

WELCOME  
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PRESENTATION  
ON

**Preparation of District Agriculture Plan (DAP)/State Agriculture Plan(SAP) for Gujarat State under the Rashtriya Krishi Vikas Yojana(RKVY)**

**By**



**WAPCOS LIMITED**

**(A Government Of India Undertaking)**

**(International Consultant in Water, Power, Infrastructure including Rural & Urban Development Works)**

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## Section 1

# Data pertaining to Agriculture and Allied activities (Gandhinagar District)

### Primary Source:

Focused Group Discussion with villagers

Discussion with District and State Level Officials (Agriculture & Allied Sectors)

### Secondary Source:

*District Agriculture Officer, Gandhinagar*

*Animal Husbandry Section, Jilla Panchayat, Gandhinagar*

*Department of Horticulture, Krishi Bhavan, Gandhinagar*

*KVK, Randheja*

## General Information

Talukla/village		Population (As per the 2001 Census)				
Taluka / Block	No. of Villages	Male	Female	Total	SC	ST
G'nagar	74	301010	270297	571307	57862	13105
Mansa	50	104798	98016	202814	13111	1167
Kalol	69	162845	147236	310081	32465	1277
Dahegam	98	189346	120907	310253	12519	2130
<b>Total</b>	<b>291</b>	<b>757999</b>	<b>636456</b>	<b>1394455</b>	<b>115957</b>	<b>17679</b>

## Land Utilization Statistics (ha)

Taluka	Fore st Area	Land Under Non- agril. Use	Cultivable Unutilized Land in last 5 years	Cultivable Unutilized Land in last 1 years	Total Cultiva ble Land	Waste Land	Perma nent pastur es	Geogra phical area	Cultiva ted Land in %
G'nagar	0	12927	2300	1712	48767	223	0	68789	<b>70.89</b>
Dahegam	887	4150	2200	4242	46086	432	0	61947	<b>74.40</b>
Kalol	0	3510	918	988	40819	191	0	48731	<b>83.76</b>
Mansa	1157	2035	540	0	29282	679	0	36371	<b>80.51</b>
<b>Total</b>	<b>2044</b>	<b>22622</b>	<b>5958</b>	<b>6942</b>	<b>164954</b>	<b>1525</b>	<b>0</b>	<b>215838</b>	<b>76.42</b>

## Irrigated / Unirrigated Land (ha)

Taluka	Cultivable Area	Irrigated Area	Un Irrigated Area	f Irrigated Land (%)
G'nagar	48767	32000	16767	<b>65.62</b>
Dahegam	46086	23300	22786	<b>50.56</b>
Kalol	40819	17750	23069	<b>43.48</b>
Mansa	29282	25000	4282	<b>85.38</b>
<b>Total</b>	<b>164954</b>	<b>98050</b>	<b>66904</b>	<b>59.44</b>

## Soil Fertility Indices

Sl. No	Taluka	No. of Soil Samples analyzed	pH Range			EC (ds/mm) Range			Organic carbon		
			Acidic	Neutral	Alkaline	Low	Medium	High	Low	Medium	High
1.	G'nagar	--	--	6.5to7.5	--	--	0.25to0.75	--	< 0.5	--	--
2.	Dahegam	--	--	6.5 to7.5	--	--	0.25to0.75	--	< 0.5	--	--
3.	Kalol	--	--	6.5 to7.5	--	--	0.25to0.75	--	< 0.5	--	--
4.	Mansa	--	--	6.5 to7.5	--	--	0.25to0.75	--	< 0.5	--	--

Taluka	Available Nitrogen (kg / ha)			Available Phosparus (kg / ha) Range			Available Potash (kg / ha)		
	Low	Medium	High	Low	Medium	High	Low	Medium	High
G'nagar	<250	--	--	--	28 to 56	--	--	--	>280
Dahegam	<250	--	--	--	28 to 56	--	--	--	>280
Kalol	< 500	--	--	--	28 to 56	--	--	--	>280
Mansa	<500	--	--	--	28 to 56	--	--	--	>280

## Data on Weather (Rainfall in mm– 1998 to 2007)

Taluka/Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Taluka Average
Mansa	1270	373	497	266	1097	540	570	1451	1093	1094	<b>825.1</b>
Kalol	869	668	267	526	320	1246	893	1299	1039	1094	<b>822.1</b>
Dahegam	642	725	549	549	331	1127	906	1473	838	986	<b>812.6</b>
Gandhinagar	591	557	326	421	373	1031	783	1254	928	1278	<b>754.2</b>
<b>District average</b>	<b>843</b>	<b>580.7</b>	<b>402</b>	<b>440.5</b>	<b>530</b>	<b>983</b>	<b>738</b>	<b>1369</b>	<b>974.5</b>	<b>1113</b>	<b>797.37</b>

## Data on Weather

Sr. No.	Name of District	Temperature		Humidity (%)	
		Min. °C	Max. °C	Min	Max
1.	G'nagar	15 <sup>0</sup> C	40 <sup>0</sup> C	31%	80%

## Source wise Area Irrigated (ha.)

Taluka	Canals (Area)	Tanks		Open Wells		Tube / Bore Wells		Lift Irrigation		Other Sources		Total	
		Nos.	Area	Nos.	Area	Nos.	Area	Nos.	Area	Nos.	Area	Nos.	Area
G'nagar	0	NA	0	NA	0	365	32000	NA	0	NA	0	365	32000
Dahegam	3300	NA	0	NA	0	373	20000	NA	0	NA	0	373	23300
Kalol	1800	NA	0	NA	0	355	20000	NA	0	NA	0	355	21800
Mansa	--	NA	0	NA	0	460	25000	NA	0	NA	0	460	25000

## Taluka Seed Farm / Trial cum Demonstration Farm

Taluka	Name of the TSF / TCD	Total Cultivable area (ha)	Irrigated area (ha)	Un irrigated area (ha)
G'nagar	No TSF			
Dahegam	Dahegam	21.00	16.00	5.00
Kalol	Dhamsana	30.54	17.80	12.74
Mansa	Yeda	9.60	8.55	1.05

**Area, Production and Yield of Major Crops in  
for 2007- 08, District: Gandhinagar**

<b>Kharif Crops</b>	<b>Area (ha)</b>	<b>Productivity Kg/Ha</b>
Paddy	8500	3500
Bajri	16000	2200
Pulse (Tur, Mag, Math, Adad, Chola)	11800	750
Oil seeds (Groundnut)	3000	1500
Oil seeds (tal)	3500	500
Castor	30000	2700
Cotton (Irrigated)	30000	2400
Chilly	2000	6000

**Area, Production and Yield of Major Crops in  
for 2007-08, District: Gandhinagar**

<b>Ravi Crops</b>	<b>Area (ha)</b>	<b>Productivity Kg/Ha</b>
Wheat	25000	3600
Mustard	12000	1650
Fennel	1500	2000
Potato	4500	25000

## Yield GAP analysis

Sr.No.	Crop	Yield (Kg. / ha.)	Frontline Demonstration (kh. / hs.)	Yield Gap %(with respect to FLD)
1	Wheat GW-322 GW-173 LOK-45	3200	3920 3620 3840	22.5 14.4 20.0
2	Mustard (GM-3)	1620	1860	14.80
3	Fannel (Guj 11)	1720	1980	15.10
4	Chilly (GVC-101)	8000	12200	59.25
5	Bajra(GHB-526)	2740	3220	17.5
6	Green gram (G-4)	680	960	41

Sr.No.	Crop	Yield	Frontline Demonstration	Yield Gap % (with respect to FLD)	Reason for Gap In yield	Suggestion/note
7	Sesamum(G 2)	630	790	25 %	Local variety is low yielding G 2's Production potentiality is high	G 2 can not withstand High rainfall, High rainfall resistant variety Required
8	Castor GCH 7	2400	2860	18.3 %	Local Variety is wilt susceptible GCH 7 variety is Wilt resistant variety but Later stage it dries within short span	Totally wilt resistant variety required

## Animal Husbandry (Nos)

Sr. No.	Taluka	Cattle						Buffaloes					
		Cross Breed			Indigenous			Improved			Indigenous		
		M	F	Total	M	F	Total	M	F	Total	M	F	Total
1	G'nagar	365	5208	5573	4523	19396	23919	6817	95587	102404	718	12573	13291
2	Dahegam	515	2221	2736	11633	6788	18421	8539	78690	87229	2759	23858	26617
3	Kalol	1466	23502	24968	4411	14235	18646	5505	74421	79926	26	176	202
4	Mansa	2330	31135	33465	4929	15773	20702	3052	51242	54294	11	66	77
<b>Total</b>		<b>4676</b>	<b>62066</b>	<b>66742</b>	<b>25496</b>	<b>56192</b>	<b>81688</b>	<b>23913</b>	<b>299940</b>	<b>323853</b>	<b>3514</b>	<b>36673</b>	<b>40187</b>

## Animal Husbandry

Sr. No.	Taluka	Sheep						Goats					
		Improved			Indigenous			Improved			Indigenous		
		M	F	Total	M	F	Total	M	F	Total	M	F	Total
1	G'nagar	--	--	--	642	2625	3267	303	1467	1770	2143	11404	13547
2	Dahegam	--	--	--	854	6771	7625	--	--	--	2343	12269	14612
3	Kalol	--	--	--	513	1487	2000	--	--	--	1742	10611	12353
4	Mansa	44	805	849	59	380	439	--	--	--	1020	3847	4867
<b>Total</b>		<b>44</b>	<b>805</b>	<b>849</b>	<b>2068</b>	<b>11263</b>	<b>13331</b>	<b>303</b>	<b>1467</b>	<b>1770</b>	<b>7248</b>	<b>38131</b>	<b>45379</b>

## Taluka wise Existing of veterinary Institutions

Taluka	GPs	Institutions (Nos.)							Total
		Veterinary Hospital	Rural Veterinary Dispensaries	Mobile Veterinary Centers	Primary Veterinary Centers	All Centers	KVS sub Centers	Diagnostic Labs	
G'nagar		4	4	--	4	--	20	1	29
Dahegam		3	5	--	5	--	13	1	22
Mansa		1	3	--	3	--	16	0	20
Kalol		3	2	--	2	--	9	1	15
<b>TOTAL</b>		<b>11</b>	<b>14</b>				<b>58</b>	<b>3</b>	<b>86</b>

## Horticulture – Cropping Pattern (ha)

Crops	2006-07		2007-08
	Crops	Area	Area
Fruit crops	Citrus	1885	2073.5
	Mango	928	1020.8
	Sapota (Chiku)	822	904.2
	Anola	640	704
	Papaya	233	256.3
	<b>Total</b>	<b>4508</b>	<b>4958.8</b>
	Vegetable crop	Potato	13034
Brinjal		2469	2469
Lady's finger		1735	1995.25
Tomato		137	137
Cabbage		1095	1095
Cauliflower		726	726
<b>Total</b>		<b>19196</b>	<b>19456.25</b>
Spices		<b>3490</b>	<b>3839</b>

## Loan Disbursement for Investment credit during XI Five Year Plan

(Rs. In Crore)

Sr. No.	District	Type of Credit	Name of the Bank	Loan Disbursement
				2007-08
1.	G'nagar	Agriculture	Primary Agriculture Credit Society	17.94
		Animal Husbandry	Lead Bank	2.85

## Agriculture Insurance Status

(Phy – ha area)

Name of District	Name of crop	Area coverage (ha) in 2007-08
Gandhinagar	Paddy	13163
	Sesamum	3149
	Castor	29105

# Focused Group Discussion

## FGD Schedule (Executed)

Sr no.	Name of Village	Taluka	Date
1.	Pimplaj	Gandhinagar	22.5.08
2.	Nandol & Khanpur	Dehgam	24.5.08
3.	Aluva	Kalol	24.5.08
4.	Makkakhad	Mansa	24.5.08

## FGD – Main Observations

- ❖ Irregular supply of electricity (including less number of hours). Bore wells not fully utilized
- ❖ Poor availability of quality certified seeds (less production)
- ❖ Destruction of crops by Nila gaya and Pigs
- ❖ Farmers' Kits for SC/ST not reaching the hands of right beneficiaries
- ❖ Destruction of fertile soil due to digging/drilling operation by ONGC and their filling by water during monsoon (Kalol & Gandhinagar Taluka)

## FGD – Main Observations

- ❖ **Heavy loss due to Pest/Wilt disease in Castor Crops**
- ❖ **Inadequate cold storage capacity (specially for potato)**
- ❖ **Poor availability of fodder/cake**
- ❖ **Poor awareness about various new varieties of crops**
- ❖ **No guidance about the use of agriculture land (cropping pattern & crop density)**
- ❖ **Poor response for NREGA scheme (wage – Rs.70 per manday)**
- ❖ **Too much reliance on Gramsevak. No other source available for guidance**

## FGD – Farmer's Main Expectations

- ❖ **Assured minimum 8 hours' power supply**
- ❖ **Availability of certified seeds for both cash and consumption crops**
- ❖ **Regular/continuous interaction between village farmers and extension centres, KVK and government departments**
- ❖ **Checkdams/water harvesting structures – proper location**
- ❖ **More number of cold storage facilities**
- ❖ **More subsidy for drip irrigation/farm mechanization**

## **Section 2**

# **SWOT Analysis**

## STRENGTH

- ❖ Majority of geographical land area (76%) is under cultivation.
- ❖ About 60% of the cultivable land are irrigated (Mansa -85%, Kalol-43%)
- ❖ The average rainfall is good, between 830 mm to 1100 mm (Mansa-1094, Dahegam – 838) during 2007
- ❖ The average temperature and humidity are conducive to good Kharif and Ravi harvest. The temperature varies from 15 degree C to 40 degree C, with range of humidity from 31% to 80%.
- ❖ The soil is neutral with pH value between 6.5 to 7.5. Electricity conductivity and phosphorus content of soil being medium.

- ❖ **Potash content is high (>280 kg/ha).**
- ❖ **Bore well is the source of irrigation for about 96% of the irrigated area. The other source of irrigation is canal (4%, mainly in Dahegam and Kalol).**
- ❖ **3 out of 4 talukas have Taluka Seed Farm , each having irrigated area not less than 10 hectares.**
- ❖ **About 58% of the cultivable land (Kharif crops) are covered by 6 main crops. 39% of the cultivable area is covered by Castor (19.2) and cotton (19.2) followed by Bajara (10%), Paddy (5.4%) , Ground nut (1.9%), Chilli (1.2%) etc. Similarly, 78% of cultivable land (Rabi crops) are covered by 5 main crops. The most important rabi crops are wheat (45.29%) and mustard (21.74%).**
- ❖ **The yield of potato is maximum at 25000 kgs/ha followed by chilly (6000) wheat (3600), paddy (3500), castor (2700), and cotton (2400).**

## WEEKNESS

- ❖ Still 40% of the cultivable land are rainfed.
- ❖ There is no permanent pasture land in the district.
- ❖ Forest coverage is very very less - only 0.94% of the geographical area (Mansa taluka – 3.18%, Dahegam-1.43%, Gandhinagar & Kalol – 0%).
- ❖ The soil is poor in organic carbon (0.5).
- ❖ Nitrogen content (kg) per hectare, too, is low (<250).
- ❖ Gandhinagar taluka does not have Taluka Seed Farm.

- ❖ **All soil testing laboratories are in Government sector. There is no Private Public Participation.**
- ❖ **Annual Analysing capacity is not fully used (25% of the capacity still unused).**
- ❖ **Training facility is available only in Gandhinagar taluka (Randhej and Gandhinagar)**
- ❖ **Farmers' training is not frequent phenomenon**

## OPPORTUNITY

- ❖ 24% of the land is not under cultivation. Part of them may be used under watershed development programmes.
- ❖ 40% of the cultivable land is still rain fed. They may be brought under irrigation by providing irrigation facilities through bore wells.
- ❖ Forest coverage is less than 1%. Tree plantation may be carried out on massive scale under social forestry scheme.
- ❖ A Taluka Seed Farm may be opened in Gandhinagar Taluka.
- ❖ More and more educational programmes for farmers may be organized.
- ❖ Pasture land may be developed to promote animal husbandry
- ❖ Organic manures may be manufactured by using gobar/organic waste to increase the carbon content of the soil and organic farming may be promoted
- ❖ Leguminous plants (pulse) may be promoted to check the low nitrogen content of the soil.
- ❖ A continuous IEC programme may be organized for making the people aware about various developments in agriculture and allied sectors.

## THREATS

- ❖ **Absence of pasture land is detrimental to growth of animal husbandry**
- ❖ **Low nitrogen and carbon content of the soil will make it nutrient deficient if organic farming is not practiced.**
- ❖ **Gujarat being a vegetarian state, promotion of fishing/poultry may face problem.**
- ❖ **People are not much aware about various Government Schemes including RKVY**

**DRAFT PLAN**

**Focus Area 1 : Development of Major Food Crops**

Output1 : 50% increase in production of Paddy, Wheat, Bajara, Pulse and Oilseeds

Strategic intervention 1.1 : Make available certified / HYV seeds from ICAR / public sector seed corporation

Name of Crop	Area sown (In ha.)- 2007-08	Area proposed to be covered under HYV (In ha.) during 11th plan	Estimated cost on seed (In Lakhs)	Subsidy component (In Lakhs) - 50%	2008-09	2009-10	2010-11	2011-12
Paddy	8500	1700	25.5	12.75	3.19	3.19	3.19	3.19
Wheat	25000	5000	240	120	30.00	30.00	30.00	30.00
Bajara	16000	3200	3.2	1.6	0.40	0.40	0.40	0.40
Pulse	11800	2360	23.6	11.8	2.95	2.95	2.95	2.95
Oilseed (Ground nut/Tal)	6500	1300	60.9	30.45	7.61	7.61	7.61	7.61
<b>Total</b>	<b>67800</b>	<b>13560</b>	<b>353.2</b>	<b>176.6</b>	<b>44.15</b>	<b>44.15</b>	<b>44.15</b>	<b>44.15</b>

**Activity 1.1.2 : Procure seeds for cash crops**

Name of Crop	Area sown (In ha.) 2007-08	Area to be covered under HYV (In ha.) during 11th plan	Estimate d cost on seed (In Lakhs)	Subsidy compo nent (In Lakhs) - 50%	2008-09	2009-10	2010-11	2011-12
Cotton	30000	6000	37.5	18.75	4.6875	4.6875	4.6875	4.6875
Caster	30000	6000	75	37.5	9.375	9.375	9.375	9.375
<b>Total</b>	<b>60000</b>	<b>12000</b>	<b>112.5</b>	<b>56.25</b>	<b>14.0625</b>	<b>14.0625</b>	<b>14.0625</b>	<b>14.0625</b>

**Activity 1.1.3 : Provide assistance to Taluka seed farm for production of HYV seeds**

Taluka	Name of the TSF/TDC	Total Cultivable area (ha)	Assistance required	Amount of assistance (In Lakhs)				Remark
				2008-09	2009-10	2010-11	2011-12	
Dahegam	Dahegam	21	8.4	2.1	2.1	2.1	2.1	<i>The fund will be utilized to create more irrigation facilities, on seed processing activities, procuring implements, creating temporary shed</i>
Kalol	Dhamsana	30.54	12	3	3	3	3	
Mansa	Yeda	9.6	4	1	1	1	1	
<b>Total</b>		<b>61.14</b>	<b>24</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	

**Activity 1.1.4: Create a taluka seed farm in Gandhinagar taluka**

Provide lump sum assistance of Rs. 25 lakhs for development of agriculture land (about 10 ha.), creating irrigation facilities and other supports

**Focus Area 2 : Agriculture Mechanization**

**Output 2** : 50% of Small and marginal farmers use improved and gender friendly tools, implements and machinery.

**Strategic intervention 2.1** : Collaboration to be made with National Innovation Foundation to introduce improved and gender friendly tools, implements and machinery. More details would be available in State Agriculture Plan (SAP).

**Focus Area 3 : Activities related to enhancement in Soil Health**

Output 3 : Quality of soil (of the land belonging to small and marginal farmers) with regard to micro nutrient, carbon, nitrogen, potash, phosphorous would be improved

Strategic intervention 3.1 : Improve soil testing laboratory facility

**Activity 3.1.1: Set up a mobile soil testing laboratory in Gandhinagar district to cater the needs of 291 villages**

Parameters	Estimated Cost	2008-09	2009-10	2010-11	2011-12
Mobile van	1500000	1500000	-	-	-
Chemicals	50000	12500	12500	12500	12500
Recurring cost including salary of technician	400000	100000	100000	100000	100000
<b>Total</b>	<b>19,50,000</b>	<b>16,12,500</b>	<b>1,12,500</b>	<b>1,12,500</b>	<b>1,12,500</b>

**Activity 3.1.2: Distribute soil health cards to the small and marginal farmers**

Type of farmers	Nos.	Estimated Cost per health card	Total cost	2008-09	2009-10	2010-11	2011-12
Marginal	5155	300	1546350	386588	386588	386588	386588
Small	3693	300	1107900	276975	276975	276975	276975
<b>Total</b>	<b>8848</b>	<b>-</b>	<b>2654250</b>	<b>663563</b>	<b>663563</b>	<b>663563</b>	<b>663563</b>

### Activity 3.1.3: Conduct micro nutrient demonstration in all the villages of Gandhinagar taluka

Name of Demonstration	Nos.	Estimated Cost per Demonstration	Total cost	2008-09	2009-10	2010-11	2011-12
Micro nutrient	291	5000	1455000	363750	363750	363750	363750

### Activity 3.1.4: Conduct training programmes for promotion of organic farming

Type of Training	No. of farmers to be covered	No. of training programmes	Estimated Unit Cost (per training programme/ field visit)	Total cost	2008-09	2009-10	2010-11	2011-12
Organic farming	10000	100	10000	1000000	250000	250000	250000	250000
Field visits	1000	20	20000	400000	100000	100000	100000	100000
IEC Materials/ Programmes				400000	100000	100000	100000	100000
<b>Total</b>	<b>11000</b>	<b>120</b>		<b>1400000</b>	<b>350000</b>	<b>350000</b>	<b>350000</b>	<b>350000</b>

**Focus Area 4 : Integrated development of Watershed Area and Waste Land**

Output 4 : The water table would be raised by covering majority of non cultivable land under watershed programme

Strategic intervention 4.1 : Carry out various watershed activities including land development, afforestation, water harvesting etc.

Name of the Taluka	Geographical Area (ha.)	Area available for watershed development (ha.)	2008-09	2009-10	2010-11	2011-12	Estimated Cost (In Lakhs)	Remark
G'nagar	68789	4235	1000	1000	1000	1235	42.35	The focus will be on development of waste land, afforestation. Construction of khet talavadies. The activity is to be linked with watershed programme being implemented by DRDA. The fund available with DRDA may be utilised for creating major water harvesting structure such as checkdam
Dehgam	61947	6874	1700	1700	1700	1774	68.74	
Kalol	48731	2097	500	500	500	597	20.97	
Mansa	36371	1219	500	719	-	-	12.19	
<b>Total</b>	<b>215838</b>	<b>14425</b>	<b>3700</b>	<b>3919</b>	<b>3200</b>	<b>3606</b>	<b>144.25</b>	

**Focus Area 5 : Integrated pest management schemes**

Output 5 : Farmers (with focus on small and marginal farmers) would be able to know and implement various pest management practices

Strategic intervention 5.1 : Conduct training programmes for farmers through farm field schools and various IEC activities

Type of Training	No. of farmers to be covered	No. of training programmes	Estimated Unit Cost (per training programme/field visits)	Total cost	2008-09	2009-10	2010-11	2011-12
Pest management practice	20000	200	5000	1000000	250000	250000	250000	250000
Field visits	1000	20	20000	400000	100000	100000	100000	100000
IEC Materials/ Programmes				400000	100000	100000	100000	100000
<b>Total</b>	<b>21000</b>	<b>220</b>		<b>1400000</b>	<b>350000</b>	<b>350000</b>	<b>350000</b>	<b>350000</b>

**Focus Area 6 : Increasing non farm activities**

**Output 6 : Agri. clinics and agri. business centers would be set up**

**Strategic intervention 6.1 : Provide assistance to agri. entrepreneurs/agri. graduates to set up agri. clinics/agri. business centers**

**Activity 6.1.1: Provide assistance for agri. clinics**

Parameter	Unit cost	Total no. of agri clinics	Total cost	Assistance	2008-09	2009-10	2010-11	2011-12
Agri Clinics	500000	4	2000000	666667	166667	166667	166667	166667

**Activity 6.1.2: Provide assistance for setting up agri. business centers**

Parameter	Unit cost	Total no. of agri. business centre	Total no. of Beneficiaries (BPL)	Total cost	Assistance	2008-09	2009-10	2010-11	2011-12
Agri. business centers	500000	20	20	10000000	3333333	833333	833333	833333	833333

**Focus Area 7 : Market Infrastructure and Marketing development**

Output 7 : Marketing infrastructure will be improved to fetch remunerative crop price to the farmers

Strategic intervention 7.1 : Provide assistance for formation of farmers SHGs, setting up cold storage, cold chains, godowns, setting up collection centers

**Activity 7.1.1: Create village wise SHGs for the purpose of agriculture activities**

Type of farmers	Nos.	No. of SHGs to be created	Assistance per SHGs	Total assistance	2008-09	2009-10	2010-11	2011-12	Remark
Marginal	10309	700	10000	7000000	1750000	1750000	1750000	1750000	Services of NGOs will be utilized in formation of NGOs. These SHGs will be the vehicles for the implementation of various agriculture programmes
Small	7386	500	10000	5000000	1250000	1250000	1250000	1250000	
<b>Total</b>	<b>17695</b>	<b>1200</b>	-	<b>12000000</b>	<b>3000000</b>	<b>3000000</b>	<b>3000000</b>	<b>3000000</b>	

**Activity 7.1.2: Set up collection centers for agriculture products**

No. of SHGs	No. of collection centers	Assistance (one time )provided per collection centers	Total	2008-09	2009-10	2010-11	2011-12
1200	12	25000	300000	75000	75000	75000	75000

**Remarks:**

*The collection centers will be opened and managed by SHGs to be formed for the purpose of implementation of District Agriculture Plan (DAP). The objective will be to make collection centers self sustaining.*

**Focus Area 8 : Horticulture production and popularization of micro irrigation system**

**Output 8 : 50% of horticulture land would be covered under micro irrigation system**

**Strategic intervention 8.1 : Carry out various training programmes and develop IEC materials to educate the members of SHGs about drip and sprinkler system of irrigation**

**Activity 8.1.1: Conduct training programmes to educate the small and marginal farmers**

Type of farmers	Nos.	No. of SHGs to be created	No. of training programmes	Estimated cost per training programmes	Total cost per training programme	2008-09	2009-10	2010-11	2011-12
Marginal	10309	700	70	10000	700000	175000	175000	175000	175000
Small	7386	500	50	10000	500000	125000	125000	125000	125000
<b>Total</b>	<b>17695</b>	<b>1200</b>	<b>120</b>	<b>20000</b>	<b>1200000</b>	<b>300000</b>	<b>300000</b>	<b>300000</b>	<b>300000</b>

**Remarks:**

***The training will be imparted for popularization of drip and sprinkler system irrigation in both agriculture and horticulture areas.***

**Activity 8.1.2 : Develop IEC material**

Appoint an IEC Expert/Agency to design IEC materials/ programmes to educate the people about various horticulture practices including drip and sprinkler system of irrigation. Integrate the se activities with the development of IEC materials mentioned in focus area 5.

**Strategic invention 8.2 : Develop small size nursery in the district**

**Activity 8.2.1: Open a small nursery in every taluka**

Name of Taluka	No. of small nursery	Area per nursery	Estimated Cost	2008-09	2009-10	2010-11	2011-12
Gandhinagar	1	1 ha.	250000	250000			
Mansa	1	1 ha.	250000		250000		
Dehgam	1	1 ha.	250000			250000	
Kalol	1	1 ha.	250000				250000
<b>Total</b>			<b>1000000</b>	<b>250000</b>	<b>250000</b>	<b>250000</b>	<b>250000</b>

**Remarks:**

*The nursery is to be managed by the lead SHG in every taluka.*

**Focus Area 9 : Animal Husbandry**

Output 9 : Improvement in fodder production, Genetic upgradation of cattle and buffaloes , enhancement of milk production

Strategic intervention 9.1 : Develop waste land into pastures

**Activity 9.1.1 Develop waste land into pastures**

Taluka	Wasteland to be converted into pasture land	Estimated cost to convert the wasteland into pastures	2008-09	2009-10	2010-11	2011-12	Remark
G'nagar	74	370000	92500	92500	92500	92500	The activity is to be linked with watershed development programmes of the district
Dahegam	144	720000	180000	180000	180000	180000	
Kalol	64	320000	80000	80000	80000	80000	
Mansa	226	1130000	282500	282500	282500	282500	
<b>Total</b>	<b>508</b>	<b>2540000</b>	<b>635000</b>	<b>635000</b>	<b>635000</b>	<b>635000</b>	

### Activity 9.1.2: Supply high milk yielding cattle to SHGs (small and marginal farmers)

Type of farmers	Nos.	No. of SHGs to be created	Proposed no. of SHGs to be covered	Cost per SHG (For supply of cattle)	Subsidy component (25%)	2008-09	2009-10	2010-11	2011-12	Remark
Marginal	10309	700	140	3500000	875000	218750	218750	218750	218750	This component is to be linked with SGSY programme. However, care is to be taken that the implementation is in SHG mode.
Small	7386	500	100	2500000	625000	156250	156250	156250	156250	
<b>Total</b>	<b>17695</b>	<b>1200</b>	<b>240</b>	<b>6000000</b>	<b>1500000</b>	<b>375000</b>	<b>375000</b>	<b>375000</b>	<b>375000</b>	

### Activity 9.1.3 : Develop farmers group for vermi compost component

Taluka	Production of Organic Inputs in a year (Q)		Other Activities			2008-09 (Rs. In Lakhs)	2009-10 (Rs. In Lakhs)	2010-11 (Rs. In Lakhs)	2011-12 (Rs. In Lakhs)
	Biofertilizers	Vermi compost	Farmer's Groups	Organic Certification Groups	Required Amount (In Lakh)				
G'nagar	4000	1000	370	74	40	10	10	10	10
Dehgam	5000	1000	250	50	30	8	8	8	8
Kalol	3000	1000	345	69	40	10	10	10	10
Mansa	6000	2000	490	98	60	15	15	15	15
<b>Total</b>	<b>18000</b>	<b>5000</b>	<b>1455</b>	<b>291</b>	<b>170</b>	<b>43</b>	<b>43</b>	<b>43</b>	<b>43</b>

## SUMMARIZED PLAN

Sr no.	Activities	Fund required (In lakhs)				Total
		2008-09	2009-10	2010-11	2011-12	
<b>1</b>	<b>Development of Major Food Crops</b>					
1.1	Procure seeds for food crops	44.15	44.15	44.15	44.15	176.6
1.2	Procure seeds for Cash Crops	14.06	14.06	14.06	14.06	56.25
1.3	Provide assistance to Taluka seed farm for production of HYV seeds	6	6	6	6	24
1.4	Create a taluka seed farm in Gandhinagar taluka	15	10	-	-	25
<b>2</b>	<b>Agriculture Mechanization (To be dealt in State Agriculture Plan)</b>					
<b>3</b>	<b>Activities related to enhancement in Soil Health</b>					
3.1	Set up a mobile soil testing laboratory in Gandhinagar district to cater the needs of 291 villages	16	1.12	1.12	1.12	19.36
3.2	Distribute soil health cards to the small and marginal farmers	7	7	7	7	28
3.3	Conduct micro nutrient demonstration in all the villages of Gandhinagar taluka	3.63	3.63	3.63	3.63	14.52
3.4	Conduct training programmes for promotion of organic farming	3.5	3.5	3.5	3.5	14
<b>4</b>	<b>Integrated development of Watershed Area and Waste Land</b>					
4.1	Carry out various watershed activities including land development, afforestation, water harvesting etc.	36	36	36	36	144

## SUMMARIZED PLAN

Sr no.	Activities	Fund required (In lakhs)				Total
		2008-09	2009-10	2010-11	2011-12	
<b>5</b>	<b>Integrated pest management schemes</b>					
5.1	Conduct training programmes for farmers through farm field schools and various IEC activities	3.5	3.5	3.5	3.5	14
<b>6</b>	<b>Increasing non farm activities</b>					
6.1	Provide assistance for agri. clinics	1.7	1.7	1.7	1.7	6.8
6.2	Provide assistance for setting up agri. business centers	8.3	8.3	8.3	8.3	33.2
<b>7</b>	<b>Market Infrastructure and Marketing development</b>					
7.1	Create village wise SHGs for the purpose of agriculture activities	30	30	30	30	120
7.2	Set up collection centers for agriculture products	0.75	0.75	0.75	0.75	3
<b>8</b>	<b>Horticulture production and popularization of micro irrigation system</b>					
8.1	Conduct training programmes to educate the small and marginal farmers	3	3	3	3	12
8.2	Develop small size nursery in the district	2.5	2.5	2.5	2.5	10
<b>9</b>	<b>Animal Husbandry</b>					
9.1	Develop waste land into pastures	6.35	6.35	6.35	6.35	25.4
9.2	Supply high milk yielding cattle to SHGs (small and marginal farmers)	3.75	3.75	3.75	3.75	15
9.3	Develop farmers group for vermi compost component	43	43	43	43	172
<b>TOTAL</b>		<b>248.19</b>	<b>228.31</b>	<b>218.31</b>	<b>218.31</b>	<b>913.13</b>

THANK YOU