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ANALYSIS OF THE WORKING OF THE GOVERNMENT MILK SCHEME
MIRAJ

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C H A P T E R - I I I

ANALYSIS OF THE WORKING OF THE GOVERNMENT MILK SCHEME, MIRAJ

: SECTION-I :

3.1 INTRODUCTION:

In the absence of the District Co-operative Milk Federation in Sangli District, the responsibility of milk procurement from the various taluka level co-operative milk federations, the marketing of whole-milk to local markets and other outside markets, and the undertaking of milk by-products production becomes the task of the Government Milk Scheme, Miraj. Hence the working of the Government Milk Scheme, Miraj is crucial for the entire co-operative dairy societies in the District. The following Chapter attempts to study the Taluka-wise milk procurement, and the milk by-products, production undertaken by the Government Milk Scheme, Miraj during the period of our study.

3.2 TALUKA-WISE MILK PROCUREMENT BY GOVERNMENT MILK SCHEME, MIRAJ:

The Co-operative milk societies in Sangli District have basically developed not according to the three-tier 'Anand Pattern' as found in Gujarat. Presently three taluka co-operative milk unions namely, " Krishna Khore Dudh Utpadak Puravatha Sangh Ltd., Miraj", "Shetkari Dudh Utpadak Puravatha

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Sangh Ltd.,Kavathe Mahankal", Rajaram Bapu Patil Dudh Utpadak Sangh Ltd.,Walwa", and "Shri Vasant Dada Dugdha Vyavasay Vikas Zilla Sahakari Sangh Ltd.,Sangli",procure the milk from the primary co-operative milk societies and send the milk for marketing and processing to the Government Milk Scheme,Miraj. Shri Vasant Dada Dugdh Vyavasay Vikas Zilla Sahakari Sangh Ltd.,Sangli has staked its claim to be the "District Co-operative Milk Federation of Sangli District", but the other three Taluka Milk Producers' Co-operative societies namely, "Krishna Khore Dudh Utpadak Puravatha Sangh Ltd.,Miraj", Shetkari Sahakari Dudh Utpadak Puravatha Sangh Ltd.,Kavathe Mahankal", and "Rajaram Bapu Patil Dudh Utpadak Sangh Ltd.,Walwa" are reluctant to join the District Co-operative Milk Federation as milk procurement by them in their respective talukas is high. These taluka co-operative milk societies have not developed their federation and therefore at the district level the "Government Milk Scheme,Miraj" acts as the district apex agency which procures the milk from the taluka Sanghs and supplies the milk to the urban customers and also undertakes processing of milk and production of milk by-products. The Government Milk Scheme, Miraj was established on 25th March,1961 with a production capacity of 3,700 litres per day and in 1990-91 the installed capacity increased to 2.20 lakh litres per day. The main activities of "The Government Milk Scheme" are procurement

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of milk, processing of milk, production of milk, by-products and marketing of milk and milk by-products in local and outside areas, mainly Bombay and Pune Region.

The main activities of the Government Milk Scheme, Miraj show that the Government Milk Schemes takes up procurement and further transportation and sale of milk to urban centres. In addition, it also undertakes manufacturing of milk by-products which is necessary because in the "Flush Season", when excess milk is available, it is appropriate to make by-products of the excess milk. The major milk by-products produced are:-

- a) Table butter,
- b) White butter,
- c) Ghee,
- d) Cheese,
- e) Skimmed Milk Powder (S.M.P.).

The growth of milk procurement by "The Government Milk Scheme, Miraj" from 1981-82 to 1990-91 is shown in the Table No.3.1.

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TABLE NO.3.1MILK PROCUREMENT OF GOVERNMENT MILK SCHEME, MIRAJ

(In lakh litres)

Sr.No.	Year	Total Milk Procurement	Percentage Change	
1)	1981-82	14.29	...	-
2)	1982-83	14.46	...	+ 1.18
3)	1983-84	15.87	...	+ 9.76
4)	1984-85	16.49	...	+ 3.94
5)	1985-86	21.03	...	+ 27.51
6)	1986-87	20.80	...	- 1.11
7)	1987-88	17.49	...	- 15.88
8)	1988-89	18.90	...	+ 8.02
9)	1989-90	19.17	...	+ 1.44
10)	1990-91	18.11	...	- 5.55

Source: Office of the Dairy Manager, Government Milk Scheme, Miraj.

From the table it is found that the total milk procured by the Government Milk Scheme, Miraj in the year 1981-82 was 14.29 lakh litres which increased to 21.03 lakh litres in the year 1985-86, in the year 1987-88 it declined to 17.49 lakh litres and again it increased to 18.11 lakh litres in the year 1990-91. In other words, since 1981-82 to 1985-86 the total procurement of milk successively goes on increasing but after 1985-86 to 1990-91 there are fluctuations in the

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procurement of milk. The highest procurement was in the year 1985-86. This is due to good monsoon. But after 1985-86 the rainfall was not certain. That is why there are yearly fluctuations in the milk procurement.

If we classified total milk procurement into cow-milk and buffalo-milk, then it is seen that the proportion of cow-milk, is greater than that of buffalo milk in each year and its share in total milk procured is increasing. This reveals from the Table No.3.2.

TABLE NO.3.2
COMPOSITION OF MILK PROCURED BY
GOVERNMENT MILK SCHEME, MIRAJ
(In lakh litres)

Sr. No.	Year	Cow-milk	Buffalo-milk	Total Milk	% Share of 3 to 5	% Share of 4 to 5
1	2	3	4	5	6	7
1)	1981-82	10.29	4.00	14.29	72.00	28.00
2)	1982-83	10.26	4.20	14.46	70.95	29.05
3)	1983-84	9.69	6.18	15.87	61.06	38.94
4)	1984-85	10.96	5.53	16.49	66.46	33.54
5)	1985-86	16.04	4.99	21.03	76.27	23.73
6)	1986-87	17.68	3.12	20.80	85.00	15.00
7)	1987-88	16.42	1.07	17.49	93.88	6.12
8)	1988-89	17.53	1.37	18.90	92.75	7.25
9)	1989-90	18.16	1.01	19.17	94.73	5.27
10)	1990-91	17.81	0.30	18.11	98.34	1.66
TOTAL		144.84	31.77	176.61	82.01	17.99

Source: As of Table No.3.1.

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Not only this but also it is clear from the Table No.3.2 that in the year 1981-82 the total procurement of cow-milk was 10.29 lakh litres which increased to 16.04 lakh litres in the year 1985-86, in the year 1989-90 it was 18.16 lakh litres which slightly declined to 17.80 lakh litres in 1990-91. In the total procurement of milk, the buffalo-milk was 3.99 lakh litres in the year 1981-82 it increased to 6.18 lakh litres in the year 1983-84. After 1983-84 it goes on declining successively e.g. in the year 1985-86 it was 4.99 lakh litres, in the year 1989-90 it was 1.01 lakh litres and in the year 1990-91 it was only 0.30 lakh litres. Increase in cow-milk production is mainly due to:-

- a) increase in Jersey cows,
- b) increase in the cross breeding of cows,
- c) more milk yield of cows (cross breed, Jersey cows),
and publicity about this in the rural areas.

In the total procurement of milk, the percentage share of cow-milk was 72.03 and that of buffalo was 27.97 % in the year 1981-82. The percentage share of cow-milk increased to 93.84 % in the total procurement and that of buffalo declined to 6.16 % in the year 1987-88. In the year 1990-91 the percentage share of cow-milk was 98.34 % and that of buffalo-milk was only 1.66 % in the total milk procurement. Except for the year 1988-89, the percentage share of cow-milk in total milk procurement goes on increasing successively since 1983-84

to 1990-91 and that of buffalo goes on diminishing. In the total procurement of milk of 10 years, the percentage share of cow-milk was 82 % and that of buffalo was only 18 %. From this it becomes clear that cow-milk production is increasing and the buffalo-milk production is diminishing.

The various taluka milk Sanghs in Sangli District procure the milk in their respective talukas and transport it to the Government Milk Scheme, Miraj i.e. Krishna Khore Dudh Sangh, Miraj, Rajaram Bapu Patil Dudh Sangh, Walwa, Vasant Dada Dudh Sangh, Tasgaon, Vasant Dada Dudh Sangh, Shirala, Shetkari Dudh Utpadak Sangh, Kavathe Mahankal, Vasant Dada Dudh Sangh, Jat, Vasant Dada Dudh Sangh, Atpadi and Khanapur Dudh Sangh etc. All these taluka milk co-operative Sanghs procure the milk from Primary Co-operative Milk Societies in their respective talukas and transport it to the Government Milk Scheme, Miraj, for further processing, for making milk-products and for sale of milk and milk-products.

In Sangli District, there are some talukas with perennial water source mainly from lift irrigation schemes and assured rainfall. In these talukas due to sugarcane cultivation green fodder is available throughout the year. The farmers have also undertaken the secondary occupation of rearing milch animals. So they procure more milk. These taluka Sanghs are 'Krishna Khore Dudh Sangh, Miraj and Rajaram Bapu Dudh Sangh, Walwa.

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On the other hand there are some talukas which have no perennial water source and assured rainfall and are scarcity-prone areas. That means in these talukas like Tasgaon, Jat, Shirala, Atpadi, Kavathe Mahankal, Khanapur the average rainfall is not only low but also concentrated in some particular months. That is why the procurement of milk in these talukas is comparatively low.

From the Table No.3.3 it reveals that the procurement of milk by 'Krishna Khore Dudh Sangh, Miraj' in the year 1981-82 was nearly 4.70 lakh litres which increased to 5.39 lakh litres in the year 1985-86. But after that year the total collection of milk by this Sangh goes on diminishing successively, i.e. in the year 1988-89 total procurement of milk was 4.12 lakh litres which again declined to 3.04 lakh litres in the year 1990-91. The percentage share of Krishna Khore Dudh Sangh, Miraj, in the total procurement of milk by Government Milk Scheme, Miraj was 32.9 % in the year 1981-82 which diminished successively i.e. in the year 1985-86 it decreased to 25.6 % and again declined to 21.8 % in the year 1988-89. The percentage share in the year 1990-91 was only 16.8 %.

From the above data it becomes clear that the percentage share of Krishna Khore Dudh Sangh, Miraj has diminished in successive years. This is because, this Sangh was collecting

TABLE NO.3.3
TALUKA-WISE MILK PROCUREMENT OF GOVERNMENT MILK SCHEME, MIRAJ

Sr. No.	Year	(In lakh litres)										TOTAL (3 to 11)
		Krishna Khoru Dudh Sangh, Miraj.	Rajaram Bapu Patil Dudh Sangh, Walwa.	Shetkari Dudh Sangh Upadak Sangh K. Nahankal.	Khanapur Sangh.	Vasant Dada, Patil, Sangh, Tasgaon.	Vasant Dada, Sangh,	Vasant Dada Sangh, Shirala.	Vasant Dada Sangh, Atpedi.	Other Schemes.		
1	2	3	4	5	6	7	8	9	10	11	12	
1)	1981-82	4.70 (32.9)	3.19 (22.3)	1.00 (7.0)	0.11 (0.8)	0.54 (3.8)	1.37 (9.6)	1.01 (7.1)	0.13 (0.9)	2.24 (15.7)	14.29 (100)	
2)	1982-83	4.50 (31.1)	3.43 (23.7)	1.14 (7.9)	0.26 (1.7)	0.66 (4.6)	1.37 (9.5)	1.18 (8.2)	-	1.92 (13.3)	14.46 (100)	
3)	1983-84	4.46 (28.1)	3.18 (20.0)	1.64 (10.3)	0.35 (2.2)	0.80 (5.1)	1.35 (8.5)	1.13 (7.1)	-	2.96 (18.7)	15.87 (100)	
4)	1984-85	4.61 (28.0)	2.93 (17.8)	2.11 (12.9)	0.38 (2.3)	0.90 (5.5)	1.39 (8.4)	1.03 (6.2)	-	3.14 (19.0)	16.49 (100)	
5)	1985-86	5.39 (25.6)	3.60 (17.1)	2.41 (11.5)	0.33 (1.6)	0.95 (4.5)	1.74 (8.3)	0.91 (4.3)	-	5.70 (27.1)	21.03 (100)	
6)	1986-87	4.91 (23.6)	4.36 (21.0)	2.20 (10.6)	0.31 (1.5)	0.86 (4.1)	2.16 (10.4)	1.00 (4.8)	-	5.00 (24.0)	20.80 (100)	
7)	1987-88	4.65 (26.6)	3.77 (21.6)	2.56 (14.6)	0.43 (2.5)	1.02 (5.8)	2.10 (12.0)	1.01 (5.8)	-	1.95 (11.1)	17.49 (100)	
8)	1988-89	4.12 (21.8)	3.42 (18.1)	3.18 (16.8)	0.79 (4.2)	1.04 (5.5)	2.07 (11.0)	0.84 (4.4)	-	3.44 (18.2)	18.90 (100)	
9)	1989-90	3.80 (19.8)	2.98 (15.5)	4.31 (22.6)	1.31 (6.8)	1.08 (5.6)	1.60 (8.7)	0.77 (4.0)	-	3.26 (17.0)	19.17 (100)	
10)	1990-91	3.04 (16.8)	2.18 (12.0)	4.75 (26.3)	1.22 (6.7)	1.05 (5.8)	1.60 (8.8)	0.64 (3.5)	0.26 (1.4)	3.37 (18.7)	18.11 (100)	

Source: Office of the Dairy Manager, Government Milk Scheme, Miraj.

milk from other talukas like Jat, Atpadi, Kavathe Mahankal etc., in addition to Miraj taluka. But later on other taluka Sanghs have started to collect milk in their respective areas, hence the percentage share as well as total milk collection of Krishna Khore Dudh Sangh, Miraj shows a declining trend. However, in the total procurement of milk of Government Milk Scheme, Miraj, the percentage share of Krishna Khore Dudh Sangh, Miraj is highest. This is due to perennial water source (i.e. irrigated area of Miraj taluka).

In the total milk procurement of Government Milk Scheme, Miraj; Rajaram Bapu Patil Dudh Sangh, Walwa, contributed 3.19 lakh litres of milk in the year 1981-82. This milk contribution increased to 3.60 lakh litres in the year 1985-86 to 4.36 lakh litres in the year 1986-87. But in later years the contribution to total collection of milk declined to 3.42 lakh litres in the year 1988-89 and it again declined to 2.18 lakh litres in the year 1990-91. From the Table No.3.4 it becomes clear that the percentage share of 'Rajaram Bapu Patil Dudh Sangh, Walwa' which was 22.4 % in the year 1981-82 which increased to 23.7 % in the year 1982-83. But in the year 1985-86 it declined to 17.1 % . In the year 1987-88 it increased to 21.5 % and again it declined to 12.0 % in the year 1990-91. It means the percentage share is always fluctuating.

The total milk collection of Vasant Dada Sangh, Tasgaon was 1.37 lakh litres in the year 1981-82 which increased to 2.16 lakh litres in the year 1986-87. But in later years it diminished e.g. in the year 1988-89 it was 2.07 lakh litres and in the year 1990-91 it further declined to 1.59 lakh litres. The percentage share of Vasant Dada Sangh, Tasgaon, is very low. It was 9.6 % in the year 1981-82 which declined to 8.3 % in the year 1985-86. It again increased to 12.0% in the year 1987-88. In the year 1990-91 it declined to 8.8 %. The percentage share is low because some private businessmen like 'Chitale Dairy' collects the milk in Tasgaon taluka.

The total milk collection of 'Vasant Dada Dudh Sangh, Shirala' was 1.01 lakh litres in the year 1981-82 which declined to 0.91 lakh litres in the year 1985-86. Again it increased to 1.01 lakh litres in the year 1987-88 but in later years it goes on diminishing continuously and was 0.64 lakh litres in the year 1990-91. The highest percentage share which was 8.2 % in the year 1982-83 and by some variations it goes on declining. In the year 1985-86 the percentage share of Shirala Sangh was only 4.3 %. In the year 1988-89 it was 4.5 % and it declined to 3.6 % in the year 1990-91. The Shirala Taluka is hilly. There is no perennial water source available. Majority of the farmers are small and marginal farmers. Due to these reasons the percentage share is low.

"Shetkari Dudh Utpadak Sangh, Kavathe Mahankal" collected nearly 1.0 lakh litres of milk in the year 1981-82 which increased to 2.41 lakh litres in the year 1985-86. The total collection in the year 1988-89 was 3.18 lakh litres. It again have shown an increase in the year 1990-91, which was 4.75 lakh litres. The percentage share in the year 1981-82 was only 6.8 % which increased to 11.5 % in the year 1985-86. In the year 1988-89 the percentage share was 16.8 % which have shown again an increase upto 26.2 % in the year 1990-91. From this it becomes clear that near about 1/4th of the total milk was collected by "Shetkari Dudh Utpadak Sangh, Kavathe Mahankal". The leaders of this Sangh tried to produce and collect more milk by the way of guidance to the farmers, purchase of quality cattle etc.

The contribution of 'Vasant Dada Dudh Sangh, Jat' was 0.54 lakh litres in the year 1981-82 which increased to 0.95 lakh litres in the year 1985-86. It further increased to 1.08 lakh litres in the year 1989-90 and slightly declined to 1.05 lakh litres in the year 1990-91. The percentage share in the year 1981-82 was only 3.8 % which increased to 5.5 % in the year 1984-85. But in the year 1985-86 it declined to 4.5 %. In the year 1987-88 the percentage share was 5.8 % which declined to 5.5 % in the year 1988-89 and again it increased to 5.8 % in the year 1990-91. The percentage share of 'Vasant Dada Dudh Sangh, Jat ' is comparatively very small

in the total procurement of milk by the Government Milk Scheme, Miraj. The Jat taluka is also dry. There is no availability of perennial water source. The average rainfall is also very low. Whatever rainfall is, it is also concentrated in two to three months i.e. June end, July and August. Even though the total collection of milk from Jat taluka has gone on increasing e.g. in the year 1981-82 it was 0.54 lakh litres which increased to 1.08 lakh litres in the year 1989-90 and slightly diminished to 1.05 lakh litres in the year 1990-91.

The total milk collection of 'Khanapur Sangh' was 0.11 lakh litres in the year 1981-82 which has increased in successive years. In 1984-85 it was 0.38 lakh litres. In the year 1986-87 the total milk collection of Khanapur Sangh was 0.31 lakh litres which increased to 1.31 lakh litres in the year 1989-90 and again it declined to 1.22 lakh litres in the year 1990-91. The percentage share in the year 1981-82 was only 0.7 % which increased to 2.3 % in the year 1984-85. But again it declined to 1.5 % in the year 1986-87. After that the percentage share of Khanapur Sangh has gone up successively. In the year 1987-88, it was 2.5 %, in the year 1988-89 it was 4.2 % and in the year 1990-91 it was 6.8 %. The total milk collection of Khanapur Sangh has shown tremendous increase, even though the percentage share is low.

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: SECTION -II :3.3 "SALE OF WHOLE MILK & MILK BY-PRODUCT PRODUCTION
BY GOVERNMENT MILK SCHEME, MIRAJ:

The Government Milk Scheme, Miraj is working as the collection centre for the milk procured by the various taluka co-operative milk societies in Sangli District. In the absence of the District Co-operative Milk Federation, it has become the prime responsibility of the Government Milk Scheme to undertake sale of whole milk in local and other regions and also undertake the production of milk by-products. The Government Milk Scheme, according to our study in the early eighties undertook the sale of whole-milk to Bombay and other regions on a large scale.

TABLE NO.3.4
PROCUREMENT OF MILK AND SALE OF WHOLE MILK FROM
1981-82 TO 1990-91 BY
GOVERNMENT MILK SCHEME, MIRAJ

(In Lakh litres)

Sr. No.	Year	Total Procured milk	Sale of Whole milk to Bombay and other Regions.	4 as % age of 3
1	2	3	4	5
1)	1981-82	14.29	11.00	77.0
2)	1982-83	14.46	9.69	67.0
3)	1983-84	15.87	8.46	53.3
4)	1984-85	16.49	4.55	27.6
5)	1985-86	21.03	6.20	29.5
6)	1986-87	20.80	7.48	36.0
7)	1987-88	17.49	5.99	34.2
8)	1988-89	18.90	4.30	22.8
9)	1989-90	19.17	1.85	9.7
10)	1990-91	18.11	1.91	10.5

Source: As of Table No.3.1.

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According to our Table No.3.4 in the year 1981-82 of the total milk procured, nearly 77 % was sold as whole-milk and this percentage declined to 53.3 % in 1983-84. In the later years of our study it is found that the Government Milk Scheme, Miraj has changed its marketing strategy and has concentrated more on the production and marketing of milk by products. As a result of this change, of the total milk procured the percentage share of whole-milk sold declined from 36.0 % in 1986-87 to 22.8 % in 1988-89 and a sharp decline to 9.7 % in 1989-90 to 10.5 % in 1990-91. This trend indicates that as a part of the marketing strategy the Government Milk Scheme, Miraj during our period of study has increased the production of milk by-products for which there is a steady demand from other dairies and processing units like MAFCO. The details of the production of milk by-products are discussed in this section.

The details of production and sale of "Green Cheese" which is a milk by product undertaken by the Government Milk Scheme, Miraj is given in the Table No.3.5.

Column No.3 in the table gives the data regarding total production of "Green Cheese" year-wise. In the year 1981-82 the total Green Cheese produced by the Government Milk Scheme, Miraj was 2.3 thousand Kgs. which increased to 8.4 thousand Kgs. in the year 1982-83, a percentage increase of 266 % over the previous year 1981-82.

TABLE NO.3.5
ANNUAL PRODUCTION & SALE OF 'GREEN CHEESE' BY GOVERNMENT MILK SCHEME,
MIRAJ (1981-82 TO 1990-91)
(In Kgs.)

Sr. No.	Year	Production Change	DISTRIBUTION (Sale)							TOTAL (5+6+7+8+9)
			MAFCO, Pune.	MAFCO Bombay	MAFCO KOREGAON	OTHER PARTIES	LOCAL SALE			
			1	2	3	4	5	6	7	
1)	1981-82	2301.40	-	1377.13	27.42	412.53	1,095.68	100.43	3013.19	
2)	1982-83	8430.90	+ 266.38	NIL	6575.90	312.83	633.99	111.71	7634.43	
3)	1983-84	2841.00	- 66.30	50.03	4056.61	140.51	46.77	87.95	4381.87	
4)	1984-85	907.00	- 68.07	684.01	NIL	120.50	5.00	130.30	939.81	
5)	1985-86	NIL	- 100.00	125.48	NIL	NIL	5.00	39.85	170.33	
6)	1986-87	3128.40	-	1435.93	773.63	NIL	31.00	96.20	2336.76	
7)	1987-88	16358.00	+ 422.88	3283.71	NIL	89.15	9,540.25	297.00	13210.11	
8)	1988-89	27669.00	+ 69.15	4820.07	1000.00	NIL	16,782.11	586.80	23188.98	
9)	1989-90	34310.00	+ 24.00	17482.59	15.00	92.40	9,822.10	1190.40	28602.49	
10)	1990-91	40923.00	+ 19.27	21055.64	1123.44	6116.07	8,866.84	1568.10	38730.09	

Source: As Table No.3.1

The total Green Cheese production actually declined in the year 1983-84 and 1984-85. In the year 1985-86 there was no production at all. From the year 1987-88 to 1990-91 the total production of Green Cheese again shows a tremendous increase. In the year 1987-88, the total production of Green Cheese was 16.4 thousand Kgs. which increased to 40.9 thousand Kgs. in the year 1990-91.

Sale of the Green Cheese produced by the Government Milk Scheme, Miraj is mainly made to the following agencies:-

- a) MAFCO,
- b) Other private parties,
- c) Local sale, which is comparatively very small portion.

However of the above buyers:

- a) MAFCO,
- b) Other private parties are the major purchasers of

Green Cheese produced by the Government Milk Scheme, Miraj.

Among MAFCO; MAFCO, Pune and MAFCO Bombay are the main buyers.

Data regarding sale of Green Cheese produced by Government Milk Scheme, Miraj to the above agencies is presented in the Table No.3.6.

MAFCO, Pune, is the leading purchaser of Green Cheese produced by Government Milk Scheme, Miraj. In the year 1981-82 Government Milk Scheme, Miraj sold nearly 1.4 thousand Kgs. of Green Cheese to the MAFCO, Pune, the percentage share of which in the total production of Green Cheese is 60 %.

This sale increased to 3.3 thousand Kgs. in the year 1987-88, the percentage share in the total production is 20 %. In the year 1989-90, the total sale of Green Cheese by Government Milk Scheme, Miraj to MAFCO, Pune was 17.5 thousand Kgs. which again increased to 21.0 thousand Kgs. in the year 1990-91. The percentage share in the total production of Green Cheese in the year 1989-90 is 5. % which remained stable in the year 1990-91 also.

MAFCO, Bombay and MAFCO, Koregaon are also the buyers of Green Cheese from Government Milk Scheme, Miraj. MAFCO, Bombay purchased nearly 6.6 thousand Kgs. of Green Cheese in the year 1982-83, and it declined to 4.0 thousand Kgs. in the year 1983-84. In the total production of Green Cheese of Government Milk Scheme, Miraj a percentage share purchased by MAFCO, Bombay was 78.0 % in the year 1982-83 which increased to 143 % in the year 1983-84. In 1983-84, the total Green Cheese production was 2841 Kgs. and the Government Milk Scheme, Miraj had a excess stock produced in 1982-83 also, hence the purchase of MAFCO, Bombay was more than the total production of that year.

In the year 1988-89 MAFCO, Bombay purchased 1.0 thousand Kgs. of Green Cheese which remained nearly constant in the year 1990-91 i.e. 1.1 thousand Kgs. MAFCO, Koregaon in the year 1990-91 purchased 6.1 thousand Kgs. of Green Cheese from Government Milk Scheme, Miraj. Except the year 1990-91 the purchase of MAFCO, Koregaon was very negligible.

The next important buyer of Green Cheese produced by Government Milk Scheme, Miraj is other private parties. In the year 1981-82, the total sale of Government Milk Scheme, Miraj to other private parties was nearly 1.1 thousand Kgs. which went on declining successively upto the year 1986-87. But from the year 1987-88, the share increased. In the year 1987-88, total sale of Green Cheese, produced by Government Milk Scheme, Miraj to other private parties was 9.5 thousand Kgs. which increased to 16.8 thousand Kgs. in the year 1988-89. In the total production of Green Cheese produced by the Government Milk Scheme, Miraj the percentage share purchased by other private parties was 58.3 % which increased to 60.7 % in the year 1988-89. In the year 1990-91, total sale to other private parties declined to 8.9 thousand Kgs. The percentage share purchased in the total production of Green Cheese by other private parties declined to 21.7 % in the year 1990-91.

Local sale of Green Cheese however, is a very small proportion of total production. For example in the year 1981-82 local sale of Green Cheese was only 100 Kgs. which increased to 130 Kgs. in the year 1984-85. In the year 1987-88, local sale of Green Cheese was 297 Kgs. which again increased to 1568 Kgs. in the year 1990-91.

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The details of production and sale of Table butter, another milk by-product production undertaken by the Government Milk Scheme, Miraj is given in the Table No.3.6.

Column No.3 in the table gives the data regarding total production of Table butter year-wise. In 1981-82, the total Table butter produced by the Government Milk Scheme, Miraj, was 59.8 thousand Kgs. which increased to 1.48 lakh Kgs. in 1983-84, a percentage increase of 23.72 percent over the previous year 1982-83 where the total production had actually declined as compared to the earlier year.

Total Table butter production increased to 4.77 lakh Kgs. in 1985-86 and went up further to 7.14 lakh Kgs. in 1987-88 and in 1990-91 however the production declined to 4.75 lakh Kgs. a percentage decline of 8.0 % over the previous year.

Sale of the Table-butter produced by the Government Milk Scheme, Miraj is mainly made to the following agencies:

- a) MAFCO,
- b) Government Milk Schemes in other areas,
- c) To the Modern Dairy, Pune,
- d) Dairy at Kurla; and
- e) Some small portion of the product is also sold in the local area market.

However of the above buyers:

- a] Kurla Dairy,
- b] MAFCO
- c] Other Government Milk Schemes are the major

TABLE NO.3.6

TABLE BUTTER PRODUCTION & SALE FROM 1981-82 TO 1990-91 BY GOVERNMENT

MILK SCHEME, A.P.R.A.J

Sr. No.	Year	Production Percent- age Change.	S A L E A N D D I S T R I B U T I O N										(In Kgs.)				FOR LOC?		
			For Packing Loss.	For Shee Produ.	For Pune gaon.	For Kore- Pune gaon.	For Pune gaon.	For Kore- Pune gaon.	For Pune gaon.	For Kore- Pune gaon.	For Pune gaon.	For Kore- Pune gaon.	For Pune gaon.	For Kore- Pune gaon.	For Pune gaon.	For Kore- Pune gaon.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1)	1981-82	59,822.0	-																
2)	1982-83	5,993.0	- 90.0																
3)	1983-84	1,46,157.0	+ 237.1																
4)	1984-85	4,71,610.0	+ 218.3																
5)	1985-86	4,76,930.5	+ 1.1																
6)	1986-87	5,16,346.0	+ 8.7																
7)	1987-88	7,14,079.0	+ 37.8	5,230	11,587.5	3,85,950	65,550	9,300	4,650	10	1,390	450	230	1,000	2,03,000	-	-	-	1872.
8)	1988-89	4,54,232.0	- 36.4	3,377	6,754.0	-	66,050	6,500	880	20	1,840	80	-	15,150	3,68,390	10	-	-	190.
9)	1989-90	5,16,675.0	+ 13.7	2,143	6,212.0	-	83,480	16,630	1,260	-	2,750	2,040	-	500	4,00,430	-	-	-	850.
10)	1990-91	4,74,881.0	- 8.0	4,476	5,160.0	-	1,14,060	11,600	17,970	-	5,100	-	-	1,000	2,98,650	-	14,150	-	370.

Source: As Table No.3.1

*G.S = Government Milk Scheme.

purchasers of the Table-butter produced by the Government Milk Scheme, Miraj. Data regarding sale of Table butter made by Government Milk Scheme, Miraj to the above agencies is presented in the Table No.3.7. Data is available from 1987-88 and hence data after 1987-88 is presented in the Table.

The Kurla Dairy is the leading purchaser of Table-butter produced by Government Milk Scheme, Miraj. In the year 1987-88 the Government Milk Scheme, Miraj sold nearly 2.0 lakh Kgs. of Table butter to the Kurla Dairy. This sale increased to 4.00 lakh Kgs. in 1989-90 and in the year 1990-91, it was 2.98 lakh Kgs. The percentage share purchased by Kurla Dairy, in the year 1987-88 was 28.2 % of the total Table butter produced by the Government Milk Scheme, Miraj. This percentage increased to 76.9 % in the year 1989-90 and in the year 1990-91 it was 62.9 %.

The next important buyer of Table butter produced by the Government Milk Scheme, Miraj is MAFCO. The Pune branch and Koregaon branch of MAFCO are the main buyers. MAFCO, Pune purchased nearly 65 thousand Kgs. of Table butter from the Government Milk Scheme, Miraj and this purchase increased to 83 thousand Kgs. in 1989-90 and was 1.14 lakh Kgs. in the year 1990-91. The percentage share purchased in the year 1990-91 by the Pune MAFCO was 24 % of the total table-butter produced by the Government Milk Scheme, Miraj. Purchase of Table butter by MAFCO, Koregaon increased from 9.0 thousand

WHITE BUTTER PRODUCTION & SALE BY GOVERNMENT MILK SCHEME, MIRAJ FROM 1981-82 TO 1990-91

Source: As Table No. 3.1

Kgs. in 1987-88 to 16.0 thousand Kgs. in the year 1989-90 and was 11.0 thousand Kgs. in 1990-91.

Sale of Table-butter by Government Milk Scheme, Miraj to other Government Milk Schemes namely at Pune, Worli, Satara etc., is also undertaken though the quantity purchased is not very substantial.

Local sale of 'Table butter' however, is a very small proportion of total production. For example in the year 1987-88 local sale of Table butter was 1.9 thousand Kgs. the percentage to total production is 0.26 %. In the year 1988-89 local sale was only 190 Kgs. which increased to 370 Kgs. in the year 1990-91.

The detail picture of production and sale of 'White-butter, another milk by-product produced by the Government Milk Scheme, Miraj is given in Table No.3.7.

Column No.3 in the table shows the data regarding total production of White-butter year-wise. In the year 1981-82 the total White-butter produced by the Government Milk Scheme, Miraj, was 5.9 lakh Kgs. which increased to 10.6 lakh Kgs. in the year 1983-84, and it further increased to 15.7 lakh Kgs. in the year 1985-86. In the year 1988-89, total production of White-butter was 15.0 lakh Kgs. which increased to 19.3 lakh Kgs. in the year 1989-90 and again declined to 9.4 lakh Kgs. in the year 1990-91.

In the year 1982-83 the percentage increase over the previous year was 36.9 %. After 1982-83 eventhough the total production of White butter goes on increasing the percentage change goes on diminishing. In the year 1986-87 the percentage decline was 8 % over the previous year 1985-86. In the year 1988-89 the percentage increase was 74 % over the previous year 1987-88 which shows a decline of 51 % in the year 1990-91 over the previous year 1989-90.

Sale of White butter produced by the Government Milk Scheme, Miraj, is mainly made to the following agencies:-

- a) MAFCO,
- b) Kurla Dairy,
- c) Sunrise Dairy, Pune,
- d) Delhi Milk Scheme; and ,
- e) Local Sale.

Of the above buyers - (a) MAFCO (b) Kurla Dairy and Sunrise Dairy, Pune are the major purchasers of the White butter, produced by the Government Milk Scheme, Miraj. Data regarding sale of white butter made by the Government Milk Scheme, Miraj to the above agencies is shown in the Table No.3.7 Data is available from 1987-88 and hence data after 1987-88 is presented in the Table.

The most important buyer of White butter produced by Government Milk Scheme, Miraj is MAFCO. The Pune branch, Worli,

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Thane and MAFCO, Turbhe are the main buyers. MAFCO, Pune purchased nearly 4.4 lakh Kgs. of White butter in the year 1987-88 which increased to 8.8 lakh Kgs. in 1989-90 and declined to 4.6 lakh Kgs. in 1990-91. The percentage share purchased by MAFCO, Pune was 50.6 % in the year 1987-88 of the total White butter produced by Government Milk Scheme, Miraj, which slightly declined to 48.9 % in the year 1990-91. Purchase of White butter by MAFCO, Worli was 2.5 lakh Kgs. in 1987-88 which declined to 69 thousand Kgs. in the year 1988-89. The percentage share purchased by MAFCO, Worli was 28.7 % of the total production of White butter in the year 1987-88, Purchase of MAFCO, Thane increased from 20 thousand Kgs. to 3.9 lakh Kgs. during the year 1988-89 to 1989-90. The percentage share purchased by MAFCO, Thane was 20.2 % in the year 1989-90. MAFCO, Turbhe purchased 88 thousand Kgs. of White butter in the year 1988-89 which increased to 1.74 lakh Kgs. in the year 1989-90. The percentage share purchased by MAFCO, Turbhe was 11.3 % in the year 1989-90.

The next important buyer of the White-butter produced by the Government Milk Scheme, Miraj was Kurla Dairy. In 1987-88 the Government Milk Scheme, Miraj sold 80 thousand Kgs. of White butter to the Kurla Dairy and this sale increased to nearly 3.9 lakh Kgs. in 1989-90. The percentage share purchased in the year 1989-90 was 20.2 % of the total White butter production of Government Milk Scheme, Miraj.

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In the year 1990-91 total sale of White butter to Kurla Dairy was 2.8 lakh Kgs.

Another purchaser of White butter was Sunrise Dairy, Pune. In 1987-88, Government Milk Scheme, Miraj sold 50 thousand Kgs. of White butter to the Sunrise Dairy, Pune and this sale increased to nearly 3.7 lakh Kgs. in 1988-89 and in the year 1990-91 it was 28 thousand Kgs.

The Delhi Milk Scheme, purchased 1.7 lakh Kgs. of White-butter only in the year 1990-91. Local sale of white butter during the year 1989-90 was 56 thousand Kgs. and in the year 1990-91 it was 22 thousand Kgs. only.

The details regarding production and sale of 'Ghee' undertaken by Government Milk Scheme, Miraj is given in the Table No.3.8.

Column No.3 in the table shows the data regarding the total production of Ghee year-wise. In the year 1981-82 total production of Ghee produced by Government Milk Scheme, Miraj, was 2.2 thousand Kgs. which increased to 66.5 thousand Kgs. in the year 1983-84, which further increased to 2.2 lakh Kgs. in the year 1986-87. From the year 1981-82 to 1986-87 the total production of Ghee goes on increasing successively. In the year 1987-88 the total production of Ghee was declined to 1.4 lakh Kgs. in the year 1989-90 it again increased to 1.6 lakh Kgs. and in the year 1990-91 it was 1.0 lakh Kgs.

TABLE NO.3.8

GHEE PRODUCTION & SALE FROM 1981-82 TO 1990-91 BY GOVERNMENT MILK SCHEME, MIRAJ

(In Kgs.)

Sr. No.	Year	Production Percent- age	D I S T R I B U T I O N										
			Change.	Kurda Dairy	Worli MAFCO	Kanka- wali GMS*	Ratnagi- ri GMS*	Mahaba- leshwar GMS*	Pune GMS*	MAFCO, Bombay	Kerla	Tamil Nadu	Local
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1)	1981-82	-	-	2,150.5	-	-	-	-	-	-	-	-	-
2)	1982-83	-	48.39	3,146.0	-	-	-	35.0	22,540.0	-	-	-	1,208.5
3)	1983-84	-	2014.58	66,524.6	-	-	105.0	-	5,460.0	39,825.0	-	-	1,555.5
4)	1984-85	-	65.63	1,10,184.8	-	-	210.0	-	23,590.0	9,000.0	12,960.0	27,000.0	3,160.5
5)	1985-86	-	58.04	1,74,134.4	-	-	-	35.0	-	-	-	-	909.0
6)	1986-87	-	28.50	2,23,762.4	-	-	-	-	-	-	-	-	1,208.5
7)	1987-88	-	35.93	1,00,835	21,150.0	630.0	35.0	35.0	22,540.0	-	-	-	1,208.5
8)	1988-89	-	52.56	42,560	-	-	-	-	5,460.0	39,825.0	-	-	1,555.5
9)	1989-90	-	140.21	1,34,435	-	805.0	105.0	-	-	-	-	-	1,555.5
10)	1990-91	-	38.71	29,120	16,000.0	-	210.0	-	23,590.0	9,000.0	12,960.0	27,000.0	3,160.5

Source: As Table No.3.1

*G.S. = Government Milk Scheme.

The percentage increase in the total production of Ghee in the year 1982-83 was 48.9 % over the previous year, which increased to 2015 % in the year 1983-84. From the year 1983-84 onwards the percentage increase over the previous year goes on declining eventhough the total production of Ghee goes on increasing. In the year 1988-89 the percentage change shows decline of 53 % over the previous year and in the year 1990-91 it again declined to 39 % over the previous year.

Sale of the Ghee produced by the Government Milk Scheme, Miraj is mainly made to the following agencies:-

- a) Kurla Dairy,
- b) MAFCO,
- c) Government Milk Schemes in other areas,
- d) Other private parties,
- e) Local sale; in some small portion of the total produce is also sold in the local area market.

However, of the above buyers:-

- a) Kurla Dairy,
- b) MAFCO are the major purchasers of the Ghee, produced by the Government Milk Scheme, Miraj. Data regarding sale of Ghee made by Government Milk Scheme, Miraj to the above agencies is presented in the Table No.38, Data is available from the year 1987-88 and hence data after 1987-88 is presented in the Table.

The Kurla Dairy is the leading purchaser of Ghee produced by the Government Milk Scheme, Miraj. In the year 1987-88 the Government Milk Scheme, Miraj sold nearly 1.0 lakh Kgs. of the Ghee to the Kurla Dairy and this sale increased to 1.34 lakh Kgs. in 1989-90 and in 1990-91 it was 29.1 thousand Kgs. only. The percentage share purchased by Kurla dairy in the year 1987-88 was 71.4 % of the total Ghee produced by the Government Milk Scheme, Miraj which increased to 81.3 % in the year 1989-90.

The next important buyer of Ghee produced by the Government Milk Scheme, Miraj, is MAFCO. The Worli branch and Bombay branch of MAFCO are the main buyers. Worli MAFCO purchased nearly 22.0 thousand Kgs. in the year 1987-88 which declined to 18.0 thousand Kgs. in 1990-91. The percentage share purchased by MAFCO, Worli, was 15 % of the total Ghee production in the year 1987-88. Purchase of Ghee by MAFCO, Bombay was 39.8 thousand Kgs. in the year 1989-90 which declined to 9.0 thousand Kgs. in the year 1990-91. The percentage share purchased by MAFCO, Bombay in the year 1989-90 was 24.4 % of the total Ghee production in that year.

Sale of Ghee by Government Milk Scheme, Miraj to other Government Milk Schemes namely Kankawali, Ratnagiri, Mahabaleshwar and Pune etc., also undertaken though the quantity purchased is not very substantial.

Other private parties also purchased Ghee from the Government Milk Scheme, Miraj but only in the year 1990-91 the total of which was nearly 40 thousand Kgs.

Local sale of Ghee by Government Milk Scheme, Miraj, however, is a very small proportion of total production. For example local sale of Ghee in the year 1987-88 was 909 Kgs. which increased to 1.6 thousand Kgs. in the year 1989-90 and again it further increased to 3.1 thousand Kgs. in 1990-91.

The details of production and sale of Skimmed Milk Powder (S.M.P.), another milk by product undertaken by the Government Milk Scheme, Miraj is given in Table No.3.9(a) and 3.9(b).

TABLE NO.3.9(a)
PRODUCTION OF SKIMMED MILK POWDER BY
GOVERNMENT MILK SCHEME, MIRAJ FROM 1981 TO 1991

(In Kgs.)

Sr.No.	Year	Production
1)	1981-1982	... 7,17,625
2)	1982-83	... 10,87,350
3)	1983-84	... 17,41,800
4)	1984-85	... 27,69,089
5)	1985-86	... 33,00,600
6)	1986-87	... 32,16,325
7)	1987-88	... 19,45,075
8)	1988-89	... 32,55,650
9)	1989-90	... 42,31,675
10)	1990-91	... 32,31,475

Source: As Table No.3.1

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Column No.3 in the Table No.3.9(a) gives the data regarding total production of Skimmed Milk Powder year-wise. In 1981-82 the total Skimmed Milk Powder produced by the Government Milk Scheme, Miraj was nearly 7.2 lakh Kgs., which increased to 17.4 lakh Kgs. in 1983-84 a percentage increase of 60 % over the previous year 1982-83. Again Skimmed Milk Powder production increased to 33 lakh Kgs. in 1985-86 which declined to 19.5 Kgs. in 1987-88, a percentage decline of nearly 40% over the previous year. Again the total production increased to 42.3 lakh Kgs. in the year 1989-90 a percentage increase of 30 % over the previous year 1988-89. In 1990-91 the total Skimmed Milk Powder production was 32.3 lakh Kgs., however, the percentage decline of nearly 24 % over the previous year.

Sale of the Skimmed Milk Powder produced by the Government Milk Scheme, Miraj is mainly made to the following agencies, which is shown in the Table No.3.9(b).

- a) Aarey,
- b) MAFCO, Worli, Goa, Bombay,
- c) Kurla Dairy,
- d) Other private companies and states etc.
- e) Some small portion of the product is also sold in the local area market.

However of the above buyers:

- a) Aarey,
- b) MAFCO,
- c) Kurla Dairy, are the major purchasers of Skimmed

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TABLE NO. 3.9 (b)

SALE OF SKIMMED MILK POWDER FROM 1981-82 to 1990-91
BY GOVERNMENT MILK SCHEME, MIRAJ

(In Kgs.)

Sr. No.	Sale of S.M.P. To	1987-88	1988-89	1989-90	1990-91
1)	Aarey	11,29,000	15,00,000	70,000	30,000
2)	Reptocas Thane,	20,000	-	-	-
3)	Kurla Dairy	5,30,000	1,10,200	-	-
4)	Worli MAFCO	7,86,300	5,50,000	10,000	-
5)	M.M.F. Goa	30,000	-	-	27,000
6)	Goregaon	50,000	-	-	-
7)	Bhopal	1,30,000	-	-	-
8)	Gujarat	29,425	-	-	-
9)	Yalgud, Kolhapur	1,000	-	-	-
10)	Pune GMS*	95,000	10,000	500	-
11)	Kankavali GMS*	-	1,875	8,900	10,500
12)	Bhuvaneshwar	-	1,00,000	-	10,000
13)	Trivandrum	-	44,625	93,325	73,000
14)	High Fat Milk Use.	-	163	-	-
15)	Belgaum/Manglore	-	-	31,825	-
16)	MAFCO, Bombay	-	9,000	-	-
17)	Calcutta	-	1,26,000	27,000	-
18)	Delhi	-	-	-	4,98,150
19)	Local	-	-	4,98,150	5,825

Source: As Table No. 3.1

*GMS = Government Milk Scheme.

Milk Powder produced by the Government Milk Scheme, Miraj. Data regarding sale of Skimmed Milk Powder made by the Government Milk Scheme, Miraj to the above agencies is presented in the Table No. 3.90. Data is available from 1987-88 and hence data after 1987-88 is presented in the Table.

Aarey is the leading purchaser of Skimmed Milk Powder produced by the Government Milk Scheme, Miraj. In the year 1987-88 the Government Milk Scheme, Miraj sold nearly 11.3 lakh Kgs. of Skimmed Milk Powder to the Aarey and this sale increased to 15.0 lakh Kgs. in the year 1988-89. In the year 1989-90 it was 70 thousand Kgs. which declined to 30 thousand Kgs. in 1990-91. The percentage share sold to Aarey was 57.9 % of the total Skimmed Milk Powder produced by Government Milk Scheme, Miraj in the year 1987-88 which declined to 46 % in the year 1988-89 and in the year 1990-91 it was only 0.9 %.

Another important buyer of Skimmed Milk Powder produced by Government Milk Scheme, Miraj is MAFCO. The Worli branch and Bombay branch of MAFCO are the buyers. Worli MAFCO purchased nearly 7.9 lakh Kgs. of Skimmed Milk Powder from Government Milk Scheme, Miraj in the year 1987-88 which declined to 5.5 lakh Kgs. in 1988-89. The percentage share purchased by MAFCO Worli was 40.5 % of the total production

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of Skimmed Milk Powder produced by Government Milk Scheme, Miraj in the year 1987-88 which declined to 16.9 % in the year 1988-89. In the year 1989-90 MAFCO, Worli purchased only 10 thousand Kgs. of Skimmed Milk Powder from the Government Milk Scheme, Miraj. MAFCO, Bombay purchased 9.0 thousand Kgs. of Skimmed Milk Powder from Government Milk Scheme, Miraj in the year 1989-90.

The third important buyer of Skimmed Milk Powder from Government Milk Scheme, Miraj was Kurla Dairy. In the year 1987-88 Kurla Dairy purchased 5.3 lakh Kgs of Skimmed Milk Powder from Government Milk Scheme, Miraj which declined to 1.1 lakh Kgs. in the year 1988-89.

The Milk Marketing Federation, Goa purchased 30 thousand Kgs. of Skimmed Milk Powder in 1987-88 and 27 thousand Kgs. of Skimmed Milk Powder during the year 1990-91.

The Government Milk Schemes of other States also purchased Skimmed Milk Powder from Government Milk Scheme, Miraj. Those are Bhopal, Gujarat, Bhuwaneshwar, Trivandrum, Calcutta, Delhi and Karnataka etc., Among these purchasers Bhopal Sangh purchased 1.3 lakh Kgs. of Skimmed Milk Powder from Government Milk Scheme, Miraj in the year 1987-88, kajkot and Bhuwaneshwar dairy, Gujarat purchased 30 thousand Kgs. of Skimmed Milk Powder in the same year. Bhuwaneshwar Dairy purchased nearly 1.0 lakh Kgs. of Skimmed Milk Powder

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in the year 1988-89. Trivandrum Dairy purchased 45 thousand Kgs. of Skimmed Milk Powder in the year 1988-89 which increased to 94 thousand Kgs. in 1989-90 and it was 73 thousand Kgs. in 1990-91. Calcutta Dairy purchased 1.3 lakh Kgs. of Skimmed Milk Powder in the year 1989-90 and in the year 1990-91 it was only 27 thousand Kgs. In the year 1990-91 Delhi Milk Scheme purchased nearly 5.0 lakh Kgs. of Skimmed Milk Powder.

Sale of Skimmed Milk Powder by Government Milk Scheme, Miraj to other Government Milk Schemes in Maharashtra namely Pune, Kankawali etc., is also undertaken though the quantity purchased is not very substantial.

Local sale of Skimmed Milk Powder, however, is very small proportion of total production. For example in the year 1989-90, local sale of Skimmed Milk Powder was 2.8 thousand Kgs. and in the year 1990-91 it was 5.8 thousand Kgs.

: SECTION - III :

3.4

::CONCLUSIONS::

I) DAIRY SOCIETIES' STRUCTURE IN SANGLI DISTRICT:

In Sangli District there is no District Co-operative Milk Federation. So the Government Milk Scheme, Miraj acts as the District Milk Federation. The Taluka Milk Sanghs namely, 'Krishna Khore Dudh Utpadak Purvatha Sangh Ltd.,

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Miraj, 'Rajaram Bapu Dudh Utpadak Sangh Ltd., Walwa', Shetkari Sahakari Dudh Utpadak Sangh, Kavathe-Mahankal, 'Khanapur Sangh', 'Vasant Dada Zilla Dudh Utpadak Sahakari Sangh Ltd., Sangli', Jat, Tasgaon, Shirala and Atpadi procure milk in their respective talukas and send the milk to the Government Milk Scheme, Miraj for further processing. Taluka Co-operative Sanghs procure the milk from Primary Co-operative Milk Societies in villages. In Many villages, there are more than one Primary Co-operative Milk Societies. This structure of Dairy Societies is not like the 'Anand Pattern' which is found in Gujarat State.

II) PROCUREMENT OF MILK:

The total milk procured by the Government Milk Scheme, Miraj in the year 1981-82 was 14.29 lakh litres, which increased to 21.03 lakh litres in the year 1985-86 and in the year 1990-91 it was 18.11 lakh litres. The percentage increase in procurement of milk in the year 1990-91 was 26.7 % over the year 1981-82.

The procurement of milk Sangh-wise shows that 'Krishna Khore Sahakari Dudh Utpadak Puravatha Sangh Ltd., Miraj is highest in milk procurement. This Sangh procured 4.70 lakh litres of milk in the year 1981-82 which increased to 5.39 lakh litres in the year 1985-86 and in the year 1990-91 it procured 3.04 lakh litres of milk. The percentage share of Krishna Khore Dudh Sangh, Miraj in total procurement of

milk by Government Milk Scheme, Miraj in the year 1981-82 was 32.9 % which declined to 16.8 % in the year 1990-91.

Rajaram Bapu Patil Sahakari Dudh Utpadak Sangh Ltd., Walwa is second larger milk Sangh in procurement of milk. It procured 3.19 lakh litres of milk in the year 1981-82 which declined to 2.18 lakh litres in the year 1990-91. The percentage share of this Sangh in total procurement of milk was 22.3 % in the year 1981-82 which declined to 12.0 % in the year 1990-91.

Shetkari Sahakari Dudh Utpadak Sangh Ltd., Kavathe-Mahankal procured 1.0 lakh litres of milk in the year 1981-82 which increased to 4.75 lakh litres in the year 1990-91. The percentage share of this Sangh in total procurement of milk, in the year 1981-82 was 7.0 % which increased to 26.3 % in the year 1990-91.

Vasant Dada Zilla Sahakari Dudh Utpadak Sangh, Tasgaon procured 1.37 lakh litres of milk in the year 1981-82 which increased to 1.60^{lakh} litres in the year 1990-91. The percentage share of this Sangh in total procurement was 9.6 % in the year 1981-82 which declined to 8.8 % in the year 1990-91.

Vasant Dada Sangh, Jat procured 0.54 lakh litres of milk in the year 1981-82, which increased to 1.05 lakh litres of

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milk in the year 1990-91. The percentage share in the total procurement of milk of this Sangh was 3.8 % in the year 1981-82 which increased to 5.8 % in the year 1990-91.

Khanapur Sangh procured 0.11 lakh litres of milk in the year 1981-82 which increased to 1.22 lakh litres of milk in 1990-91. The percentage share in total procurement of milk was 0.8 % in the year 1981-82 which increased to 6.7 % in 1990-91.

Vasant Dada Sangh, Shirala procured 1.01 lakh litres of milk in the year 1981-82 which declined to 0.64 lakh litres in the year 1990-91. The percentage share in total procurement of milk of this Sangh was 7.1 % in the year 1981-82 which declined to 3.3 % in 1990-91.

Vasant Dada Dudh Sangh, Atpadi procured 0.13 lakh litres of milk in the year 1981-82 and 0.26 lakh litres in the year 1990-91. The percentage share in total procurement was 0.9 % in the year 1981-82 and in 1990-91 it was 1.4 %.

Other milk schemes procured 2.24 lakh litres of milk in the year 1981-82 which increased to 3.37 lakh litres in the year 1990-91. The percentage share of other schemes in the total procurement of milk was 15.7 % in the year 1981-82 which increased to 18.7 % in 1990-91.

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III) SALE OF WHOLE-MILK:

The sale of whole-milk by the Government Milk Scheme, Miraj, to Bombay and other regions was 11.00 lakh litres out of total procured milk 14.29 lakh litres in the year 1981-82. This declined to 1.91 lakh litres in the year 1990-91 out of the total procurement of 18.11 lakh litres. The percentage share of sale of whole-milk out of total procurement of milk was as high as 77.0 % in 1981-82, it declined to 10.5 % in 1990-91. This decline is mainly due to growth in milk by-product production by the Government Milk Scheme, Miraj.

IV) MILK BY-PRODUCT PRODUCTION:

a) Green Cheese:

The Government Milk Scheme, Miraj produced 2.3 thousand Kgs. of Green Cheese in the year 1981-82 which increased to 40.9 thousand Kgs. in 1990-91, which shows a growth of more than seventeen times during the period of ten years. The major buyers of Green Cheese are MAFCO, Pune, MAFCO, Bombay and other private parties. In 1981-82 MAFCO, Pune purchased nearly 1.4 thousand Kgs. of Green Cheese which increased to 3.3 thousand Kgs. in 1990-91. MAFCO, Bombay purchased 1.1 thousand Kgs. of Green Cheese in the year 1990-91. Other private parties purchased 1.1 thousand Kgs. of Green Cheese in the year 1981-82 which increased to 8.9 thousand Kgs. in 1990-91.

b) Table Butter:

Government Milk Scheme, Miraj produced 59.8 thousand Kgs. of Table butter in the year 1981-82 which increased to 4.75 lakh Kgs. in 1990-91. This means nearly eight times increase in the production of Table butter over the year 1981-82. Major buyers of Table butter are MAFCO, Other Government Schemes and Kurla Dairy. Kurla Dairy purchased 2.03 lakh Kgs. Table butter in the year 1987-88 which increased to 2.98 lakh Kgs. in 1990-91. MAFCO, Pune purchased nearly 65 thousand Kgs. of Table butter in the year 1987-88 which increased to 1.14 lakh Kgs. in the year 1990-91.

c) White Butter:

Government Milk Scheme, Miraj produced 5.86 lakh Kgs. of White butter in the year 1981-82 which increased to 9.38 lakh Kgs. in the year 1990-91, this means a 60 % increase in the production of White butter over the year 1981-82. The major purchasers of White butter are MAFCO and Kurla Dairy. The branches of MAFCO namely Pune, Worli, Thane and Turbhe are the main buyers of White butter. They purchased 6.85 lakh Kgs. of White butter in the year 1987-88. Kurla Dairy purchased 80.0 thousand Kgs. of White butter in the year 1987-88 which increased to 2.79 lakh Kgs. in 1990-91.

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d) Ghee:

Government Milk Scheme, Miraj produced 2.1 thousand Kgs. of Ghee in the year 1981-82 which increased to 1.0 lakh Kgs. in the year 1990-91. This means more than forty-seven times increase in the production of Ghee during the period of ten years i.e. 1981-82 to 1990-91. Main purchasers of Ghee, produced by the Government Milk Scheme, Miraj are Kurla Dairy and MAFCO, Worli. Kurla Dairy purchased 1.0 lakh Kgs. of Ghee in the year 1987-88 and in the year 1990-91 it purchased 29 thousand Kgs. of Ghee. MAFCO, Worli purchased 21.1 thousand Kgs. of Ghee in 1987-88 and in the year 1990-91 it purchased 18.0 thousand Kgs. of Ghee.

e) Skimmed Milk Powder:

The Government Milk Scheme, Miraj produced 7.18 lakh Kgs. of Skimmed Milk Powder (S.M.P.) in the year 1981-82 which increased to 32.31 lakh Kgs. in 1990-91, which shows a growth of more than four and half times in the production of Skimmed Milk Powder during the period 1981-82 to 1990-91. The major purchaser of Skimmed Milk Powder is Aarey. Aarey purchased 11.29 lakh Kgs. of Skimmed Milk Powder in the year 1987-88 and in the year 1990-91 it purchased 30.0 thousand Kgs. of Skimmed Milk Powder. Kurla Dairy purchased 5.30 lakh Kgs. of Skimmed Milk Powder in the year 1987-88

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and in the year 1988-89 it purchased 1.10 lakh Kgs. MAFCO, Worli purchased 7.86 lakh Kgs. of Skimmed Milk Powder in the year 1987-88 and in 1988-89 it purchased 5.50 lakh Kgs. of Skimmed Milk Powder.

V) The above details of by-product production by the Government Milk Scheme, Miraj adequately prove that the Government Milk Scheme, Miraj with increase in daily procurement of milk from the Taluka Co-operative Sanghs, has curtailed its sale of whole milk which was essentially for the Bombay region. To avoid this dependency on a single market for sale of whole-milk, it has entered into milk by-product production for which there is a demand from other agencies like MAFCO and other dairy units.

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