CHAPTER-IV

IMPACT OF VARIOUS SCHEMES OF BHOGAWATI FACTORY
ON SMALL AND MARGINAL FARMERS.

- Development of the Area in General.
- Sugarcane Development And Agricultural Development.
- Economic Development.
- Social Welfare Activities.
- Cropping Pattern.
- Subsidiary Occupations.
- Conclusion.

Measuring impact of various schemes of Bhogawati
Factory (or for that matter any suger factory) on small and
marginal farmers coming under the area of its jurisdiction
is a formidable task. This, the researcher has tried to
measure with the help of data collected through the questionnaire administered on 107 small and marginal farmers in the
selected five villages of both Radhanagari and Karveer
Talukas.

Impact is tried to be measured under the following heads:

- 1. Development of Area in general.
- 2. Agricultural Development and Sugarcane development.
- 3. Economic Development.
- 4. Social Welfare.
- 5. Cropping Pattern.
- 6. Subsidiary Occupations.

Development of the Area in General:

In the Table No.4.1 gives the details of responses from 107 respondents to the questions concerning development of the area in general that took place because of the Bhogawati Factory.

The questions asked related to the various aspects of the development of the area in general and the positive responses received to the questions on such aspects.

Table No.4.1 : Statement showing the Development of Area in general.

Sr.: Item	of Benefits	Name of the vests to the quebease searches in Dewale: Parite	the v	& w.i	Gudal	positive respon-	1 44 44	Total (and per-
••		••		:wade Bk:	***************************************	wadi:		
1. Employment pote rural areas.	Employment potentialities created in rural areas.	76	55	25	59	īC	26	(81%)
2. Increase in tra facility.	Increase in transport & communication facility.	16	22	25	30	ιC	98	(85%)
3. Scope for subsi	Scope for subsidiary occupations	76	22	25	20	Ŋ	88	(82%)
4. Increase in Sta	Increase in Standard of living	16	22	25	25	5	93	(81%)
5. Higher educatio	Higher education facilities for children	16	22	25	58	rs.	96	(88%)
6. Increase in Med	Increase in Medical facilities	16	22	24	24	5	16	(85%)
7. Increase in annual income	nual income	13	22	23	23	·rv	98	(80%)
8. Increase in com	Increase in commerce and industries	14	22	24	20	īV	85	(%6L)
9. Timely supply of credit	of credit	76	15	20	28	rV.	98	(%08)
10. Competition to	Competition to earn higher income	19	16	24	25	5	89	(83%)
11. Implimentation	Implimentation of new farm practices	15	18	ឥ	58	īυ	87	(81%)
12. Use of improved fertilizers, and seeds	d fertilizers, pesticides	16	18	. 22	88	Ŋ	89 ((83%)
13. Diversified cul	Diversified cultivation facilitated	76	18	7	24	ľΩ	85 ((%6L)
14. Increase in wat	Increase in water supply and yield per acre	76	18	18	27	īU	85	(%6L)
15. National Programmes Houses to landless lawould be implemented	National Programmes like family welfare, Houses to landless labourers & bio-gas etc. would be implemented	16	18	12	25	ſ.	98	(80%)
16. Average savings increased	s increased	15	18	20	56	Ŋ	84	(484)

Source : Compiled from the Questionnaires collected from 107 respondents.

From the Table No.4.1, it is clear that the small and marginal farmers in the five sample villages felt that they have reaped the benefits from the general development of the area. For example, all the five respondents from village Kamabalwadi feel that they have benefited in respect of all the 16 aspects of the general development. More than 78.5% of the respondents feel that they have reaped the benefits. In case of some of these development aspects, as high as 92% of the respondents have reaped the benefits.

Sugarcane Development and Agricultural Development

The Bhogawati Factory has introduced various sugarcane and agricultural development schemes for the economic development of the small and marginal farmers.

Table No.4.2 shows the details of various schemes implemented by the Bhogawati Factory and the responses given by 107 respondents from the selected villages.

From the Table (No.4.2), it is observed that majority of the Small and Marginal farmers have benefited from the above schemes.

The agricultural development schemes like supply of horticultural plants and press-mud are most popular from the

Table No.4.2: Statement showing the number of beneficiaries of Schemes of Agricultural Development & Sugarcane Development introduced by the Bhogawati Factory.

ì	No.:	Name	of the	Village Scheme	&No.of Bene	Beneficia-	: Total :(and per-
	,	:Dewal	arit	Rashi	- :Kambal-	Gudal	ente
	• ••	76	23	. 26	. 5	37	: 107
(A	Agricultural Development Schemes :						
	1. Lift Irrigation Schemes	15	12	႕	5	T	44 (41%)
	2. Subsidy for plantation of Adsali sugarcane	ω	18	ส	Т	10	58 (54%)
	3. Pilot Project Scheme	8	9	4	ιc	Н	18 (17%)
	4. Supply of horticultural plants	15	20	19	ſΩ	35	94 (88%)
	5. Supply of press-mud	12	18	25	4	35	94 (88%)
B	Schemes for Sugarcane development:						
	1. Seed Nursery	Н	16	6	₹.	ω	39 (36%)
	2. Cane crop competetion/prizes	α	ω	9	1	7	18 (17%)
	 Supply of improved seeds, fertilizers and pesticides 	rC	13	13	ľ	М	39 (36%)
	4. Smut Centrol Scheme	10	18	10	S	35	78 (73%)
	5. Grop Protection and cultivation	1	ŧ	1	ŧ	1	ŧ
	6. Soil Testing Scheme	10	13	9	5	7	36 (34%)
	7. Supply of sprayers	1	9	7	М	3	14 (13%)
	8. Guidance-Seminars & Tours of the farmers	9	H	2	8	8	27 (25%)

Source : Compiled from the Questionnaires collected from 107 respondents.

point of view of the shareholders than any other schemes. The 94 respondents out of 107 have benefited from these schemes.

However, it is observed from above table that the schemes like Pilot Project, Cane-crop competition, supply of sprayers, guidance seminars and tours have got poor response.

Table No.4.2, further indicates that the respondents from village Kambalwadi are more alert in taking benefits of the said schemes. Village Parite and Dewale stand second and third in taking benefits of these schemes. The respondents from village Rashivade Bk. and Gudal are some what less interested in these schemes.

Economic Development

These mainly include the schemes like assistance to backward class - cane grower members, bio-gas and employment generation etc. These schemes have been provided by the Bhogawati factory for the benefit of the Small and Marginal farmers. Table No.4.3 gives the details of the beneficiaries of these scheme.

Table No.4.3 shows that the number of beneficiaries of Economic and other schemes implemented by the Bhogawati factory in selected villages.

Table No.4.3: Statement showing the number of Beneficiaries of Economic and other Schemes implemented by the Bhogawati Factory in Selected Villages.

Sr. No.						village enefici		cted	l an	d:[Cota	L: :	%
	•	Dev	wale	P:	arite	Rashi	udal			Ι:		:	
	•	: :	16	:	23	:vade :Bk.26	37		adi 5	:	107	:	······
	Assistance to Backward Class members.		-		1	2	-				03	week	(3%)
2.	Bio-gas Scheme	:	12		7	7	17		3		46	₹	43%)
3•	Employment Generation		3		6	6	2	·	2		19	{	18%)

Source: Collected from the Questionnaire collected from 107 respondents.

Table (No.4.3) shows that the bio-gas scheme has the highest response. Out of 107 respondents 46 small and marginal farmers have taken advantage of this scheme.

In case of employment generation 19 out of 107 i.e. nearly 18% have sought employment in the Bhogawati Factory. However, it should be noted that nearly 5000 to 6000 small and marginal farmers and landless labours are provided with seasonal employment during the crushing season every year. As these farmers are not the members of the Bhogawati Factory they are not covered the sample survey.

The response for financial assistance to backward class (Harijans and Nav-Budhas) shows negligible response as 3 out of 107 respondents benefited from this scheme. The reason behind low response is that, this scheme is mainly meant for B.C. communities.

In addition to the above schemes for improving the economic condition of the small and marginal farmers the Table Nos.4.4, 4.5, 4.6, 4.7 and 4.8 provide important indicators, which are useful for measuring the impact.

It is clear from the Table No.4.4 that how the net income increased during the last five years.

Table No.4.4 : Statement showing the Income of the selected respondents from various sources.

1				lumber of	Responde	nts in t	Number of Respondents in the Income groups	groups		
No. the village	Rs.0 to 5000	:Rs.5000	1979-80 Rs.0 to:Rs.5000 :Rs.10000:Rs. 5000:to 10000:to 15000:to	Rs.15000:Rs. to 20000:8	:Rs.20000	RB.0 tc	0 to:Rs.5000:Rs. 5000:to 1000:to	1985-84 Rs.10000:F to 15000:t	Rs.15000:Rs.20000:Rs.0 to:Rs.5000:Rs.10000:Rs.15000:Rs.20000 to 20000: & above: 5000:to 1000:to 15000:to 20000: & above	3.20000 c above
1. Dewale	Ø	10	4	1	t	~	ω	к.	7	-
2. parite	17	10	α	ī	t	6	ω	4	Ø	1
3. Rashivade Bk.	24	8	1	1	t .	77	4	Н	1	1
4. Gudal	28	6	1	1	1	18	19	1	ŧ	1
5. Kambal- wadi	Н	W	Н	1	1	Н	Н			1
Total :	99	34	7	l 1 1 1	1 1	. 51	40	17	4	н

Source : Compiled from the Questionnaires collected from 107 respondents.

In the year 1979-80, out of 107 respondents 66 were below income group of Rs.5,000/-; 34 were in-between Rs.50010 to 10,000/- income group and 7 were in-between Rs.10,0010 to Rs.15,000/- income group. However, in 1983-84, the income position changed. The income of 4 respondents increased upto Rs.20,000/- while one respondent's income increased above Rs.20,000/- per annum. Increase in Household and other appliances is shown in Table No.4.5.

From the Table No.4.5, it is clear that the household equipments and other appliances have increased during the span of period from 1979-80 to 1983-84.

It is observed that in the wake of the emergence of the Bhogawati Factory the small and marginal farmers who were not able to earn their living, have been able to purchase useful domestic appliances like fans, radios, tape-records and autos etc.

Agricultural equipments and other appliances belonging to the 107 respondent small and marginal farmers can be shown on Table No.4.6.

Table No.4.6 throws light on the agricultural and other appliances used by the respondent small and marginal farmers during the 5 years.

Table No.4.5 : Statement showing the Household Equipments and Appliances of the Respondent farmers in five villages

Sr.	Sr.:Item of ::	Dev	Dewale(1	Respo	Respondents havi	ts having Parite (23		ousehold F Rash	Equipments	ents and Bk. (26):	8	pliances Gudal(37		Kamba	Kambalwadi	(5)
)) 	7	1979- 80	1983	Incre	1979-	1983-	Incre:-ase	1979- 80	1 1	ncr	1979	1983- 84	Incre -ase	1 4 1	** ** **	Incre-
-	Cycles	6	6	1	19	19	1	9	<i>L</i>	Т	4	5	T	٦	Н	t
2.	Auto- cycles	2	8	i	1	Н	Н	H	M	OJ.	-	~	Н	1	1	ŧ
3.	Scooters	1	႕	Н	ì	1	1	Н	ત	Н	1	٦	Н	1	1	1
4	Sewing machine	1	1	1	•	N	N	ч	4	М	М	М	1	1	N	Ø
5	Fans	m	5	N	t	1	1	႕	2	2	ı	ı	i	1	Н	Н
•	Electric Heater/ Stoves	t	•	1	Н	ч	t	t	Н	Н	1	1	1	1	1	1
7.	Gas Heater/ Stoves	1	t	i	1	1	t	1	1	1	-	Н	1	Н	Н	1
ထံ	Bio-gas stoves	9	10	4	H	H	1	N	7	Ŋ	1	4	Н	М	4	Н
9	Tables	12	15	M	ω	11	М	5	ω	8	17	22	5	ì	0	7
10.	Chairs	33	44	Ħ	ω	18	10	32	38	9	32	57	25	CJ	2	Н
اسا م	Radios	13	14	Н	ω	12	4	18	7	23	15	20	5	1	4	4
12.	Tape- Recorders	2	5	N	н	0	٦	1	1	1	1	1	•	1	•	•

Source : Compiled from the Questionnaire collected from 107 respondents.

other Appliances of the Respondents in five villages. Table No.4.6 : Statement showing the Agricultural Equipments and

No.:tural Eq-:		Dewale(16)		Pa	Parite(23)		Rashir	vade E	Rashivade Bk. (26):	Gudal(117 \	h	Kambalwadi	alwa	١.	143
uipments: & other :197. Appliances 80	1979- 80	:1983 :84	: 1979-:1983-:Incrs:1979-:1983-:1 s 80 : 84 :/Dec.: 80 : 84 :/	1979- 80	:198 7- :84	ncrs Decs	1979- 80	:1983- :84	:/Decs: 80	1979-	:1983- :84	Incrs: 79	168	83 7- 84	In// Dec	1n 83-
Plough	76	15	(-1)	13	15	+2	17	17	1	52	53	7	13	13	t	113
Furrow	15	15	1	12	13	다+	17	17	1	36	36	1	9	9	1	87
Bullocks	だ	ส	1	18	17	(1)	22	22	1	53	53	ı	ω	9	(-5)	119
Bullock- cart	10	10	1	4	4	1	12	10	(-5)	24	22	(-5)	M	Н	(-1)	47
Oil-Engines	- 1	Н	1	7	7	1	ω	6	+ 1	9	Ω.	(-1)	H	Н	1	23
Electric Motor s	ı	1	1	Ω.	ω	+	7	3	7	Н	Н	1	1	3	+2	15
Tractors	1	1	1	Н	Н	ı	Н	8		Н	Н	1	1	i	1	4
Bul- dozers	2	Н	(- 1)	1	1	ı	1	1	1	ı	1	1	1	1	1	႕
Harvester	1	ł	i	1	ı	1	1	Н	+	i	1	t	1	1	1	Н
Other appliances (Huller)	1	1	1	1	t	1	H	Н	ı	1	1	1	1	1	1	H

Source : Compiled from the Questionnaires collected from 107 respondents.

The farmers who were economically very poor, previously used to take help of old agricultural equipments. But after the emergence of the Bhogawati Factory they can use modern farm equipments and appliances like electric motors, tractors, bull-dozers and harvesters. The Bhogawati factory guarantees to pay the instalments of loan taken for purchase of these equipments through the cane bill of the concerned members.

Out of 107 respondents who are in the category of small and marginal farmers, 4 have tractors, one has a bull-dozer and one has a harvester of his own.

The housing position of these 107 respondents is shown in Table No.4.7.

The Table No.4.7 shows the details of position of housing of 107 respondents from 5 villages. In 1979-80 there were 35 simple houses, 83 stone-bricks houses and 1 R.C.C. building belonging to the small and marginal farmers. But at the end of 1983-84 the housing position of these farmers changed to 31 simple, 88 stone-brick and 2 R.C.C. buildings. This change took place due to increase in income and standard of living of the small and marginal farmers because of the Bhogawati factory.

Table No.4.7 : Statement showing the position of Housing of the Respondents

Sr	:Name of the		quan	er of	Houses	belonging to	the	Respondents	3	
N	No.:villages :selected			1979 -	. 80		••	1983 -	- 84	
	• • • • • •	No. of simple thouses		No.of stone- brick houses	R.C.C.C. Bldgs.	Total:	:No. of	:No. of :stone- :brick :houses	:No.of :R.C.C. :Buildings	:Total
-	Dewale	2		16		19	2	18	П	디
ď	Parite	ω		22	1	30	9	24	1	30
<i>ي</i>	Rashivade Bk.	0	- .	18	FI	28	თ	18	Н	28
4	Gudal	15		22	1	37	14	23	1	37
ۍ.	Kambalwadi	1		īV.	ı	rv.	t	ī.	1	īV
	Total	: 35	••	83	т.	: 119	* Z	88	2	121

Source : Compiled from the Questionnaires collected from 107 respondents.

In addition to these, activities like generation of Small Savings, Capital formation by deducting compulsory non-refundable deposits from the sugarcane bills and providing employment opportunities to nearly 5000 to 6000 small and marginal farmers and landless labours in the area seasonally and thereby raising the standard of living of the small and marginal farmers are also noticed on account of the Bhogawati factory.

Social Welfare activities

For the Social Welfare of the Small and Marginal farmers the Bhogawati Factory introduced welfare activities which are shown in Table 4.8.

Table No.4.8 shows that out of 107 respondents only 23% respondents have benefited from the scheme of family welfare, while only 20% respondents' children have taken benefits of educational facilities provided by the Bhogawati Factory.

The Parite village has highest beneficiaries taking benefit of family welfare and educational facilities.

Cropping Pattern :

Due to establishment of the Bhogawati Factory the cropping pattern of the area changed from crops like wheat, maize, nagali, vegetables and jowar to sugarcane cultivation.

Statement showing the No.of Beneficiaries of Social Welfare Schemes Implemented by the Bhogawati Factory. Table No. 4.8 :

Sr. Social Welfare	Name c	Name of the vill of beneficiaries	Name of the villages selected and number of beneficiaries	cted an	d number	: Total and : percentage
	: Dewale	Dewale : Parite (16) : (23)	: Rashiva-: Gudal : de Bk. : (37)	Gudal (37)	:Kambal- :wadi	of total
1. Family Welfare Schemes	1	13	9	m	n	25 (23%)
2. Educational facilities	رم م	10	ſυ	Н	* t	21 (20%)

Source : Compiled from the Questionnaires collected from 107 respondents.

Table 4.9 : Statement showing the member respondents cultivating various crops in the sample villages

Kambalwadi(5)	Incrs:1979-:1987-:Incrs:1979-:1987-:Incrs:1979-:1987-:Incrs.//Decr: 80 : 84 :/Decr: 80 : 84 :Decrs.	6.00 +0.05	3.20 +0.04	1	0.15 +0.05	2.00	1	1	1	1.05 +0.05	1.10	1.07 +0.02
Kamba	1979-:198. 80 : 84	5.35	3.16	1	0.10	2.00	1	1	1		1.10	1.05
i	Incrs:	+2.12	+1.16	0.04 +0.04	0.04 +0.02	7.00(-0.05)	1	1	1	+0.05 -1.00	1	1 .
Acres) Gudal (377	1983- 84	33.0	22.30 +1.16	0.04			1	1	1	0-05	1	1
Area under various crops (in Acres 23) Rashivade Bk.(26): Gudal	:1979- : 80	-0.02) 40.27 46.02 +5.15 31.28 33.0	21.21 (-0.36) 21.14	1	0.02	7.05	1	1	1	1	1	1
crops k.(26)	:Incrs:	+5.15	(-0.36)	1	t	1	1	1	ŧ	1	1	1
rious rade B	:1983- :84	46.02	21.21	t	1	2.30	1.20	1	1	1	1	1
der various crops Rashivade Bk. (26)	1979-	40.27	+1.13 22.17	1	1	2.30	1.20	1	1	I	1	1
rea un	Incrs:/Decr:	(-0.02)	+1.13	1	-0.15	1	1	1	1	1	1	1
Parite(23)	1987- 84	16.23	11.18	0.15	0,25	ş	1	1	1	1	1	1
Pa	1979- 80	16.25	10.05	0.15	1.00	1	1	1	1	1	1	1
(91	:1979-:1987-:Incrs:1979-:1987-: :80 :84 :/decr:80 :84 :	24.10 24.0 (-0.10) 16.25	6.30 +0.10 10.05 11.18	1.00(-0.20)	1.10 +0.30	1	1	1	1	1	1	1
Dewale(16)	1987 84	24.0	6.30		1.10	1	0.10	1	1	1	t	1
	1979- 80	24.10	6.20	1.20	0.20	ı	3 0.10	1	1	1 02	1	1
	grown	1. Sugarcane	Rice	Wheat	Maize	Nagali	Vegetables 0.10	Fruits	Jowar	Ground-nuts	Grass	11. Chillies
N N N		/	2	ъ.	4	Ŋ	•	7.	ά	9	10.	-

Source : Compiled from the Questionnaires collected from 107 respondents.

Table No.4.9 shows that how the cropping pattern has changed from other crops to sugarcane crop.

From table No.4.9, it is seen that almost all the sample respondent farmers have shifted from other crops to sugarcane cultivation. Rice stands as the second important crop.

Subsidiary occupations

The Bhogawati Factory assisted in various ways to small and marginal farmers to undertake subsidiary occupations like dairy and poultry farming. This fact is shown on Table No.4110.

From this Table it is observed that the respondent small and marginal farmers have mainly undertaken subsidiary occupations like dairy and poultry farming.

Table No.4.10 also shows the number of cows, buffallows and hens owned by the sample respondents. The subsidiary occupations like cycle-shop and bakery have received poor response.

Table No.4.11 shows the schemes of subsidiary occupations introduced by the Bhogawati Factory.

Bram the Table No.4.11, shows that out of 107 respondents 8 have benefitted from the cattle breeding scheme while 3 respon-

Table No.4.10 : Statement showing the No.of Subsidiary Occupations undertaken by the Sample respondents.

	wadi(5)	.1983- . 84		1	œ		31		1	1
	:Kambalwadi(5	:1979- : 80			9		27		ı	1
	Gudal(37)	.1983- .84		7	55		175		1	
		:1979- : 89		77	45		118		1	
etc.	rade Bk.:	:1983- : 84		9	45		19		1	П
Hens	:Rashivade (26)	-1979- - 80		8	42		47		1	Н
of Cows,	Parite(23)	.1983- .84		ω	45		42		-	1
No.	: Parit	-1979- -80		ω	39		49		ri	1
	Dewale(16)	1979-:1983- 80 : 84		~	36		98		1	1
	Dewa	1979 80		8	32	••	52		1	1
1	l .	activites;	1. Dairy Farm:	a) Cows	b) Buffalows	2. Poultry Farm	Hens	3. Other Acti-	a) Cycle Shop	b) Heir Outting Seloon. Bakery

Source : Compiled from the Questionnaires collected from 107 respondents.

of Subsidiary Occupational Schemes Introduced Statement showing the Number of Beneficiaries by the Bhogawati Factory. •• Table No.4.11

S. No.	Sr.: Schemes for No.: Subsidiary : Occupation	. Dewale	Name of the villages Dewale: Parite: Rashivade		selected Gudal :	Kambal-	Total	Total:Percentage of
	Cattle Breeding Centre		72	O.		1	80	08 (7%)
o.	Financial assistance to small & marginal farmers for purchase of bullocks and bullock-carts.	1	1	I	1	n	03	(3%)

Source : Compiled from the Questionnairies collected from 107 respondents.

dents have benefitted from the scheme of financial assistance given to the small and marginal farmers for purchase of bullocks and bullock-carts.

Conclusion :

The above discussion based on the responses received from the selected 107 small and marginal farmers from five villages in the area of jurisdiction of the Bhogawati Factory, leads us to conclude:

- i) that majority of the respondents feel that they have received benefits from the general development of the area:
- Development and Sugarcane Development were, in some cases, as low as 13% (supply of srayers), 17% (cane-crop competition prizes and pilor project scheme), 25% (Guidance Seminars & Tours) and 34% (Soil testing scheme) and, in some cases, as high as 88% (supply of horticultural plants and supply of pressmud);
- iii) that the benefits received by the Small and Marginal farmers from Schemes of Economic Development implemented by the Bhogawati Factory seem to be marginal except in case of bio-gas scheme in which case 43%

of the respondents have been benefitted; as noted earlier the researcher has considered the seasonal employment opportunities made available because of the operations of the Bhogawati Factory during its crushing season;

- iv) that the Small and Marginal farmers lag behind in taking benefits from Social Welfare Schemes of the Bhogawati Factory;
 - v) that there is no substantial change in the cropping pattern when figures of 1979-80 and 1983-84 are compared; however, it is noteworthy that sugarcane has been the major crop taken by the responding Small and Marginal farmers; and
- vi) that a small number of Small and Marginal farmers

 from the selected villages has turned to poultry and
 dairy farming.

Thus the Small and Marginal farmers have received substantial benefits from the general development of the area and marginal to substantial benefits from the schemes of Agricultural Development and Sugarcane Development implemented by the Bhogawati factory. Benefits accruing to them from all other schemes, in majority of the cases, are marginal.