
AGRICULTURE DEVELOPMENT REPORT OF SIKKIM FOR 2003-04

Agriculture Development is vital to the progress of Sikkim, because more than 64 percent of the population are depended on Agriculture for their livelihood. It has been the backbone of our economy, representing about a third of State's Gross Domestic Product (GDP), in spite of limited cultivable land, variable agro – climatic conditions, difficult terrain, soil acidity, the prolonged dry spell in the Rabi season, and so on.

Though there is a slight decrease in area of field crops there is an increase of about 3% in the production of foodgrains & 22% in Oilseeds, which is mainly due to timely supply of inputs and favourable monsoon. The production of food grain during 2003-04 is 99,340 MT as compared to 97,070 MT of 2002-03. There is increase in oilseed production as compared to 2002-03, which is 7,440 MT 2003-04 where as it was 63,00 MT in 2002-03.

The Centrally Sponsored Schemes Like Oilseeds Production Programme, National Pulses Development Programme, Coarse Cereals, Accelerated Maize Development programme, and National Watershed Development Programme for rainfed area have significantly contributed in the enhancement of crop production and in gearing up dissemination of scientific and improved farm technology to the grass – root level in the State. Newly initiated Centrally Sponsored Schemes through Macro – Management mode are initiated to add more in strengthening infra – structure and Natural Resource Management.

To give a boost to organic farming in Sikkim a new technology called EM Technology is being propagated among the farmers in technical collaboration with MAPLE ORGTECH Dehradun. Hundred villages have been taken up in this programme & around 3000 farmers are taking benefit of this programme covering an area of 3000 ha.

For control of insect pest in farmers field, IPM technology is being practiced. Predators are produced in our State IPM Lab and then released in the farmers field to control the insect pest, as and when required.

Under capacity building programme more than 100 officers have been trained within the state and outside state under different centrally sponsored programmes.

Farmers have started producing certified seed under seed production programme. The seeds after certification by the designated seed Inspectors of the district, will be purchased by the Department to meet the state requirement.

Under the farm Mechanization programme mini power tiller were provided in all Government farms and farmer's field for demonstration purpose. Iron plough (Himachal Model) has been distributed to all Gram Panchayat Unit of the State for wide demonstration and popularization.

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**ESTIMATES OF AREA, PRODUCTION & YIELD
OF FIELD CROPS OF SIKKIM DURING 2003-04**

SL.No	Crop	Area in Hectares	Production in Tonnes	Average Yield in Kg/Ha
I	CEREALS			
1	Rice	14.74	21.19	1437.00
2	Wheat	5.74	8.09	1410.00
3	Maize	36.70	57.05	1554.50
4	Finger-Millet	4.15	3.57	860.24
5	Barley	1.23	1.51	1227.64
6	Buckwheat	2.01	1.55	771.14
	Total Cereals	64.57	92.96	1439.68
II	PULSES;			
1	Urd	3.78	2.81	743.39
2	Other Pulses	2.93	3.57	1218.43
	Total Pulses	6.71	6.38	950.82
	TOTAL FOOD GRAINS	71.28	99.34	1393.66
III	OIL SEED			
1	Rapeseed & Mustard	6.00	4.20	700.00
2	Soybean	3.89	3.21	825.19
3	Other Oilseed.	0.06	0.03	500.00
	TOTAL OIL SEED	9.95	7.44	747.74

**SEASONS - WISE ESTIMATES OF AREA AND PRODUCTION OF
FIELD CROPS IN SIKKIM DURING 2003-04**

Area in '000' Hectares		Production in '000' Tonnes			Yield in kg/hec
Sl.No	Crop	Season	Area	Production	Yield.
I	CEREALS				
1	Rice	Kharif	14.74	21.19	1437.58
		Rabi	-	-	-
		Annual	14.74	21.19	1437.58
2	Wheat	Kharif	-	-	-
		Rabi	5.74	8.09	1409.41

		Annual	5.74	8.09	1409.41
3	Maize	Kharif	36.5	56.77	1555.34
		Rabi	0.2	0.28	1400
		Annual	36.7	-	1554.49
4	Finger Millet	Kharif	4.15	3.57	860.24
		Rabi	-	-	-
		Annual	4.15	3.57	860.24
5	Barley	Kharif	-	-	-
		Rabi	1.23	1.51	1227.64
		Annual	1.23	1.51	1227.64
6	Buck Wheat	Kharif	-	-	-
		Rabi	2.01	1.55	771.14
		Annual	2.01	1.55	771.14
	TOTAL CEREAL	Kharif	55.09	81.11	1472.32
		Rabi	9.48	11.85	1250.00
		Annual	64.57	92.96	1439.68

II	PULSES				
1	Urd	Kharif	0.05	0.03	600.00
		Rabi	3.73	2.78	745.30
		Annual	3.78	2.81	743.39
2	Other Pulses	kharif	0.20	0.30	1500.00
		Rabi	2.73	3.27	1197.80
		Annual	2.93	3.57	1218.43
	TOTAL PULSES	Kharif	0.25	0.33	1320.00
		Rabi	6.46	6.05	936.53
		Annual	6.71	6.38	950.82
	TOTAL				
	FOODGRAIN	Kharif	55.34	81.44	1471.63
		Rabi	15.94	17.90	1122.96
		Annual	71.28	99.34	1393.66
III	OIL SEEDS				
1	Rapeseed & Mustard	Kharif	-	-	-

		Rabi	6.00	4.20	700.00
		Annual	6.00	4.20	700.00
2	Soybean	Kharif	3.89	3.21	825.19
		Rabi	-	-	-
		Annual	3.89	3.21	825.19
3	Other oil seed	Kharif	-	-	-
		Rabi	0.06	0.03	500.00
		Annual	0.06	0.03	500.00
	TOTAL OILSEEDS	Kharif	3.89	3.21	825.19
		Rabi	6.06	4.23	698.02
		Annual	9.95	7.44	747.74

**DISTRICT - WISE ESTIMATES OF AREA, PRODUCTION AND AVERAGE
YIELD OF FIELD CROP IN SIKKIM DURING 2003-04**

SL.No	Crop	District	Area in 000' Hectares	Production in 000' Tonnes	Yield / Hectare in Kg
I.	CEREALS:				
1	Rice	North	1.00	1.32	1320.00
		East	6.30	8.72	1384.13
		South	2.34	3.55	1517.09
		West	5.10	7.60	1490.20
	Total Rice	State	14.74	21.19	1437.58
2	Wheat	North	0.85	0.92	1082.35
		East	1.39	2.00	1438.85
		South	1.50	2.07	1380.00
		West	2.00	3.10	1550.00
	Total Wheat	State	5.74	8.09	1409.41
3	Maize	North	2.30	3.49	1517.39
		East	8.58	12.44	1449.88
		South	12.50	18.75	1500.00
		West	13.32	22.37	1679.43
	Total Maize	State	36.70	57.05	1554.50
4	Finger Miller	North	0.69	0.55	797.10
		East	1.00	0.81	810.00
		South	1.01	0.96	950.50
		West	1.45	1.25	862.07
	Total Millet	State	4.15	3.57	860.24

5	Barley	North	0.14	0.11	785.71
		East	0.44	0.50	1136.36
		South	0.20	0.30	1500.00
		West	0.45	0.60	1333.33
	Total Barley	State	1.23	1.51	1227.64
6	Buck Wheat	North	0.20	0.14	700.00
		East	0.56	0.47	839.29
		South	0.58	0.42	724.14
		West	0.67	0.52	776.12
	Total BuckWheat	State	2.01	1.55	771.14
	Cereals	North	5.18	6.53	1260.77
		East	18.27	24.94	1365.08
		South	18.13	26.05	1436.85
		West	22.99	35.44	1541.54
	Total	State	64.57	92.96	1439.68
II.	PULSES				
1	Urd	North	0.02	0.01	500.00
		East	0.36	0.20	555.56
		South	1.70	1.31	770.59
		West	1.70	1.29	758.82
	Total Urd	State	3.78	2.81	743.39
2	Other Pulses	North	0.08	0.09	1125.00
		East	1.23	1.31	1065.04
		South	0.72	0.95	1319.44
		West	0.90	1.22	1355.56
	Total Other Pulses	State	2.93	3.57	1218.43
	Pulses	North	0.10	0.10	1000.00
		East	1.59	1.51	949.69
		South	2.42	2.26	933.88
		West	2.60	2.51	965.38
	Total Pulses	State	6.71	6.38	950.82
	FOOD GRAIN	North	5.28	6.63	1255.68
		East	19.86	26.45	1331.82
		South	20.55	28.31	1377.62
		West	25.59	37.95	1483.00
	TOTAL FOOD GRAIN	State	71.28	99.34	1393.66
III	OIL SEEDS	North	0.86	0.84	976.74

1	Rape & Mustard	East	1.90	1.03	542.11
		South	1.66	1.21	728.92
		West	1.58	1.12	708.86
	Total Rape & Mustard	State	6.00	4.20	700.00
2	Soybean	North	0.40	0.30	750.00
		East	0.74	0.62	837.84
		South	1.40	1.19	850.00
		West	1.35	1.10	814.81
	Total Soybean	State	3.89	3.21	825.19
	Other Oilseed	North	-	-	-
		East	-	-	-
		South	0.04	0.02	500.00
		West	0.02	0.01	500.00
	Total Other Oilseed	State	0.06	0.03	500.00
	Oil Seed	North	1.26	1.14	904.76
		East	2.64	1.65	625.00
		South	3.10	2.42	780.65
		West	2.95	2.23	755.93
	Total Oil Seed	State	9.95	7.44	747.74

**CROP YIELD ESTIMATION CONDUCTED IN SIKKIM
DURING 2003-2004**

Sl. No	CROP	Particulars	No. of Crop Cuttings Conducted					Total
			North	East	South	West	Check	
1	Rice	Target.	220	360	190	310	10	1090
		Achievement	220	340	190	180	10	940
2	Wheat	Target.	60	90	90	80	10	330
		Achievement	75	90	90	80	10	345
3	Kharif Maize	Target.	180	260	260	200	10	910
		Achievement	150	260	260	200	10	880
4	Rabi Maize	Target.		20	20	10		50
		Achievement		20	20	6		46
5	Finger millet	Target.	25	25	40	20		110
		Achievement	30	20	40	20		110
6	Barley	Target.	10	15	30	25		80
		Achievement	10	15	30	25		80
7	Buck Wheat	Target.	30	30	40	25		125
		Achievement	30	22	40	25		117
8	Urd	Target.	-	67	90	60	3	220

		Achievement	-	62	90	60	3	215
9	Ricebean	Target.	-	53	70	50	2	175
		Achievement	-	50	70	50	2	172
10	Rajmash	Target.	30	53	40	40		163
		Achievement	27	50	40	40		157
11	Toria	Target.	-	-	-	-		
		Achievement	-	-	-	-		
12	Other Pulses	Target.	-	50	35	50		135
		Achievement	-	43	35	50		128
13	Rape & Mustard	Target.	50	120	120	100	10	400
		Achievement	48	120	120	100	10	398
14	Soyabean	Target.	30	80	90	50	5	255
		Achievement	35	70	90	50	5	250
15	Other oil seed	Target.	-	-	11	10		21
		Achievement	-	-	11	10		21
	Total	Target	645	1234	1126	1030	50	4085
		Achievement	625	1162	1126	896	50	3859

**HIGH YIELDING VARIETIES COVERAGE IN SIKKIM
DURING -2003-2004**

SL.No	Crop	District	Area in Hectares		
			Kharif	Rabi	Total
1	Rice	North	570.00	-	570.00
		East	-	-	-
		South	980.00	-	980.00
		West	1200.00	-	1200.00
		Total Rice	State	2750.00	
2	Wheat	North	-	840.00	840.00
		East	-	588.90	588.90
		South	-	1480.00	1480.00
		West	-	1928.00	1928.00
		Total Wheat	State		4836.90
3	Maize	North	1210.00		1210.00
		East	2311.50	50.00	2361.50
		South	5330.00	75.00	5405.00
		West	3675.00	75.00	3750.00

	Total Maize	State	12526.50	200.00	12726.50
4	H.Y.V	North	1780.00	840.00	2620.00
		East	2311.52	638.90	2950.42
		South	6310.00	1555.00	7865.00
		West	4875.00	2003.00	6878.00
	Total H.Y.V	State	15276.52	5036.90	20313.42

IMPROVED VARIETIES COVERAGE IN SIKKIM
DURING 2003-2004

SL. No	Crop	District	Area Coverage in Hectares		
			Kharif	Rabi	Total
1	Finger - Millet	North	16.00	-	16.00
		East	10.00	-	10.00
		South	23.00	-	23.00
		West	47.00	-	47.00
	Total Finger - Millet	State	96.00	-	96.00
2	Barley	North	-	4.00	4.00
		East	-	21.54	21.54
		South	-	8.00	8.00
		West	-	39.00	39.00
	Total Barley	State	-	72.54	72.54
3	Urd	North	-	-	-
		East	-	-	-
		South	-	-	-
		West	-	-	-
	Total Urd	State	-	-	-
4	Other Pulses (Ricebean, Mung, Field Pea, Cowpea Rajmash, etc)	North	2.00	0.00	2.00
		East	-	-	-
		South	2.00	20.00	22.00
		West	113.10	20.00	133.10
	Total Other Pulses	State	117.10	40.00	157.10
5	Rape & Mustard	North	-	530.00	530.00
		East	-	1373.66	1373.66
		South	-	1430.00	1430.00
		West	-	1420.00	1420.00
	Total Rape & Mustard	State	-	4753.66	4753.66
6	Soybean	North	45.00	-	45.00
		East	146.07	-	146.07

		South	180.00	-	180.00
		West	482.00	-	482.07
	Total Soybean	State	853.07	-	853.14
7	Other Oilseed. (Sesamum, Safflower Sunflower, Niger, Etc	North	-	-	-
		East	-	-	-
		South	-	-	-
		West	-	-	-
	Total Other oilseed	State	-	-	-
8	Other (Sweet - Corn, Pop-Coen Buck Wheat ,Etc)	North	-	-	-
		East	-	-	-
		South	-	-	-
		West	-	-	-
	Total Other Pulses	State	-	-	-
	Improved Varities	North	-	-	-
		East	-	-	-
		South	-	-	-
		West	-	-	-
	Total Improved Varities	State	1066.17	4866.20	5932.37

GOVERNMENT FARM PRODUCTION IN SIKKIM
DURING 2003-2004

SL NO	CROP	VARIETY	North	East	South	West	Total
1	Paddy	PD-10	-	10.00	-	250.00	260.00
		VL-61	10.00	8.95	-	-	18.95
	Total Paddy		10.00	18.95		250.00	278.95
2	Wheat	Sonali	-	-	-	-	-
		Sonalika	4.04	18.00	6.00	32.90	60.94
		VL-738	-	10.00	0.50	6.00	16.50
		HP-1633	-	-	-	5.90	5.90
	Total Wheat		4.04	28.00	6.50	44.80	83.34
3	Maize	Palmira	-	-	5.00	-	5.00
		Swan- Composite	7.00	15.64	5.00	10.00	37.64
		Prabha	-	4.00	15.00	10.75	29.75

	Total Maize		7.00	19.64	25.00	20.75	72.39
4	Finger Millet	PES-95	-	-	-	-	-
		Maskey-5	-	-	0.60	-	0.60
		Indaf-9	-	-	0.80	7.00	7.80
		Local	-	-	-	1.20	1.20
		VLK-10	-	-	-	-	-
		VLK-146	-	-	-	-	-
	Total Millet				1.40	8.20	9.60
5	Barley	VLB-64	-	-	2.00	-	2.00
		VLB-46	-	0.60	0.20	1.50	2.30
		VL-49	-	-	-	-	-
		LOCAL	-	-	-	-	-
	Total Barley			0.60	2.20	1.50	4.30
6	Buck Wheat	Meethe/Local	-	1.70	3.20	4.00	8.90
		V.L. Ugal - 7	-	2.00		4.10	6.10
	Total B. Wheat		-	3.70	3.20	8.10	15.00
	TOTAL CEREALS		21.04	70.89	38.30	333.35	463.58
7	Ricebean	Sikkim Busty	-	-	1.90	-	1.90
		Type	-	-	-	-	-
	Total				1.90		1.90
8	Rajmah	VL-63	-	-	0.20	3.00	3.20
		Jwala	-	-	1.00	-	1.00
	Total Rajmah				1.20	3.00	4.20
9	Rape & Mustard	Pusa Jaikishan	-	1.00	0.80	4.50	6.30
		Pusa Bold	1.00	-	2.00	-	3.00
		MS-21	-	1.00	3.00	1.28	5.28
	Total R & M		1.00	2.00	5.80	5.78	14.58
10	Soyabean	PK-472	1.00	-	-	-	1.00
		PK-1040	-	1.90	1.50	-	3.40
		PK-1024	-	1.00	4.00	8.00	13.00
		PK-267	-	-	4.00	3.50	7.50
	Total Soyabean		1.00	2.90	9.50	11.50	24.90
	Total Oil Seed		2.00	4.90	16.30	17.28	39.48
	Grand Total		23.04	75.79	56.70	353.63	509.16

**FARM - WISE SEED PRODUCTION IN SIKKIM
DURING 2003-2004**

SI - N o.	CROP	VARIET Y	DISTRI CT	REGION SUB- RESION	PRODUCT ION (IN QTLS)	REMAR KS
1	PADDY	P.D- 10/VL-61	North	Mangan VI- 61	10.00	
			East	Nazitam	10.50	
			West	Daramdin	45.00	
		PD-10	South	Bermiok	5.00	
			East	Marchak	8.45	
			West	Geyzing	-	
	Total Paddy				78.95	
2	WHEAT	Sonali	North	Mangan (Sonalika)	4.04	
			West	Geyzing	6.00	
		Sonalika	East	Marchak	10.00	
			South	Chujachen	8.00	
		VL- 738 HP-1633	South	Namthang	4.00	
			West	Bermiok Daramdin	2.50 36.00	
	Total Wheat				70.54	
3	MAIZE	Palmira	North	Mangan (Prabha)	7.00	
			East	Chujachen	12.00	
				Nazitam	3.00	
				Marchak	4.64	
		Suwan - Composit e Prabha	South	Namthang	5.00	
			South	Bermiok	15.00	
		East South West	East	Rumtak	4.00	
			South	Mellidara	5.00	
West	Geyzing Daramdin	10.00 5.00				
	Total Maize				70.64	
4	Finger- Millet	PES-95 Maskey- 5	North	Mangan	-	
			South	Bermiok	0.80	
		Indaf -9 Local	South	Mellidara	0.60	
			West	Daramdin	-	
		VLK - 10	West	Daramdin	1.20	
		VLK -146	West	Geyzing	7.00	

	Total Millet				9.60	
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5	Barley	VLB-64 VLB - 46 VL - 49 Local	South West South East	Namthang Geyzing Mellidara Nazitam	2.20 1.50 1.00 0.60	
	Total Barley				5.30	
6	Buck Wheat	Meethe/ ocal VL Ugal - 7	East South West	Nazitam Chujachen Mellidara Bermiok Geyzing Daramdin	1.70 2.00 1.20 2.00 4.00 3.00	
	Total				13.90	
7	Rice bean	Sikkim Bushy Type	South	Mellidara Namthang Bermiok	0.50 0.00 0.40	
	Total				0.90	
8	Rajmash	VI - 63 Jwala	North South South West	Mangan Namthang Mellidara Geyzing	0.15 1.20 1.50 3.00	
	Total				5.85	
9	Rape & - Mustard	Pusa Jaikisan Pusa Bold MS - 21	North South East South West South	Mangan Namthang Marchak Bermiok Daramdin Geyzing Mellidara	1.00 0.80 1.00 1.00 1.00 4.50 2.00	
	Total				11.30	
10	Soybean	PK - 472 PK - 472/20 PK - 1024	North West East South	Daramdin Mangan Geyzing Chujachen Marchak Namthang Mellidara	2.00 1.00 1.70 1.00 1.90 1.50 4.00	

		PK - 267	East south	Marchak Bermiok	- 4.00	
	Total				15.10	

DISTRICT - WISE DISTRIBUTION OF CERTIFIED / TL SEED OF OUTSIDE SOURCE IN SIKKIM DURING 2003-2004							
							(In Qtls)
Sl. No.	CROP	VARIETY	NORTH	EAST	SOUTH	WEST	STATE
1	Paddy	Hybrid - 6201	1.50	3.00	4.95	2.50	11.95
		Total Paddy	1.50	3.00	4.95	2.50	11.95
2	Wheat	Sonali	-	-	-	-	-
		Sonalika	330.00	475.08	451.80	477.60	1734.40
		VL - 738	70.00	113.40	109.20	107.40	400.00
		Total Wheat	400.00	588.48	561.00	585.00	2134.40
3	Maize	Suwan Composite	2.50	6.00	7.00	3.95	19.45
		Laximi	4.00	16.20	12.00	17.00	49.20
		Hybrid - Shaktiman 1-2	2.00	6.00	6.00	6.00	20.00
		Deoki	4.00	17.00	12.00	17.00	50.00
		Total Maize	12.50	45.20	37.00	43.95	138.65
4	Barley	VLB - 1	19.80	30.00	24.90	19.80	94.50
		Total Barley	19.80	30.00	24.90	19.80	94.50
		Total Cereal	433.80	666.60	627.85	651.25	2379.50
5	Rajmash	PDR-14	20.50	49.51	52.80	50.70	163.51
		Total Rajmash	20.50	49.51	52.80	50.70	163.51
		Total Pulses.	20.50	49.51	52.80	50.70	163.51
6	Mustard	MS-21	24.00	58.56	53.04	59.40	195.00
		Total Mustard	24.00	58.56	53.04	59.40	195.00
7	Soyabean	J.S. - 335	45.90	109.54	100.10	114.00	369.54
		Total Soyabean	45.90	109.54	100.10	114.00	369.54
		TOTAL OIL SEED.	69.90	168.10	153.14	173.40	564.54
		GRAND TOTAL.	524.20	884.21	823.79	875.35	3107.55

REPORT ON SEED TESTING FROM 1.4.2003 TO 31.3.2004									
1 a) Name of laboratory					: State Seed Testing Laboratory				
b) Postal Address					: Marchak, P.O. Ranipool East Sikkim, 737 135				
c) Lab Code									
2. Status of Laboratory Wether Notified Under									
Section 4 of Seed Act 1966 (Y/N)					: Y				
3. Detail of Staff									
a) Notified seed analyst under section 12 of									
Seed Act, 1966					: One				
b) Un-notified seed analyst under section 12 of Seec Act, 1966					: Nil				
c) Other Staff					: Seven				
Total (a+b+c)					: Eight				
4. Capacity of the laboratory in the previous					: 5000 Nos				
year									
5. Existing capacity of the Laboratory					: 5000 Nos				
6. Detail of the seed sample tested during the									
perio d					:				

Type s of Sam ple	Total sam ple teste d	SAMPLE REJECTED DUE TO						
		Gene tic	Physi cal purity	Germina tion	Moist ure	See d Heal th	Tot al	Rejec ted
Certi fied	84	-	3	4	2	-	-	9
Servi ce	4958	-	8	27	7	-	-	42
Offici al	-	-	-	-	-	-	-	-

MUSHROOM DEVELOPMENT PROGRAMME IN SIKKIM DURING 2003-2004

SI.No	PROGRAMME	Unit	Physical Target	Achievement
1	SPAWN PRODUCTION;-			
	<u>a) Pleurotus Sajor - caju</u>	Bottle	6800	4196
	<u>b) Pleurotus florida</u>	- do -	1000	2737
	<u>c) Pleurotus ostreatus</u>	- do -	400	2553
	d) Agaricus bisporus	- do -	1600	3122
	e) Others	- do -	200	490
	TOTAL	TOTAL	10,000	13098
2 A	DEMONSTRATION :-			
	<u>Pleurotus Species</u>	Block	56	56
	<u>100 Bocks / (4kgs)Block</u>			
	Agaricus bisporus	Block	14	14
	50 Blocks @10kg/block			
3	ADAPTIVE TRIALS	Nos	7	8
4	CULTIVATION TRAINING.	Nos.	70	449

5	FRESH MUSHROOM PRODUCTION.			
	a) Oyster Mushroom	Kg.	-	90.75
	b) Button Mushroom	Kg.	-	229.25
	FARMERS FIELD			
	a) Oyster Mushroom	Kg.	-	4080
	b) Button Mushroom	Kg.	-	1534
6	REVENUE (DEMO + CASH)			
	a) Spawn	Rs.	-	62180.00
	b) Oyster Mushroom	Rs.	-	7260.00
	c) Button Mushroom	Rs.	-	18340.00
	c) Button Mushroom	Rs.	-	19175.00
		Rupees	Total	106955.00

(Rupees one lakh six thousand nine hundred fifty five only)

**Target & Achivements of Accelerated Maize
Development
Programme During 2003-2004**

SI · N o.	Programme Component	Unit	Phys ical	Finan cial (in lakhs)	Phys ical	Finan cial (in lakhs)	Rema rks
1	Field demonstration with improved technology.	Acres	2461.00	24.61	649.62	6.50	
2	I.P.M. Demonstration	Ha/a cres	40.00	2.40	40.00	2.40	
3	Training Programmme on crop productive technology	Nos	60.00	3.00	60.00	3.00	
4	Incentive for use of improved implements.		-	-	-	-	

5	Publicity through electronic media	-	-	0.60	-	0.60	
6	P.O.L. & Contingency	-	-	0.65	-	0.65	
				2489.00	-	13.15	
1	Minikit Programme Maize-100% CSS.	Nos	900.00	0.50	-	0.50	

TARGET AND ACHIVEMENT OF NATIONAL PULSE DEVELOPMENT PROGRAMME DURING 2003-2004

Rs. In Lakhs

SI No.	Component	Unit	Target		Achievement	
			Physical	Financial	Physical	Financial
1	Certified Seed Distribution	Qtls	752	6.00	752	6.00
2	Seed Village Scheme	Qtls	160	0.80	160	0.80
3	Distribution of Minikit	Nos	2000	-	2000	-
4	Block Demonstration	Ha	180	3.90	311.50	7.53
5	Seed Treatment	Ha	100	0.10	91.6	0.0916
6	IPM Demonstration	Ha	400	0.20	370	0.74
7	Distrobution of Rhyzobium	Ha	400	0.80	370	0.74
8	Gypsum/Pyrites	Ha	100	0.50	112	0.56
9	Farmers Training	Nos	7	1.00	7	1.00
	Total			13.30		16.922

The achivement was more, as there was an unspent balance of Rs. 3.73 lakhs

**TARGET AND ACHIVEMENT OF OILSEED PRODUCTION
PROGRAMME 2003-2004**

Rs. In Lakhs

SI No.	Component	Unit	Target		Achievement	
			Physical	Financial	Physical	Financial
1	Certified Seed Distribution	Qtls	1750	14.00	1750	14.00
2	Seed Village Scheme	Qtls	1600	8.00	1600	8.00
3	Distribution of Minikit	Nos	5000		5000	
4	Block Demonstration	Ha	1030	26.20	1310	27.30
5	Distribution of PP Equipment	Nos	36	0.56	36	0.56
6	Seed Treatment	Ha	500	0.50	500	0.50
7	IPM Demonstration	Ha	134	2.00	134	2.00
8	Distrobution of Rhyzobium	Ha	1000	0.50	1000	0.50
9	Gypsum/Pyrites	Ha	2000	10.00	2100	10.00
10	Distribution of Micronutrient	Ha	500	1.00	500	1.00
11	Farmers Training	Nos	14.0	2.00	14	2.00
12	Staff and Contigencies	Nos	-	2.00	-	2.00
	Total			66.76		67.86

The achievement was more as compared to target as the unspent balance of 2002-2003 was utilized in this financial year.

**TOTAL CONSUMPTION OF FERTILIZERS
1ST APRIL 2003 TO 31ST MARCH 2004**

IN TERMS OF MATERIALS

UREA	1592.1 3	Metric Tonnes
DAP	1224.85	Metric Tonnes
MOP	231.9	Metric Tonnes
SSP	380.8	Metric Tonnes
TOTAL	3429.68	Metric Tonnes

IN TERMS OF NUTRIENT

NO2	934.82	Metric Tonnes
P2	560.63	Metric Tonnes
K20	139.14	Metric Tonnes
TOTAL	1634.49	Metric Tonnes

PROGRESS REPORT OF MANURE & FERTILIZER SECTION

Sl. No.		Unit	East	West	North	South	Total
1	Organic Fertility Demonstration	Ha	65	67	26	59	217
2	Bio Fertilizer Demonstration	Ha	240	245	96	219	800
3	Rural Composting	Nos	100	102	40	90	332
4	Integrated Nutrient Management	Ha	48	49	19	44	160

*ANNUAL PROGRESS REPORT OF THE
ENGINEERING CELL FOR THE YEAR 2003-2004*

FARM MECHANIZATION:

Farm Mechanization ensures timeliness of operation and proper utilization of inputs resulting considerable increase on productivity [Tom limited cultivable land and water resources available on sustainable basis. The Engineering Cell of the Department has continuous efforts to search better and suitable improved tools and implements from tillage to post harvest operations within the state. And in the process lots of improved tools and implements developed by various R&D Organizations including Agricultural Engineering Universities and Institutions had been identified starting from tillage to post harvest equipments consist of hand tools and implements, Bullock drawn and Power Driven machineries were adopted. During the year 2003-04, specific programmes of Farm Mechanisation was taken up from the state plan and macro-management schemes. Under the approved state plan, traditional Tools and implements some are with slight modifications have been fabricated in the departmental workshop and distributed to government farms for trials and demonstration purpose. Details of the Tools and Implements manufactured at the Agri-Engineering workshop at Marchak is shown at annexure-I.

Limited manpower is one of the major constrain to boost up the day to day activities of the workshop. All the workers employed in the workshop are on daily wages basis and very often sent to other farms and locations for installation and repair of machines. During the last financial year 2002-2003 various tools and implements were fabricated at the Marchak workshop. Details of the utilization of the raw materials used for the manufacturing of agricultural tools & implements is annexed at-no The tools & implements fabricated at the Engg. Workshop were distributed to various farms. All the staff/worker of the workshop were also engaged for various jobs such as installation of machines of Agro-service centers provided to beneficiaries in different locations of the state. They were engaged for the demonstration of Power Tillers in Govt. Farms and Framers fields.

II. WATERMANAGEMENT:

Installation of Sprinkler Irrigation System was approved for Marchak and Bermiok Farm on turnkey basis during 2002-2003. Installation work of the Sprinkler Irrigation System of Marchak Farm was completed and is under operation.. Little modification has been done to shift the Pump set from original position with providing of sedimentation tank at the site of the river bed for better operation of the system Installation at the Bermiok Farm could not be taken up due to some technical problem and shifted to Gyalshing Farm in west district with the approval of the Government. The construction of approx. 1.0 lakh litre capacity Tank at Gyalsing almost completed and the irrigation system will be put into operation soon.

Agricultural Engineers were engaged for Planning, Designing and preparation of estimate for the execution of Water harvesting structures and Land development works. Land development work including remodeling at some of the Govt. Farms are proposed with proper

modification of the existing terraces for easy operation of Power Tillers.

III. TRAINING AND DEMONSTRATION:

Demonstration cum training on the use of improved tools and implements were organized separately or along with the other training programmes conducted by the department at various places. Training on fabrication of Metallic Seed bins and improved tools and implements for the rural artisans were conducted at the Marchak Workshop.

Several demonstrations cum training programme was organized by the Engineering Cell for the use of mini Power Tiller and other improved tools, implements and equipments. Many Officers of the Engineering Cell have attended various workshops cum training programme in and outside the state and few studies tour was conducted outside the state.

IV. PROCESSING & STORAGE:

One modern seed-processing unit has been installed after thorough renovation of one of the old store building. The plant is expected to function soon.

Renovation work of one of the existing godown at Jorethang is almost completed in the first phase and the installation of machineries and equipments are pending for the release of grants by the GOI.

This programme ha been tied up with the certified Seed production Programme of The Department. These two seed Processing plant is to cover East & North and South & West Sikkim

V. AGRICULTURAL FARMS (MINOR WORKS):

Various repair, renovation works of the department in consultation with the district officer-in-charge were taken up and executed as per the fund

availability during last financial year. Some of the details are mentioned below.

Improvement of approach road and parking yard at Mangan, protective works behind Workshop Building at Marchak, face-lifting of Showroom-cumSale counter at Marchak, repair of V.L.W Center at Tingvong, Phensong, Lingthen at North Sikkim, repair of Mushroom - Spawn complex Building at Marchak, and other miscellaneous repairs at Mazitar Farm etc. Providing of Angle iron Barbed wire fencing at Namthang, repairing of VLW Office cum Quarter cum Store at Rateypani, Ravongla, Turuk in South District and repair of VLW Office cum Quarter at Buriakhop in West District were taken up under Minor Works (Plan) during the year under report. Repair of Offices of the Krishi Bhawan, Tadong, VLW Center at Linghi Payiong in South Sikkim, Departmental Quarter at the ICAR complex were taken up from the Minor Works (Non-Plan) provisions. Details at Annexure III & IV.

VI. WORKS UNDER CAPITAL OUTLAYS:

Extension of one floor at the Agriculture Office at Pentok, Mangan, extension of one floor and protective works at the Seed Testing Laboratory at Marchak, are the main works completed under Capital Outlays. Construction of Godown at Marchak, renovation of Toilets at Krishi Bhawan, Tadong and construction of Pump Shed, footpath for Sprinkler Irrigation System at Marchak, fund transferred to Power Department for installation of Transformer to provide 3-phase line connection to the Seed Processing Unit at Mazitar. Water Supply to VLW Quarter at Sorreng, Barbed wire fencing at Gyalsing Farm and C.C footpath at Buriakhotp has been completed. Details are at Annexure-III & IV.

Various works at Lechan VL W Center were executed under BADP Programme.

VII. MACRO MANAGEMENT:

320 Sets of Improved Tools & Implements are distributed among all the Gram Panchayat Units through the district concern for demonstration under popularization programme. Similarly 9 Nos. of Mini Power Tiller with attachment of single MB Plough are to be kept at different farms for demonstration on farmers fields as well as training and maintenance to the operators.

Training of Rural Artisans for 31Nos. in two batches were conducted at the Agricultural Engineering Workshop at Marchak on manufacture of metallic Seed Bins and Improved hand tools and implements. Popularization of Metallic Seed Bins for storage purpose were taken up. Details at Annexure-V.

ANNEXURE-1

**SUMMARY OF THE AGRICULTURE TOOLS AND IMPLEMENTS
MANUFACTURED AT AG. ENGG. WORKSHOP PROCUREMENT
AND ITS DISTRIBUTION DURING 2003-2004**

Sl. No.	Items	Manufacture	Total	Issued	Balance
1	Katta	15 Nos	15 Nos	15 Nos	-
2	Sickle	12 Nos	12 Nos	-	12 Nos
3	Maize sheller	65 Nos	65 Nos	-	65 Nos
4	Watering cane	17 Nos	17 Nos	5 Nos	12 Nos
5	Seed Bin	70 Nos	70 Nos	28 Nos	42 Nos
6	Feeding Trough	42 Nos	42 Nos	12 Nos	30 Nos
7	Graden Rake	41 Nos	41 Nos	-	41 Nos
8	Hand fork	22 Nos	22 Nos	-	22 Nos
9	Dibbler	2 Nos	2 Nos	-	2 Nos
10	Karni	2 Nos	2 Nos	-	2 Nos
11	Karwa	10 Nos	10 Nos	-	10 Nos
		298 Nos	60 Nos		

ANNEXURE-II

**PROGRESS REPORT FOR UTILIZATION OF RAW MATERIALS FOR
MANUFACTURING AGRICULTURE TOOLS AND IMPLEMENTS
DURING 2003-2004**

Sl. No.	Items	Raw Material Procured during 2003-2004	Agricultural Implement manufactured	Issued	Raw Materials Utilized	Balance Raw Materials
1	MS Flat & MS Angle Iron	6 Qtl	298 Nos	60 Nos	1.5 Qtl	5.5 Qtl
2	PGI sheet 24 gauge	70 pcs.	70 Nos	28 Nos	47 pcs.	33 pcs
3	PGI sheet 26 gauge	42 pcs.	59 Nos	17 Nos	23 pcs.	1 pc
4	MS sheet (1.6mm)	35 kg	65 Nos	-	35 kg	Nil

ANNEXURE-V

ANNUAL PROGRESS REPORT FOR THE WORK DONE**UNDER PLAN BUDGET HEAD DURING THE****YEAR 2003-2004**

(Rs. In lakhs)

Sl. No.	Name of Component	Scheme Implemented	Unit	Target		Achievement	
				Phy	Fin	Phy	Fin
1	Power Tillers	a) SHRACHI-SF 7hp Model No GN 61, Diesel Operated	Nos	9	9.6	9	9.08
		b) ACC 15/A Single MB Plough	Nos	-	-	6	0.63
2	Popularisation of improved Tools and Implements	Procurement of Improved Sets of Interculture and Planting Implements	Sets	320	4.8	320	4.79

REMARKS

1. The Power Tiller is kept as Majitar Farms, E. Sikkim where assembling of the Machine and Field trials are being conducted. The allotment of these Tillers to different Farms will be undertaken as per the direction of the Higher authorities.

2. Improved Sets of Tools and Implements consist of Seven Different hand tools like Three Tyne Cultivator, Hand Shovel, Long Handle Shovel, Hand weeders etc. These Implements have been considered to benefit Women Farmers of the State for Farm operation. The proposed distribution of these Implements to the progressive farmers is @ 2 Nos of Farmers per GPU.

However, the delivery of the same to the district is kept in abeyance for the time being due to enforcement of Model Code of Conduct.

ANNEXURE - V

ANNUAL PROGRESS REPORT FOR THE WORK DONE
UNDER PLAN BUDGET HEAD DURING THE
YEAR 2003-2004

(Rs. In

Sl. No.	Name of Component	Budget Head of Accounts	Budget Allocation	Expenditure as on 31.03.04
1	Improved Implements and Machinery	2401-00,113 00,00,71 Agricultural Implements	5	4.988
2	Special Programme for increasing Crop Productivity	2401-00.113-00.00.71 00.00.73 (Plan)	5	4.870

REMARKS

1. The cost of of Machines and Improved Implements (Wheel Hoe, Hoe cum fertilizer drill, Animal Drawn SS Plough, Tiller Drawn MB Plough, Single Phase Power cum Pedal operated Seed Cleaner cum Grader, Portable Multipurpose Grinder) including Sale Tax, Transportation, Handling and packaging charges etc. is Rs. 4.78 Lacs and Rs. 21,000.00 has been spent on carriage of Power Tillers to Different Farms.

2. Under the Component at SI No. 2, High Density Polyethylene, Heat cum Humidity resistant Seed storage Bins for the Seed Processing Lab at Majitar and Improved Tillage and Implements have been procured for demonstration at the Farmers Field.

ANNEXURE-111

ANNUAL PROGRESS REPORT UNDER A.E. (N/E)
FOR THE YEAR 2003-2004

Sl. No.	Name of Work	District	Sanctioned Amount	Expenditure incurred so far
1.a.	Improvement of Approach Road parking Yard at Mangan	North	Rs. 1,93,000.00	Rs. 192,973.00
1.b.	Protective Works behind Engineering Workshop at marchak	East	Rs. 1,12,185.00	Rs. 1,12,158.00
1.C	Suplementary Angle Iron barbed wire fencing at Chujachen Agri Farm	East	Rs. 1,70,232.00	
1.d	Face Lifting of Showroom cum Sale counter at Marchak	East	Rs. 34,963.00	Rs. 60,791.00
1.e.	Repair of V.L.W. center at Tingvong	North	Rs. 67,100.00	Rs. 67,035.00
1.f.	Repair of V.L.W. center at Fensong	North	Rs. 45,200.00	Rs. 44,961.00
1.9.	Repair of V.L.W. center at Lingthen	North	Rs. 39,250.00	Rs. 39,215.00
1.h.	Construction of WC and other facilities I/c protective work and septic tank, internal water supply all complete at Engineering workshop.	East	Rs. 56,00.00	Rs. 15,604.00
1i	Minor repair of various works executed in various section of Agri Section	Krishi Bhavan		Rs. 1,07,586.00
1J	Reapir of Mushroom Spawn Complex Building at Marckah	East	Rs. 2,66,170.00	rs. 2,66,217.00
2a	Addition of One floor at Agriculture Office at Pentok, Mangan.	North	Rs. 5,15,000.00	
2.b	Addition of One floor and Protective work at seed Testing lab, Marchak	East	Rs. 3,26,440.00	Rs. 3,26,440.00
2c.	Disposing of Waste materials old files from Krishi Bhawan/ clearing of debris around IPM	East	Rs. 29,779.00	Rs. 29,779.00
3a	a) Repair works of Office room in Top floor of Krishi Bhawan/	East	Rs. 1,90,00.00	Rs. 1,80,000.00
	b) Repair of VLW Centre at c) Construction of toilet at Jorethang	South South		
3 b	Repair of departmental quarter (II Class) at ICAR complex by Shri U.P. Mahto ADA	East	Rs. 15,596.00	Rs. 15,596.00
4.a	External work at seed Testing lab Complex	East	Rs. 2,25,930.00	Rs. 2,25,090.00

4.b	Vertical Extension of Seed Testing Lab at Marchak	East	Rs. 2,73,732.00	Rs. 2,73,647.00
4.c	Construction of RCC Water storage tank at Gyalshing.	West	Rs. 7,80,564.00	Rs. 4,84,395.00
5.a	Supply and installation of Storage colling Unit with be humidifier at Seed processing Unit at Mazitar	East		Rs. 15,08,000.00
5.b	Construction Renovation of Processing unit and at Majitar	East		
5.c	Supply of Tarpauline	East		Rs. 20,304.00
6.a.	Construction of Godown for Engineering cell at Marchak	East	Rs. 9,66,421.00	Rs. 2,23,388.00
6.b	Construction of Pump shed, Sedimentation Tank, & for Shrinkler irrigation system Marchak	East	Rs. 75,970.00	Rs. 75,970.00
6.c	Renovation of Toilet at Krishi Bhawan	East	Rs. 2,39,000.00	Rs. 2,38,896.00
6.d	Providing -3 Phase External Electrification for seed Unit at Mazitar	East	Rs. 3,88,788.00	Rs. 3,88,788.00
7 a.	Vapours work at lachen VLW center.	North	Rs. 9,50,000.00	

**PROGRESS REPORT OF NRM SECTION
YEAR 2003-2004**

**BENCH
TERRACING**

I. East District

Sl. No.	Block/Village	Constituency	Area (Acre)	Achivement Acre	Subsidy Amount
			Targets		
1	Kokalay	Rakdong			
		Tintek	35	37	1,48,575.00
2	Changey Lakha	Reghu	35	25	99,936.00
3	Merung	Assamlinzey	25	31	1,20,054.00
4	L. Basilakha	Lossing			
		Pacheykhani	40	30	1,19,514.00
5	Recap	Pathing	30	32	1,29,155.00
6	4th Bhasmey	Central Pandam	40	25	99,984.00
7	Chuizey	Rumtek	-	55	2,20,000.00
8	Rautey	Rumtek	20	37	1,49,403.00
9	Premlakha	Pathing	-	37	1,49,444.00
	Total		225	309	12,36,065.00

II. West District

Sl. No.	Block/Village	Constituency	Area (Acre)	Achivement Acre	Subsidy Amount
			Targets		
1	Ramgeythang	Yoksom	35	35	1,38,582.00
2	L. Okhrey	Daramdin	35	35	1,40,868.00
3	Reshi	Renchenpong	30	30	1,19,964.00
4	Megyong	Hee Bermoik	35	35	1,40,747.00
5	Doksing	Chakung	35	35	1,45,727.00

6	Pakkigaon	Soreng	30	30	1,20,428.00
	Chunabotey				
7	Tashiding	Tashiding	35	35	1,40,785.00
8	Langyang	Gayzing	30	30	1,19,502.00
9	Sapong	Dentam	35	35	1,39,821.00
	Total				12,06,424.00

III. South District

Sl. No.	Block/Village	Constituency	Area (Acre)	Achivement Acre	Subsidy Amount
			Targets		
1	Bikmat	Rateypani	20	15	59,860.00
2	Kirtipur	Rateypani	30	35	1,39,970
3	Bokhim	Ralong	15	25	99,773.00
4	L. Pollok	Ralong	10	15	59,947.00
5	Rhenock	Ralong	15	20	79,994.00
6	Karek	Temi Tarku	45	47	1,87,424.00
7	Chalamthang	Temi Tarku	45	45	1,79,942.00
8	U. Phalidara	Damthang	40	40	1,60,000.00
9	Tingrithang	Damthang	25	25	1,00,000.00
10	Omchu	Wok	25	25	1,00,000.00
11	Chumoik	Wok	20	20	80,000.00
12	Denchung	Jorethang	45	45	1,80,000.00
13	Mungram	Melli	20	20	80,000.00
14	Lungchok	Melli	20	20	80,000.00
	Total		375	397	15,86,910.00

IV. North District

Sl. No.	Block/Village	Constituency	Area (Acre)	Achivement Acre	Subsidy Amount
			Targets		
1	Labi	Kabi Tingda	25	25	99,950.00
2	Tingchim	Lachen	25	75	2,99,752.00
	Mangshila	Mangshila	50		
4	Shipgyer	Dzongu	25	25	99,960.00
	Total		125	125	4,99,662.00
Grand Total		(I+II+III+IV)	1025	1131	45,29,061.00

**Scheme : Water Harvesting Structure Under
Macro-Management in Agriculture 2003-2004**

Sl. No.	District	Implementing Agency	Capacity of Tanks Constructed in Litres			No. of Tanks	Expenditure In lakhs
			10,000	20,000	30,000		
1	South	Soil & Water Conservation	58	5	1	64	6,16,890.00
2	North	Soil & Water Conservation	10	-	-	10	90,000.00
3	West	Soil & Water Conservation	33	-	-	33	3,03,666.00
4	East	Soil & Water Conservation	25	-	-	25	2,29,663.00
			GRAND TOTAL			132	12,40,219.00

**Achivement of Soil Conservation through
Biological Conservation Measures 2003-04**

Sl. No.	District	Area (Ha)	Nos. of benef.	Area (Ha)	Nos. of benef.	Area (Ha)	Nos. of benef.
1	East	105	225	35	105	8	35
2	West	120	265	45	80	11	45
3	North	40	170	-	-	3	125
4	South	190	660	54	216	4	40
	Grand Total	445	1320	134	411	26	245
	1+2+3+4)						

State Total

1	Fodder Grass Plantation	455 ha/	Nos of beneficiary	1320
2	Fodder tree plantation	134 ha/	Nos of beneficiary	411
3	Tea Plantation	26 ha/	Nos of beneficiary	245
	Total		615	1976

Achivement of Soil Conservation through Biological Conservation Measures 2003-04

I. EAST DISTRICT

Sl. No.	Block/Village	FOODER GRASS		FOODER TREES		TEA PLANTATION	
		Area (Ha)	Nos. of benf	Area (Ha)	Nos. of benf	Area (Ha)	Nos. of benf
1	Raigaon	-	-	-	-	3	15
2	Luing	10	20	-	-	-	-
3	Rolep Kokaley	15	25	-	-	-	-
4	Raigaon	-	-	5	20	-	-
5	Rolep	15	26	-	-	-	-
6	Nandok	10	25	-	-	-	-
7	Siganey	-	-	5	10	-	-
8	Siganey Bas	10	20	-	-	-	-
9	Subaney Dara	-	-	-	-	5	20
10	-do-	5	10	-	-	-	-
11	Luing	-	-	5	20	-	-
12	Phadamchen	-	-	5	14	-	-
13	Bhasmey	-	-	5	16	-	-
14	-do-	15	34	-	-	-	-
15	Phadamchen	10	30	-	-	-	-
16	Rolep	-	-	10	25	-	-
17	Mangthang	15	35	-	-	-	-
	Total	105	225	35	105	8	35

1	Fodder Grass Plantation	105 ha x	@Rs. 5280	Rs. 5,54,400.00
2	Fodder tree plantation	35 hax	@Rs.4400	Rs. 1,54,000.00
3	Tea Plantation	8 hax	@Rs.12,000	Rs. 96,000.00
	Total	148		Rs. 8,04,400.00

Achivement of Soil Conservation through Biological Conservation Measures 2003-04

II. WEST DISTRICT

Sl. No.	Block/Village	FOODER GRASS		FOODER TREES		TEA PLANTATION	
		Area (Ha)	Nos. of benf	Area (Ha)	Nos. of benf	Area (Ha)	Nos. of benf
1	Kamling	20	40	-	-	-	-
2	Dodak	-	-	-	-	3	15
3	Melli Aching	20	50	-	-	-	-
4	Chingthang	10	20	-	-	-	-
5	Salangdong	20	40	-	-	-	-
6	Sama Gaon	15	15	10	20	-	-
7	U. Chongrang	10	20	-	-	-	-
8	Sama Gaon	15	30	-	-	-	-
9	Som	10	20	-	-	-	-
10	U. Chungrang	-	-	5	10	-	-
11	Som	-	-	10	20	-	-
12	Sordong	-	30	-	-	3	10
13	Lungzick	-	-	10	20	-	-
14	Bhaluthang	-	-	-	-	2.5	10
15	Yangsum	-	-	-	-	2.5	10
16	Kamling	-	-	5	10	-	-
17	Ranggu	-	-	5	10	-	-
	Total	120	265	45	90	11	45

1	Fodder Grass	120 ha	@ Rs. 5280	Rs. 6,33,600.00
	Plantation			
2	Fodder tree plantation	45 ha x	@Rs.4400	Rs. 1,98,000.00
3	Tea Plantation	11ha x	@Rs.12,000	Rs. 1,32,000.00
	Total	148		Rs. 9,63,600.00

**Achivement of Soil Conservation through
Biological Conservation Measures 2003-04**

III. NORTH DISTRICT

SI. No.	Block/Village	FOODER GRASS		FOODER TREES		TEA PLANTATION	
		Area (Ha)	Nos. of benf	Area (Ha)	Nos. of benf	Area (Ha)	Nos. of benf
1	Ramamship	10	25	-	-	-	-
2	Labi	10	55	-	-	-	-
3	Tingchim	20	60	-	-		
4	Ramemship	-	-	-	-	1	50
5	Kabi	-	-	-	-	1	50
6	Tingchim	-	-	-	-	1	25
	Total	40	170	-	-	3	125

1	Fodder Grass	40ha x	@ Rs. 5280	Rs. 2,11,200.00
	Plantation			
2	Tea Plantation	3 ha x	@Rs.12,000	Rs. 36,000.00
	Total	148		Rs. 2,47,200.00

Achivement of Soil Conservation through Biological Conservation Measures 2003-04

IV. SOUTH DISTRICT

		FOODER GRASS		FOODER TREES		TEA PLANTATION	
Sl. No.	Block/Village	Area (Ha)	Nos. of benf	Area (Ha)	Nos. of benf	Area (Ha)	Nos. of benf
1	Tangsang	15	60	-	-	-	-
2	Pabong	20	80	-	-	-	-
3	Passong	5	20	-	-	-	-
4	Chumlok	10	40	-	-	-	-
5	Mungram	10	40	-	-	-	-
6	Chuba Parbing	20	77	-	-	-	-
7	Namphok	15	25	-	-	-	-
8	Suntaley	20	50	-	-	-	-
9	Cham Gaon	10	40	-	-	-	-
10	Pakzer	15	60	-	-	-	-
11	Denchung	15	60	-	-	-	-
12	Kark Kaizaley	10	40	-	-	-	-
13	Runchung Nagi	10	28	-	-	-	-
14	Lower Bumtar	-	-	5	20	-	-
15	Pabong	-	-	3	12	-	-
16	Passong	-	-	5	20	-	-
17	Chunlok	-	-	5	20	-	-
18	Mungrum	-	-	5	20	-	-
19	Chuba Parbing	-	-	5	20	-	-
20	Namphok	-	-	3	12	-	-
21	Suminkhor	-	-	3	112	-	-
22	Lower Omchu	-	-	5	20	-	-
23	Barbotey	-	-	5	20	-	-
24	Pakzer	-	-	5	20	-	-
25	Dong	-	-	5	20	4	40
26	Phong	15	40	-	-	-	-
27	Dalep	190	660	54	216	4	40

1	Fodder Grass Plantation	190ha x	Rs. 5280	Rs. 10,03,200.00
2	Fodder Tree Plantation	54 ha x	Rs. 4400	Rs. 2,37,600.00
3	Tea Plantation	4 ha x	Rs. 12,000	Rs. 48,000.00
	Total	248		Rs. 12,88,800.00

**PROGRESS REPORT OF BORDER AREA
DEVELOPMENT PROGRAMME, EAST DISTRICT, FOR THE
YEAR 2003-2004**

Sl. No.	Item	Unit	Target		Achivement		Remarks
			Phy.	Fin.	Phy.	Fin.	
1	Border Area Development Programme (B.A.D.P.)						Work Completed in the following places Nimachen, Premlakha
a	Bench Terracing	Ha.	50	1009325	50.2	1012482	Pasting, Middle
b	Contour Vegetative Hedges	Ha.	270	270000	268	268000	Padamchen, Lingtam Regu, Subaneydara
c	Planting of Shurbs	Ha.	150	900000	150	900000	Chucachen,
d	Silvi Pastural System	Ha.	125	881,250	120	846,000	Changeylakha,
e	Repair of Terraces	Ha.	178	968,000	183	1,000,264	Dalachen, Aritar.
	Total		773	4,028,575	772	4,026,746	

Other Programme : As per the guideline of Government of India.

I. Celebration of Water Month Programme

1 East District	1 Day
2 West District	1 Day
3 South District	1 Day

**II Celebration of National land Resource Conservation week
(November 14-20, 2003)**

1 East District	1 Day
2 West District	1 Day
3 South District	1 Day
4 North District	1 Day

LIST OF OFFICER AND TRAINING ORGANISED DURING 2003-2004

Sl.No.	Name of Officer	Designation	Type of Training	Name of Institute	Subject	Duration
1	K.K Pradhan	Dy. Director	Departmental	Neriwalam Tejpur	Management of water and Land Resource	2nd & 3rd Jun-03
2	Mr. B. D. Rai	WDO	Departmental	University of Agriculture Dharward	Agro-forestry	8 days 21-28 Aug. 2003
3	Mrs. Sunita Pradhan	WDO	Departmental	-do-	Agro-forestry	-do-
4	Mrs. Bina Rai	WDO	Departmental	-do-	-do-	-do-
5	Mrs. Nima Doma Bhutia	WDO	Departmental	-do-	-do-	-do-
6	Mrs. Sonam Choda Bhutia	Dy. Director	Departmental	-do-	Integrated watershed Management	8 days 28-Aug 2003
7	Mr. Navin Karki	Dy. Director	Departmental	-do-	-do-	-do-
8	Mr. Tilak Gazmir	Dy. Director	Departmental	DVC Hazaribagh	Hydrological and Sediment Monitoring for Watershed	11 days w.e.f. 9- 19 Sept. 03
9	Mr. Rajendra Thapa	Dy. Director	Departmental	-do-	-do-	-do-
10	Mr. Jagadish Pradhan	Dy. Director	Departmental	-do-	-do-	-do-
11	Mr. H.K Gautam	WDO	Departmental	NIRD Hyderabad	Planning & Management of Agro- forestry	6 days w.e.f. 10-15 Nov. 2003
12	Mr. Kamal Giri	WDO	Departmental	-do-	-do-	-do-

13	Mr. Y.K. Pradhan	Joint Director	Departmental	-do-	Watershed Management	8 days w.e.f. 18-25 Nov 2003
14	Mr. G.D. Giri	WDO	Departmental	NIRD Guwahati	Wateshed Management	-do-
15	Mrs. Rajani Tamang	WDO	Departmental	-do-	watershed Management	-do-
16	Mr. Kado Bhutia	Dy. Director	Departmental	-do-	-do-	-do-
17	Mr. B.M. Subba	Joint Director	Departmental	SIRD SIKKIM	Record keeping accounting financing & Vermi-composting	2 days 4th & 5th Feb. 2004
18	Mr. N.T. Bhutia	Dy. Director	Departmental	SIRD SIKKIM	Record keeping accounting financing & Vermi-composting	-do-
19	Mrs. Tsering Yongda	Dy. Director	Departmental	SIRD SIKKIM	-do-	-do-
20	Mr. Rajendra Thapa	WDO	Departmental	SIRD SIKKIM	-do-	-do-
21	Mr. C. B. Rai	Dy. Director	Departmental	SIRD SIKKIM	-do-	-do-
22	Mr. Sonam Choda Bhutia	Dy. Director	Departmental	SIRD SIKKIM	-do-	-do-
23	Mr. Kamal Giri	Dy. Director	Departmental	SIRD SIKKIM	-do-	-do-
24	Mr. G.D. Giri	WDO	Departmental	SIRD SIKKIM	-do-	-do-
25	Mr. H.K. Gautam	WDO	Departmental	SIRD SIKKIM	-do-	-do-
26	Mr. Balak Das Rai	WDO	Departmental	SIRD SIKKIM	-do-	-do-
27	Mrs. Sunita Pradhan	WDO	Departmental	SIRD SIKKIM	-do-	-do-
28	Mr. H.L. Panth	F.A.	Departmental	SIRD SIKKIM	-do-	-do-
29	Mr. Achung Lachungpa	Jt. Director	Departmental	SIRD SIKKIM	Record keeping accounting financing & Vermi-composting	2 days w.e.f. 6th & 7th Feb 2004

30	Mr. K.K. Pradhan	Dy. Director	Departmental	SIRD SIKKIM	-do-	-do-
31	Mr. Namgey Dorjee	Dy. Director	Departmental	SIRD SIKKIM	-do-	-do-
32	Mrs. K.N. Dolma	Dy. Director	Departmental	SIRD SIKKIM	-do-	-do-
33	Mr. Kado Bhutia	Dy. Director	Departmental	SIRD SIKKIM	-do-	-do-
34	Mrs. Anita Thapa	WDO	Departmental	SIRD SIKKIM	-do-	-do-
35	Mrs. Rajani Tamang	WDO	Departmental	SIRD SIKKIM	-do-	-do-
36	Mrs. Nima Doma Bhutia	WDO	Departmental	SIRD SIKKIM	-do-	-do-
37	Mrs. Bina Rai	WDO	Departmental	SIRD SIKKIM	-do-	-do-
38	Mr. Palzor Namgyal	Dy. Director	Departmental	SIRD SIKKIM	-do-	-do-
39	Mr. Navin Karki	Dy. Director	Departmental	SIRD SIKKIM	-do-	-do-
40	Mrs. Anita Upreti	WDO	Departmental	SIRD SIKKIM	-do-	-do-
41	Mr. Tilak Gazmir	WDO	Departmental	SIRD SIKKIM	-do-	-do-
42	Mr. Dupchen Bhutia	WDO	Departmental	SIRD SIKKIM	-do-	-do-

**TARGET AND ACHIEVEMENT OF CENTRALLY SPONSORED
SCHEME OF STRENGTHENING OF EXTENSION OF TRAINING 100%
FOR THE YEAR 2003-2004**

i) Training support to NE States including Sikkim.

(Rs. In lakhs)

Sl. No.	COMPONENTS	Unit	TARGET		ACHIEVEMENT	
			Phy.	Fin.	Phy.	Fin.
1	Refresher Course for VLWs	Nos	5	3.00	5	3.00
2	Farmers Training (2 days)	Nos	150	9.00	50	3.00
3	Farmers Training (1 day)	Nos	300	9.00	16	0.50
4	Production of Literatures	Nos	-	2.50	-	2.50
5	Procurement of production of Teaching aids	Nos	-	6.33	10	0.893
6	Maintenance of AV Vans	Nos	4	2.00	2	0.50
7	Photo lamination etc	Nos	-	-	126	0.755
	Total			31.83		14.692

Achievement in financial expenditure is less due to non-receipt of adequate fund as approved by the Government of India for the year.

ii) Use of Print Media & Kisan Mela

(Rs in lakh)

Sl. No.	COMPONENTS	Unit	TARGET		ACHIEVEMENT	
			Phy.	Fin.	Phy.	Fin.
1	Publication of printing leaflets	Nos	-	1.50	7727	1.783
2	Kisan Mela/Janta Mela	Nos	4	1.0	4	0.715
	Total		2.5			2.498 say 2.5

iii) Organization of 2 Days workshop on Organic Farming/Women in Agriculture

(Rs in lakh)

Sl.	COMPONENTS	Unit	TARGET	ACHIEVEMENT
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No.			Phy.	Fin.	Phy.	Fin.
1	Workshop Organic Farming	Nos	1	1.00	1	1.00

iv) Women in Agriculture

(Rs in lakh)

Sl. No.	COMPONENTS	Unit	TARGET		ACHIEVEMENT	
			Phy.	Fin.	Phy.	Fin.
1	Women in Agriculture	Nos	1 District	16.00	1	10.76

MACRO MANAGEMENT OF AGRICULTURE**PHYSICAL AND FINANCIAL ACHIEVEMENT FOR 2003-2004**

(Rs. In lakhs)

A	AGRICULTURE	Unit	TARGET		ACHIEVEMENT	
			Phy.	Fin.	Phy.	Fin.
PROGRAMME AND COMPONENT						
1	NATURAL RESOURCE MANAGEMENT :					
I	"National Watershed Development for Rainfed Areas"	Watershed As per GOI guidelines	32	190.00	32	191.12
II	Water Harvesting Structure and Sprinkler Demonstration in Govt. / Private Land	No	20	8.00	30	7.95
III	Water Harvesting from surface run-off perennial water source including roof water by collection in tank (min 75% contribution from beneficiaries)	No	80	12.00	120	12.40
IV	Farmer Training	No	4000	2.00		
V	1. Land Development Bench Terracing of Agriculture Land. 2. Erosion control measures (stream bank . training protective work etc. 3. Biological Soil Conservation contribution upto 75% of the cost.	Ha.	800	80.00	795	83.48

VI	Reclamation of Acidic Soil		65	2.00	-	-
VII	R.V.P.	Watershed as per guidelines of Macro mode	1	20.00	1	20.00
	Total for Natural Resource Management			314.00		314.95

PHYSICAL AND FINANCIAL ACHIEVEMENT FOR 2003-2004

A	AGRICULTURE PROGRAMME AND COMPONENT	Unit	TARGET		ACHIEVEMENT	
			Phy.	Fin.	Phy.	Fin.
2	MANURE AND FERTILIZER					
I	Organic Fertilizer Demonstration	Nos	217	6.51	604	17.26
II	Bio-Fertilizer Demonstration	Nos	800	1.20	800	1.20
III	Rural Composting(25% cost with thatched roof).	Nos	640	9.62	332	4.98
IV	Vermiculture25% of the cost.	Nos	348	6.96	-	-
V	INM Demonstration	Unit	160	8.00	160	7.98
VI	Infrastructure for Soil Testing Lab.	Lumpsum	1	5.00	1	4.98
VII	Training for field functionaries on Manures & Fertilizers	Nos	200	0.50		0.50
VIII	Training of farmers & Farm women	Nos	11200	5.51		5.50
	Total of Manure & Fertilizers			43.30		43.39
3	PLANT PROTECTIONS:					
I	Training of field functionaries on Plant protection	Nos	200	0.50	200	0.50
II	Farmers Training	Nos	3200	1.60	3200	1.60
III	Farmers Field school and promotion of bio-pesticides.	Nos	32	7.20	32	7.09
IV	Surveillance of Diseases & Pests	Lumpsum		1.00		0.87
	Total of Plant Protection			10.30		10.07
4	HUMAN RESOURCE DEVELOPMENT:					
I	Infrastructure on HRD spill over payment			4.00		4.04

		Total of HRD		4.00		4.04
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5**SEEDS**

a) Government Farms:-						
I	Infrastructure for seed farm		1	20.00	1	19.76
II	Multiplication of foundation & Breeder seed.	Lumpsum		1.00		
III	Seed Drier, grader, processing & packing		1	8.00	1	7.85
b) Farmers Field						
I	Training of field functionaries seed production.	Nos	200	0.50	200	0.50
II	Farmers Training	Nos	11,000	5.50	11,000	5.48
III	Infrastructure for Seed Testing Lab.	Lumpsum		10.00	1	9.93
	Total for Seeds			45.00		43.52

PHYSICAL AND FINANCIAL ACHIEVEMENT FOR 2003-2004

A	AGRICULTURE PROGRAMME AND COMPONENT	Unit	TARGET		ACHIEVEMENT	
			Phy.	Fin.	Phy.	Fin.
6	INTEGRATED TECHNOLOGY TRANSFER (ICDP C,C):-					
I	Encouraging varietal replacement and propagation.	Qtls.	6000	12.00	6000	12.00
II	Integrated demonstration on seeds by using new & improved technology.	ha.	1360	40.80	1360	40.92
III	Farmers Training.	Nos	8000	4.00	8000	3.88
	Total ICDP			56.80		56.80
7	AGRICULTURAL ENGINEERING:-					
I	Popularization of improved tools & implement.	Sets	320	4.80	320	4.79
II	Training of rural artisans on manufacture of Seed Bin	Nos	100	1.00	31	0.72

	and agricultural implements.					
III	Popularization of Power Tillers	Nos	9	9.60		9.71
IV	Popularization of Seed Bin & other storage.	Nos	320	3.20		3.47
	Total of Agricultural Engineering			18.60		18.69

8	COOPERATION:					
I	Assistance to Cooperative for infrastructure	Nos		4.00		4.00
II	Assistance for marketing support			4.00		4.00
	Total for Cooperation			8.00		8.00
	Total Macro-management of Agriculture			500.00		499.47

CORRIGENDUM**REVISED ESTIMATES OF AREA, PRODUCTION & YIELD
OF FIELD CROPS OF SIKKIM DURING 2002-2003**

SL.No.	Crop	Area in 000' Hectares	Production in 000' Tonnes	Average Yield in Kg/Ha
I	C E R E A L S ;			
1	Rice	14.79	21.22	1434.75
2	Wheat	6.33	8.86	1399.68
3	Maize	36.72	53.21	1449.07
4	Finger-Millet	4.34	3.74	861.75
5	Barley	1.23	1.5	1219.51
6	Buckwheat	2.00	1.54	770.00
	TOTAL CEREALS	65.41	90.07	1377.01
II	P U L S E S ;			
1	Urd	3.78	2.79	738.10
2	Other Pulses	2.90	3.47	1196.55
	TOTAL PULSES	6.68	7.00	1047.90
	TOTAL FOOD GRAINS	70.09	97.07	1384.93
III	OIL SEED.			
	Rapeseed & Mustard	4.80	3.36	700.00

	Soybean	3.89	2.91	748.07
	Other Oil Seed.	0.06	0.03	500.00
	TOTAL OIL SEED	8.75	6.30	720.00

**DISTRICT - WISE ESTIMATES OF AREA, PRODUCTION AND
AVERAGE
YIELD OF FIELD CROPS IN SIKKIM DURING 2002-2003**

SL. No	CROP	District	Area in 000' Hectares	Production in 000' Tonnes	Yield / Hectare in Kg
I.	CEREALS:				
1	Rice	North	1.00	1.35	1350.00
		East	6.35	8.72	1373.23
		South	2.34	3.55	1517.09
		West	5.10	7.60	1490.20
	Total Rice	State	14.79	21.22	1434.75
2	Wheat	North	0.85	0.91	1070.59
		East	1.98	2.85	1439.39
		South	1.50	2.00	1333.33
		West	2.00	3.10	1550.00
	Total Wheat	State	6.33	8.86	4430.00
3	Maize	North	2.50	3.25	1300.00
		East	8.60	12.04	1400.00
		South	12.50	18.75	1500.00
		West	13.12	19.17	1461.13
	Total Maize	State	36.72	53.21	1449.07
4	Finger Miller	North	0.58	0.33	568.97
		East	1.30	1.15	884.62
		South	1.01	0.96	950.50
		West	1.45	1.30	896.55
	Total Millet	State	4.34	3.74	861.75
5	Barley	North	0.14	0.10	714.29
		East	0.44	0.53	1204.55
		South	0.20	0.20	1000.00
		West	0.45	0.67	1488.89
	Total Barley	State	1.23	1.50	1219.51
6	Buck Wheat	North	0.20	0.14	700.00
		East	0.55	0.46	836.36

		South	0.58	0.42	724.14
		West	0.67	0.52	776.12
	Total BuckWheat	State	2.00	1.54	770.00
	Cereals	North	6.42	6.08	947.04
		East	18.09	25.75	1423.44
		South	18.61	25.88	1390.65
		West	22.29	32.36	1451.77
	Total Cereals	State	65.41	90.07	1377.01
II.	PULSES				
1	Urd	North	0.02	0.01	500.00
		East	0.36	0.20	555.56
		South	1.70	1.30	764.71
		West	1.70	1.28	752.94
	Total Urd	State	3.78	2.79	738.10
2	Other Pulses	North	0.08	0.08	1000.00
		East	1.24	1.30	1048.39
		South	0.70	0.92	1314.29
		West	0.88	1.17	1329.55
	Total Other Pulses	State	2.90	3.47	1196.55
	Total Pulses	North	0.10	0.09	900.00
		East	1.60	1.50	937.50
		South	2.40	2.22	925.00
		West	2.58	2.45	949.61
		State	6.68	7.00	1047.90
	FOOD GRAIN	North	5.84	6.01	1029.11
		East	19.38	23.36	1205.37
		South	20.92	27.83	1330.31
		West	25.65	33.49	1305.65
	TOTAL FOOD GRAIN	State	72.00	96.33	1337.92
III	OIL SEED:	North	0.56	0.23	500.00
1	Rape & Mustard	East	1.30	1.05	754.00
		South	1.48	1.04	750.00
		West	1.46	1.04	678.00
	Total Rape & Mustard	State	4.80	3.36	700.00
2	Soybean	North	0.40	0.24	675.00
		East	0.74	0.52	703.00
		South	1.40	1.15	821.00
		West	1.35	1.00	718.00

	Total Soybean	State	3.89	2.91	748.00
	Other Oilseed	North	-	-	-
		East	-	-	-
		South	0.04	0.02	500.00
		West	0.02	0.01	500.00
	TotalOther Oilseed	State	0.06	0.03	500.00
	Oil Seed	North	0.96	0.47	573.00
		East	2.04	1.57	735.00
		South	2.92	2.21	781.00
		West	2.83	2.05	696.00
	Total Oil Seed.	State	8.75	6.61	755.00