	Total	
1	Agriculture Program	0.000	3.834	3.834	
2	Livestock Program	0.000	0.379	0.379	
3	Forestry Program	0.000	0.815	0.815	
4	Education Program	0.000	0.000	0.000	
5	Health Program	0.000	1.027	1.027	
6	Suspension Bridge & Mule Track	0.000	1.537	1.537	
7	Gewog Administration Management	0.270	1.200	1.470	
	<b>Total</b>	<b>0.270</b>	<b>8.792</b>	<b>9.062</b>	

### **3. Gewog Development Programs**

#### **Agriculture Programs**

##### ***Paddy Improvement***

Paddy is one of the important cereal crops in the gewog. At present only around 139.02 acre of wetland is used for paddy cultivation and with new irrigational facilities about 200 acre of wetland can be use for its cultivation. The present yield is 700 kg/acre and it is expected to increase to 900 kg/acre through input of improved seed, use of FYM and chemical fertilizer, farmers training and demonstration. About 1,250 kg of paddy seeds has been requested for distribution to whole gewog and also requested to train 120 farmers from villages of Modokha, Pango, Dungna and Apji during the ninth plan.

##### ***Maize Improvement***

Maize is also an important crop. The present yield is 840 kg/acre and can be increased to 1,200 kg/acre through use of improved seeds, field days, farmers training and demonstration. In order to increase the yield, people have requested for 1,595 kg of maize seeds and training for 150 households from the villages of Modokha, Chugeon, Dungna, Babana, Pango and Apji during the ninth plan.

##### ***Mustard Improvement***

Mustard is an important oil crop in the gewog and yields about 200 kg/acre. To increase the yield to 250 kg/acre, people have requested for 810 kg of mustard seeds, training and demonstration for 165 farmers on promotion of new high yielding varieties during the plan.

##### ***Walnut Improvement***

As climate is suitable for walnut, people have requested for training and demonstration on improved management practices and have demanded for 13,050 numbers of walnut seedlings during the plan.

##### ***Cardamom Improvement***

Cardamom is the main cash crop and is grown almost in all villages. People have proposed to focus on the increase of yield from 300 kg/acre to 400 kg/acre during the plan through improvement of nutrient management, pre&post harvest practices and introduction of new high yielding varieties (Varlang). They have also requested for 10,200 numbers of cardamom rhizomes, training and demonstration during the ninth plan.

##### ***Vegetable Improvement***

A variety of vegetables grow well in the upper region of the gewog and during the ninth plan vegetable cultivation will be promoted as the income generating activities through supply of varieties of improved vegetable seeds and farmers training.

##### ***Apple Improvement***

Farmers have proposed for five demonstrations and training of 85 households and have requested for 29,500 apple seedlings to be distributed to the whole gewog during the ninth plan.

### ***Asparagus Improvement***

Farmers have proposed for promotion of asparagus cultivation in the gewog and have requested for supply of 17,400 seedlings, farmers training and demonstration during the ninth plan.

### ***Construction of Chhoelekha Irrigation Channel***

The gewog has proposed to construct one km Chhoelekha irrigation channel during the ninth plan which will cover 15 acres of land and benefit 12 households during the plan.

### ***Renovation of Pangu Irrigation Channel***

Four km Pangu irrigation channel which covers about 30 acres of land has been proposed for renovation for the benefit of 27 households during the ninth plan.

### ***Construction of Farm Road***

Farmers have proposed to construct two km of farm roads from the main highway to Jabana to benefit 36 households of Jabana village through access to market during the ninth plan.

## **Livestock Programs**

### ***Supply of Breeding Stock***

In order to improve livestock breed, farmers have requested for AI and following breeding stocks during the ninth plan:

Jersey Cross bull	-	3 nos.
Mithun bull	-	4 nos.
Stud stallion	-	5 nos.
Donkey stallion	-	2 nos.
Pullet	-	100 nos.
Piglet	-	72 nos.

### ***Feed and Fodder Development***

Farmers have proposed to develop 59 acres of pastureland to support livestock development and have requested for 679 kgs of pasture seeds and 1,750 fodder trees during the plan.

### ***Animal Health Services***

Animal health services have been proposed during the plan to prevent and control the common livestock diseases. Three farmers will be trained as VAHW to make animal health services cost effective and efficient and to support the livestock extension workers on basic de-worming, vaccination and clinical treatment in remote areas.

### ***Farmers Training & Study Tours***

The gewog has proposed to train 60 farmers on improved livestock farming and management systems and send 20 farmers on study tour to different dzongkhags to enhance knowledge and skills through practical observation and exchange of experiences with other farmers.

### ***Establishment of Backyard Unit***

The establishment of eight dairy farms with tow to five crossbreed, eight poultry unit with five pullets and 18 piggery farms with tow to five piglets have been proposed. Farmers have requested for required inputs during the ninth plan.

### **Forestry Programs**

#### ***Private Forestry***

The gewog as a whole have proposed to create private forestry and have requested for distribution of seedlings and transfer of ownership to them during the plan.

#### ***Community Forestry***

The community of Dungna gewog has proposed to develop ten acres of community forestry with objective to preserve the Government reserved forest and have requested for fencing materials during the ninth plan.

#### ***Farmers Training/ Study Tour***

The gewog has proposed to train two farmers every year on private and community forestry management and conservation and send two farmers every year on study tour to gain experience on forestry management from other farmers during the ninth plan.

### **Health Programs**

#### ***Construction of Mondokha Outreach Clinic***

The existing Dungna BHU-II, which provides the primary health care services to the gewog requires re-construction and has been proposed in the dzongkhag ninth plan. During the ninth Plan people have requested for construction of Outreach Clinic shed at Mondokha, for the benefit of 20 households.

#### ***Construction New Rural Water Scheme***

The gewog has proposed to construct five new rural water supply schemes at Guenda, Dung Goenpa, Dungna, Eulengkha & Lotokha and Chhuzhidingkha & BHU for the benefit of 44 households during the ninth plan.

#### ***Rehabilitation of Water Supply Scheme***

The existing Nyetshokha and Mondokha RWSS have been proposed for rehabilitation during the plan for the benefit 24 households.

### *Spring Protection*

The Jazhikhamji spring source protection has been proposed by the people during the ninth plan.

### **Suspension Bridge and Mule Track Programs**

#### *Construction of Chhoelum Suspension Bridge*

The construction of suspension bridge at Chhoelum has been proposed during the ninth plan to enhance access of 200 households to other adjoining villages.

#### *Maintenance of Suspension Bridge*

People have proposed the maintenance of the existing wooden deck Haachuzam (Arikha) as it has become risky for travelers and have requested for replacement with steel deck. This bridge benefits 70 households at present.

#### *Construction of Mule Track*

The gewog has proposed to construct 20 km new mule track for benefit of Dungna and Metakha gewogs of Chukha Dzongkhag and Naja gewog of Paro Dzongkhag.

### **Gewog Administration and Management Programs**

#### *Construction of Gup's Office*

Dungna gup has no proper office to conduct gewog business and people have proposed for construction of gup's office with provision of office furniture/equipment, stationeries and telephone connection.

#### *Renovation of Lhakhangs*

As the Lhakang or monastery is very important for rural lives, people have proposed the renovation of Dung Goenpa and have requested for installation of three fire safe "metubs" during the ninth plan.

## **4. Budget Estimates**

Nu. in million

Sl. No.	Programmes	Unit	Target	Budget			Remarks
				Current	Capital	Total	
<b>1</b>	<b>Paddy Improvement</b>						
1.1	Farmers training	Hh	120	0.000	0.018	0.018	
1.2	Demonstration	No	5	0.000	0.025	0.025	
1.3	Promotion	Acre	40	0.000	0.036	0.036	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.079</b>	<b>0.079</b>	
<b>2</b>	<b>Maize Improvement</b>						
2.1	Farmers training	Hh	150	0.000	0.023	0.023	
2.2	Demonstration	No	5	0.000	0.025	0.025	
2.3	Promotion	Acre	45	0.000	0.006	0.006	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.054</b>	<b>0.054</b>	
<b>3</b>	<b>Mustard Improvement</b>						
3.1	Farmers training	Hh	165	0.000	0.025	0.025	
3.2	Demonstration	No	5	0.000	0.025	0.025	
3.3	Promotion	Acre	30	0.000	0.023	0.023	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.073</b>	<b>0.073</b>	

<b>4</b>	<b>Walnut Improvement</b>						
4.1	Farmers training	Hh	160	0.000	0.024	0.024	
4.2	Demonstration	No	5	0.000	0.025	0.025	
4.3	Promotion	Acre	5	0.000	0.025	0.025	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.074</b>	<b>0.074</b>	
<b>5</b>	<b>Cardamom Improvement</b>						
5.1	Farmers training	Hh	165	0.000	0.025	0.025	
5.2	Demonstration	No	5	0.000	0.025	0.025	
5.3	Promotion	Acre	5	0.000	0.025	0.025	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.075</b>	<b>0.075</b>	
<b>6</b>	<b>Vegetable Improvement</b>						
6.1	Farmers training	Hh	200	0.000	0.030	0.030	
6.2	Demonstration	No	5	0.000	0.025	0.025	
6.3	Promotion	Acre	30	0.000	0.005	0.005	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.060</b>	<b>0.060</b>	
<b>7</b>	<b>Apple Improvement</b>						
7.1	Farmers training	Hh	85	0.000	0.013	0.013	
7.2	Demonstration	No	5	0.000	0.025	0.025	
7.3	Promotion	Acre	3	0.000	0.033	0.033	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.071</b>	<b>0.071</b>	
<b>8</b>	<b>Asparagus Improvement</b>						
8.1	Farmers training	Hh	150	0.000	0.023	0.023	
8.2	Demonstration	No	10	0.000	0.025	0.025	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.048</b>	<b>0.048</b>	
<b>9</b>	<b>Const. of Irrigation Channel</b>						
9.1	Chhoelekha	Km	1	0.000	0.300	0.300	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.300</b>	<b>0.300</b>	
<b>10</b>	<b>Renov. of Irrigation Channel</b>						
10.1	Pangu	Km	4	0.000	0.600	0.600	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.600</b>	<b>0.600</b>	
<b>11</b>	<b>Construction of Farm Road</b>						
11.1	High way to Jabana village	Km	2	0.000	2.400	2.400	
	<b>Sub-total</b>			<b>0.000</b>	<b>2.400</b>	<b>2.400</b>	
	<b>Total</b>			<b>0.000</b>	<b>3.834</b>	<b>3.834</b>	
<b>12</b>	<b>Supply of Breeding Stock</b>						
12.1	Jersey Crossbreed bull	No	3	0.000	0.030	0.030	
12.2	Mithun bull	No	4	0.000	0.000	0.000	Self financing
12.3	Stud stallion	No	5	0.000	0.050	0.050	
12.4	Donkey stallion	No	2	0.000	0.000	0.000	Self financing
12.6	Pullets	No	100	0.000	0.000	0.000	Self financing
12.7	Piglets	No	72	0.000	0.000	0.000	Self financing
	<b>Sub-total</b>			<b>0.000</b>	<b>0.080</b>	<b>0.080</b>	
<b>13</b>	<b>Feed and Fodder Development</b>						
13.1	Pasture Development	Acre	59	0.000	0.000	0.000	
13.2	Pasture Seed	kg	679	0.000	0.046	0.046	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.046</b>	<b>0.046</b>	
<b>14</b>	<b>Animal Health Programme</b>						
14.1	Training of VAHWs	No	4	0.000	0.020	0.020	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.020</b>	<b>0.020</b>	



<b>15</b>	<b>Farmers Training &amp; Study Tours</b>						
15.1	Dairy Management	No	40	0.000	0.042	0.042	
15.2	Poultry Management	No	10	0.000	0.011	0.011	
15.3	Piggery Management	No	18	0.000	0.019	0.019	
15.4	Pasture management	No	15	0.000	0.016	0.016	
15.5	Farmers Study tour	No	20	0.000	0.100	0.100	
15.6	Cattle show	No	1	0.000	0.030	0.030	
15.7	Field days	No	2	0.000	0.010	0.010	
15.8	Pasture Demonstration	No	1	0.000	0.005	0.005	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.233</b>	<b>0.233</b>	
<b>16</b>	<b>Establishment of Backyard Unit</b>						
16.1	Poultry unit	Hh	8	0.000	0.000	0.000	Self financing
16.2	Piggery	Hh	18	0.000	0.000	0.000	Self financing
16.3	Fishery	Hh	0	0.000	0.000	0.000	Self financing
	<b>Sub-total</b>			<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	
	<b>Total</b>			<b>0.000</b>	<b>0.379</b>	<b>0.379</b>	
<b>17</b>	<b>Private Forestry</b>						
17.1	Distribution of seedling	No	15000	0.000	0.075	0.075	
17.2	Issuance of ownership certificate	No	100	0.000	0.010	0.010	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.085</b>	<b>0.085</b>	
<b>18</b>	<b>Community Forestry</b>						
18.1	Purchase of fencing material	Ha	10	0.000	0.320	0.320	
18.2	Materials & stationery	No	1	0.000	0.010	0.010	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.330</b>	<b>0.330</b>	
<b>19</b>	<b>Farmers' Training</b>						
19.1	Training on private forestry	No	25	0.000	0.100	0.100	
19.2	Training on Community forestry	No	25	0.000	0.100	0.100	
19.3	Training on rural timber supply	No	25	0.000	0.100	0.100	
19.4	Training on forest fire management	No	25	0.000	0.100	0.100	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.400</b>	<b>0.400</b>	
	<b>Total</b>			<b>0.000</b>	<b>0.815</b>	<b>0.815</b>	
<b>20</b>	<b>Construciton of Outreach Clinic</b>						
20.1	Modokha	No	1	0.000	0.110	0.110	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.110</b>	<b>0.110</b>	
<b>21</b>	<b>Construction of RWSS</b>						
21.1	Guenda	No	1	0.000	0.132	0.132	
21.2	Chhuzingdingkha and BHU	No	1	0.000	0.132	0.132	
21.3	Dung Goenpa	No	1	0.000	0.132	0.132	
21.4	Dungna	No	1	0.000	0.132	0.132	
21.5	Elengkha and Lotokha	No	1	0.000	0.132	0.132	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.660</b>	<b>0.660</b>	
<b>22</b>	<b>Rehabilitation of RWSS</b>	No.					
22.1	Nyetsbokha	No	1	0.000	0.122	0.122	
22.2	Mondokha	No	1	0.000	0.122	0.122	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.244</b>	<b>0.244</b>	
<b>23</b>	<b>Spring Source Protection</b>						
23.1	Jazhi Khamji	No.	1	0.000	0.013	0.013	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.013</b>	<b>0.013</b>	
	<b>Total</b>			<b>0.000</b>	<b>1.027</b>	<b>1.027</b>	
<b>24</b>	<b>Const. of Suspension Bridge</b>						
24.1	Chhoelum Zam	No.	1	0.000	0.955	0.955	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.955</b>	<b>0.955</b>	

<b>25</b>	<b>Maint. of Suspension Bridge</b>						
25.1	Arikha Zam (Haa chhu zam)		1	0.000	0.382	0.382	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.382</b>	<b>0.382</b>	
<b>26</b>	<b>Construciton of Mule Track</b>						
26.1	Modonkha to Lumelakha	Km	20	0.000	0.200	0.200	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.200</b>	<b>0.200</b>	
	<b>Total</b>			<b>0.000</b>	<b>1.537</b>	<b>1.537</b>	
<b>27</b>	<b>Gewog Administration</b>						
27.1	Construction of Gup's Office	No.	1	0.000	0.800	0.800	
27.2	Purchase of office furniture			0.000	0.050	0.050	
27.3	Purchase of stationary			0.000	0.050	0.050	
27.4	Telephone			0.000	0.050	0.050	
27.5	Gup's salary			0.270	0.000	0.270	
	<b>Sub-total</b>			<b>0.270</b>	<b>0.950</b>	<b>1.220</b>	
<b>28</b>	<b>Renovation of Lhaxhang</b>						
28.1	Dung Goenpa	No	1	0.000	0.100	0.100	
28.3	Construction of Methub	No	3	0.000	0.150	0.150	
	<b>Sub-total</b>			<b>0.000</b>	<b>0.250</b>	<b>0.250</b>	
	<b>Total</b>			<b>0.270</b>	<b>1.200</b>	<b>1.470</b>	
	<b>Grand total</b>			<b>0.270</b>	<b>8.792</b>	<b>9.062</b>	

## 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 *Tshopas* 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 Tshopgas. The implementation of the Quarterly Work Plan will be the responsibility of the Gup and the Tshopgas 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.