

TABLE VI
Stages of the Siwani Canal System

Stages	Gross Area (Hectares)	Culturable Commanded Area (Hectares)	Cost* (Rs. in lakhs)	Names of channels	Maximum lift involved in any one direction (Metres)	Number of pumps involved in houses
I	17,500	13,000	290	(a) Deosar Feeder ; (b) Minors and sub-minors ; Sewani Minor, Naloi Minor, Naloi sub-minor, Partamal Minor and Guresa Minor.	3.2	2
II & III	61,000	45,000 ^{1/2}	940	(a) Siwani Feeder ; (b) Siwani Canal ; (c) Distributaries (Names of minors and sub-minors off- taking a distributary are mentioned in parentheses): Talwandi Ruka, Talwandi, Daryapur, Dhani Miran (Dhani Dhirja minor), Godwa, Miran, Sherpura, (Bhera Minor) Mandhan, Motipura (Gudha Minor, Badhsaheli Minor), Sandawa (Bhariwas Minor, Badnola Minor) Isharwal (Gosainwala Minor, Talwani sub-minor, Dhani Bhakran Minor), Hasan (Salehwala Minor, Salehwala sub-minor), Mithi (Mandholi Minor Gopalwas Minor), Salempur (Salempur Minor, Sidhanwa Minor, Dhar- wanbas Minor).	11.1	9
IV	18,500	15,000	350 ^{1/2}	(a) Nigana Feeder ; (b) Nigana Canal ; (c) Nigana Canal... Siwani Canal Link ; (d) Distributaries (Names of minors and sub-minors off- taking a distributary are mentioned in parentheses): Kharkhari, Nigana, Nigana Hill, Dalehri, Jhanwari, Gudha, Saral, Alampur, Dadam (Dadam Hill Minor), Balawas (Bagtnwala Minor, Khanak sub minor, Balawas Minor and Kusri Minor).	27.0	10
Total :	97,000	73,000	1,580			

*Revised figures.

TABLE VII
Channels of the Siwani Lift Irrigation Scheme

Name of channel	Taking off point and the name of village/ tahsil	Point and the name of village/ tahsil at which it enters the Bhiwani district	Point and the name of village/ tahsil at which it leaves Bhiwani district	Length within the Bhiwani district (Kilometres)	Number of pump houses on the channel	Number and names of villages benefited/ to be benefited	Tahsil in which situated
1	2	3	4	5	6	7	8
Stage I							
1. Deosar Feeder	R.D.223000, Siwani (Dabra/ Hissar)	R.D. 69500, Deosar Feeder (Barwa/ Bawani Khera)	Ends within Bhiwani district	19.96	1	1. Barwa 2. Siwani 3. Kikral 4. Dhani Silunwali 5. Lilas	Bawani Khera Do Do Loharu Do
2. Siwani Minor	R.D.69482, Deosar (Barwa/ Bawani Khera)	Starts within the Bhiwani district	Ends within the Bhiwani district	19.66	1	1. Barwa 2. Khera 3. Dhulkot 4. Siwani 5. Talwandi 6. Badshahpur Rupana	Bawani Khera Do Do Do Do Do
3. Naloi Minor	R.D.102884, Deosar Feeder (Siwani/ Bawani Khera)	Do	Do	7.62	—	1. Kikral 2. Siwani 3. Naloi 4. Gurera	Do Do Do Loharu
(i) Naloi Sub Minor	R.D.12580, Naloi (Naloi/ Bawani Khera)	Do	Do	6.25	—	1. Naloi 2. Siwani 3. Kikral 4. Gurera	Bawani Khera Do Do Loharu
4. Partamal Minor	R.D.117633, Deosar Feeder (Siwani/ Bawani Khera)	Do	Do	1.83	—	1. Siwani (Partamal)	Bawani Khera

TABLE VII (Contd.)

1	2	3	4	5	6	7	8
5. Gurera Minor R.D.O. 14500	R.D.119383, Deosar Feeder (Siwani/Bawani Khera)	Starts within the Bhiwani district	Ends within the Bhiwani district	4.42	—	1. Siwani 2. Dhani Saifanwali 3. Gurera	Bawani Khera Loharu Do
Stage II—III							
6. Siwani Feeder R.D. 219550-296300	R.D.172376, Potwar Distributary (Dabra/Hisar)	R.D.258, 592, Siwani Feeder, Dabra (Hisar)	Do	11.49	—	Carrier Channel	
7. Siwani Canal R.D.O. 75600	R.D.296, 100, Siwani Feeder (Saharwa/Bawani Khera)	Starts within Bhiwani district	Do	23.07	5	Carrier Channel	
8. Talwandi Ruka Distributary R.D.O. 24570	R.D. 141, Siwani Canal (Saharwa/Bawani Khera)	Do	Do	7.3	1	1. Talwandi Ruka 2. Talwandi Badshahpur 3. Saharwa	Bawani Khera Do Do
9. Talwandi distributary R.D.O. 18620	R.D.6890, Siwani Canal (Chanana/Bhiwani)	Do	Do	5.3	—	1. Chanana 2. Talwandi Badshahpur 3. Saharwa	Bhiwani Bawani Khera Do
10. Daryapur distributary R.D.O. 10000	R.D.10610, Siwani Canal (Chanana/Bhiwani)	Do	Do	3.05	—	1. Saharwa 2. Chanana 3. Daryapur	Do Bhiwani Do
11. Dhani Miran distributary R.D.O. 17500	R.D.18150, Siwani Canal (Miran/Bhiwani)	Do	Do	5.33	—	1. Miran 2. Bbera 3. Gadawa	Do Do Do

TABLE VII (Contd.)

1	2	3	4	5	6	7	8
12. Dhani Dhirjan R.D.O. 13840	R.D.6948, Dhani Miran distributary (Miran/ Bhiwani)	Starts within Bhiwani district	Ends within Bhiwani district	4.22	—	1. Miran 2. Chanana 3. Dhani Ruhnat	Bhiwani Do Bawani Khara
13. Gadawa distribu- butary R.D.O. 45000	R.D.26210, Siwani Canal (Miran/ Bhiwani)	Do	Do	12.72	—	1. Miran 2. Sidhan 3. Gadawa 4. Kharkhari	Bhiwani Do Do Do
14. Miran distribu- tary R.D.O. 27500	R.D.37185, Siwani Canal (Sidhan/ Bhiwani)	Do	Do	7.39	—	1. Sidhan 2. Jhulli 3. Miran 4. Daryapur	Do Do Do Do
15. Sher- pura distribu- tary R.D.O. 45500	R.D.38750, Siwani Canal (Sidhan/ Bhiwani)	Do	Do	13.88	—	1. Sidhan 2. Bhera 3. Kaland 4. Mohla 5. Gandawas	Do Do Do Do Do
(i) Bhera Minor R.D.O. 12500	R.D.5000, Sherpura distributary (Miran/ Bhiwani)	Do	Do	8.39	—	1. Miran 2. Bhera	Do Do
16. Midhan distribu- tary R.D.O. 3630	R.D.46890, Siwani Canal (Midhan/ Bhiwani)	Do	Do	1.13	—	1. Mandhan	Do
17. Moti- pura distribu- tary R.D.O. 95000	R.D.47000 Siwani Canal (Mandhan/ Bhiwani)	Do	Do	28.98	1	1. Mandhan 2. Dewawas 3. Kaland 4. Gudha 5. Bidhwan 6. Dhani Bhakan 7. Jhumpa Kalan 8. Jhumpa Khurd	Do Loharu Do Do Do Do Do Do

TABLE VII (Contd.)

1	2	3	4	5	6	7	8
						9. Sainiwas	Bhiwani
						10. Lila	Do
(i) Gudha Minor R.D.O. 29000	R.D.15760, Motipura distributary (Dewawas/ Loharu)	Starts within Bhiwani district	Ends within Bhiwani district	8.85	—	1. Dewawas 2. Kalsud 3. Gudha 4. Mehla 5. Gangala	Loharu Do Do Do Do
(ii) Budh- saheli Minor R.D.O. 17500	R.D.62312, Motipura distributary (Jhumpa/ Loharu)	Do	Do	5.33	—	1. Jhumpa Kalan 2. Gangala 3. Budhsaheli	Do Do Do
18. Sandawa distri- butary R.D.O. 28000	R.D.55700, Siwani Canal (Isherwal/ Loharu)	Do	Do	8.53	—	1. Isherwal 2. Katwar 3. Rodha 4. Salewala 5. Sandawa	Do Do Bhiwani Do Do
(i) Bheri- was Minor R.D.O. 27500	R.D.12700, Sandawa distributary (Katwar/ Bhiwani)	Do	Do	8.39	—	1. Katwar 2. Khawa 3. Madhan	Do Do Do
(ii) Badaula Minor R.D.O. 29500	R.D.22000, Sandawa distributary (Bhushan/ Bhiwani)	Do	Do	9.02	—	1. Bhushan 2. Patodi 3. Badalwala 4. Badaula	Do Do Do Do
19. Isherwal Distri- butary R.D.O. 67350	R.D.63000, Siwani Canal (Isherwal/ Loharu)	Do	Do	20.53	—	1. Janawas 2. Isherwal 3. Mandholi Kalan 4. Mandholi Khurd 5. Bidhwan 6. Matani 7. Jhumpa Kalan	Loharu Do Do Do Do Do Do

TABLE VII (Contd.)

1	2	3	4	5	6	7	8
(i) Gosianwala Minor R.D.O. 9300	R.D.8800, Isherwal distributary (Isherwal/ Loharu)	Starts within Bhiwani district	Ends within Bhiwani district	2.83	—	1. Isherwal	Loharu
(ii) Talwani sub minor R.D.O. 21675	R.D.6000, Gosianwala Minor (Isherwal/ Loharu)	Do	Do	6.61	—	1. Gosianwala 2. Talwani 3. Kalali 4. Bidhwan 5. Dhani Bhakran	Do Do Do Do Do
(iii) Dhani Bhakran Minor R.D.O. 10500	R.D.50425, Isherwal distributary (Matani/ Loharu)	Do	Do	3.23	—	1. Jhumpa Kalan 2. Matani 3. Isherwal 4. Jhumpa Khurd	Do Do Do Do
20. Hassan distributary R.D.O. 34000	R.D.65000, Siwani Canal (Sidhanwala/ Loharu)	Do	Do	10.36	—	1. Hassan 2. Salehwala 3. Rodha 4. Sandawa	Do Do Do Bhiwani
(i) Salehwala Minor R.D.O. 14000	R.D.22600, Hassan distributary (Salehwala/ Loharu)	Do	Do	4.27	—	1. Hassan 2. Salehwala 3. Rodha 4. Sandawa	Loharu Do Do Bhiwani
(ii) Salehwala sub Minor R.D.O. 4718	R.D.7000, Salehwala Minor (Salehwala/ Loharu)	Do	Do	1.44	—	1. Hassan 2. Salehwala 3. Rodha 4. Sandawa	Loharu Do Do Bhiwani
21. Mihi distributary R.D.O. 53000	R.D.75600, Siwani Canal (Gopalwala/ Loharu)	Do	Do	17.68	1	1. Mandauli Kalan 2. Mandauli Khurd 3. Surpura Kalan	Loharu Do Do Do

TABLE VII (Contd.)

1	2	3	4	5	6	7	8
(i) Mandauli Minor R.D.O. 10750	R.D.11000, Mithi distributary (Mandauli/ Loharu)	Starts within Bhiwani district	Ends within Bhiwani district	3.28	—	4. Surpura Khurd 5. Mithi 6. Morkh	Loharu Do Do
(ii) Gopalwas Minor R.D.O. 13500	R.D.22800, Mithi distributary (Mandauli/ Loharu)	Do	Do	4.11	—	7. Siwanh 8. Gopalwas 9. Sidhanwa 10. Haryawas	Do Do Do Do
22. Salempur distributary R.D.O. 40500	R.D.75600, Siwani Canal (Gopalwas/ Loharu)	Do	Do	12.34	1	1. Salempur 2. Sidhanwa 3. Dhanwas	Do Do Do
(i) Salempur Minor R.D.O. 6600	R.D.17940, Salempur distributary (Salempur/ Loharu)	Do	Do	2.01	—	4. Devra 5. Khasarwas	Bhiwani Do
(ii) Sidhanwa Minor R.D.O. 18500	R.D.17940, Salempur distributary (Salempur/ Loharu)	Do	Do	5.64	—		
(iii) Dhanwas Minor R.D.O. 4900	R.D.24500, Salempur distributary (Devra/ Bhiwani)	Do	Do	1.49	—		
Stage IV							
23. Nigra Feeder R.D.O. 91950	R.D.88000, Jui Feeder (Mitatha/ Bhiwani)	Do	Do	28.03	—	Carrier Channel	
24. Nigra Canal R.D.O.	R.D.91950, Nigra Feeder	Do	Do	13.41	2	Carrier channel plus part irrigation 1. Kherkhari	Do

TABLE VII (Contd.)

1	2	3	4	5	6	7	8
44000	(Kharkhari Sohan/ Bhiwani)					Sohan 2. Kharkhari Makhwan 3. Dhuran 4. Badaula 5. Badalwala	Bhiwani Do Do Do
25. Khar- Khari distribu- tary R.D.O. 6163	R.D.2000, Nigana Canal (Kharkhari Sohan/ Bhiwani)	Starts within Bhiwani district	Ends within Bhiwani district	1.92	—	1. Kharkhari Makhwan	Do
26. Nigana distribu- tary R.D.O. 19500	R.D.3245, Nigana Canal (Kharkhari Sohan/ Bhiwani)	Do	Do	5.96	1	1. Kharkhari Makhwan 2. Dhuran 3. Nigana Kalan 4. Nigana Khurd	Do Do Do Do
27. Nigana Hill Distri- butary R.D.O. 21000	R.D.9850, Nigana Canal (Kharkhari Makhwan/ Bhiwani)	Do	Do	6.40	2	1. Nigana Khura 2. Nigana Kalan 3. Dhani Mahu	Do Do Do
28. Mahu distri- butary R.D.O. 37000	R.D.16500, Nigana Canal (Dulhari/ Bhiwani)	Do	Do	11.29	—	1. Nigana Kalan 2. Nigana Khurd 3. Sogarpur 4. Gudha 5. Dhani Mahu 6. Alampur 7. Mansarwas 8. Dhani Baganpura	Do Do Do Do Do Do Do Do
29. Dalhari/ Jhanwari distri- butary R.D.O. 3500 esch	R.D.18200, Nigana Canal (Dulhari/ Bhiwani)	Do	Do	2.13	1	1. Dulhari 2. Alampur 3. Kharkhari Makhwan 4. Jhanwari 5. Dhani Lashmanpura	Do Do Do Do Do Do

TABLE VII (Contd.)

1	2	3	4	5	6	7	8
30. Gudha distri- butary R.D.O. 9000	R.D.21200, Nigana Canal (Alampur/ Bhiwani)	Starts within Bhiwani district	Ends within Bhiwani district	2.74	—	1. Dulhari 2. Alampur 3. Gudha	Bhiwani Do Do
31. Saral Distri- butary R.D.O. 13300	R.D.23700, Nigana Canal (Alampur/ Bhiwani)	Do	Do	4.05	1	1. Saral 2. Jhanwari 3. Kharikhari Malhwan	Do Do Do
32. Alampur distri- butary R.D.O. 12000	R.D.30683, Nigana Canal (Thilod/ Bhiwani)	Do	Do	3.60	—	1. Thilod 2. Alampur 3. Patodi	Do Do Do
33. Dadam distri- butary R.D.O. 20500	R.D.44000, Nigana Canal (Saral/ Bhiwani)	Do	Do	6.25	—	1. Saral 2. Khanak 3. Dadam	Do Bhwani Khara Bhiwani
(i) Dadam Hill Minor R.D.O. 7000	R.D.750, Dadam distributary (Saral/ Bhiwani)	Do	Do	2.13	1	1. Saral	Do
34. Bilwas distrib- utary R.D.O. 35500	R.D.44000, Nigana Canal (Saral/ Bhiwani)	Do	Do	10.82	—	1. Chhapar Ranghran 2. Chhapar Jogan 3. Saral	Do Do Do
(i) Bagin- wala Minor R.D.O. 15000	R.D.14100, Balawas distributary (Chhapar Ranghran/ Bhiwani)	Do	Do	4.57	1	4. Badaula 5. Dadam 6. Pinjakhra 7. Khanak 8. Nafwa	Do Do Do Bhwani Khara Do
(ii) Khanak Sub Minor R.D.O. 7000	R.D.11000, Baginwala Minor	Do	Do	2.13	—	9. Garaopura 10. Dubbeta 11. Budoha Brahman	Do Do Do

TABLE VII (Contd.)

1	2	3	4	5	6	7	8
(iii)	Balawas Minor R.D.O. 10000 (Nalwa/ Bawani Khera)	R.D.35500, Balawas distributary	Starts within Bhiwani district	Ends within Bhiwani district	3.05	—	}
(iv)	Kuari Minor R.D.O. 40000 (Nalwa/ Bawani Khera)	R.D.35500, Balawas distributary	Do	Do	12.2	1	

TABLE VIII

Pump Houses of the Siwani Lift Irrigation Scheme

Serial number	Name of pump house	R.D. and name of channel on which located	Nearest village/ tahsil
1	2	3	4
Stage I			
1.	Pump House No. 1	R.D. 117,183 Deosar Feeder	Deosar (Bawani khara)
2.	Pump House No. 2	R.D. 23,500 Siwani Minor	Rupana (Bawani Khara)
Stages II & III			
1.	Pump House No. 1	R.D.O. Siwani Canal	Saharwa (Bawani Khara)
2.	Pump House No. 2	R.D. 35,900 Siwani Canal	Sidhan (Bhiwani)
3.	Pump House No. 3	R.D. 44,400 Siwani Canal	Mandhan (Bhiwani)
4.	Pump House No. 4	R.D. 61,500 Siwani Canal	Isberwal (Loharu)
5.	Pump House No. 5	R.D. 73,500 Siwani Canal	Hariawas (Loharu)
6.	Pump House No. 6	R.D. 22,600 Mithi distributary	Mandauli Kalan (Loharu)
7.	Pump House No. 7	R.D. 13,400 Motipura distributary	Devawas (Bhiwani)
8.	Pump House No. 8	R.D. 17,840 Salempur Distributary	Salempur (Loharu)
9.	Pump House No. 9	R.D. 1,480 Talwandi Ruka Distributary	Saharwa (Bawani Khara)
Stage IV			
1.	Pump House No. 1	R.D.O. Nigana Canal	Kharkhari M wan (Bhiw)
2.	Pump House No. 2	R.D. 3,900 Nigana Canal	Kharkhar Makhwa (Bhiwar)
3.	Pump House No. 3	R.D. 7,500 Nigana distributary	Dharr (Bhiw)

TABLE VIII (Concl.)

1	2	3	4
4.	Pump House No. 4	R.D. 900 Nigana Hill Distributary	Dulehri (Bhiwani)
5.	Pump House No. 5	R.D. 9,600 Nigana Hill Distributary	Dulehri (Bhiwani)
6.	Pump House No. 6	R.D.O. Dulehri/Jhanwri Distributaries	Dulehri (Bhiwani)
7.	Pump House No. 7	R.D. 10,000 Saral Distributary	Saral (Bhiwani)
8.	Pump House No. 8	R.D. 750 Dadam Hill Minor	Saral (Bhiwani)
9.	Pump House No. 9	R.D. 16,000 Kuari Minor	Kauri (Bhawani Khara)
10.	Pump House No. 10	R.D. 6,000 Baganwala Minor	Dadam (Bhiwani)

TABLE IX
Water Requirement of Different Crops

Name of crop	Water requirement in inches	Number of irrigations	Duration of the crop (days)	Critical stage of irrigation	Approximate days after seeding
1	2	3	4	5	6
Kharif Crops					
<i>Bajra</i>	15	3-4	90	Heading	55-60 (1st fortnight of September)
<i>Jowar</i> (fodder)	20	4-5	75	All stages	—
<i>Jowar</i> (grain)	25	5-6	110-120	Flowering	80-90 (Middle of September)
Cotton	40	7-8	180	1st Irrigation	45
				Flowering	90
				Boll formation	115
Groundnut	25	4-5	125-135	Flowering	70 (Last week of August to 1st week of September)
				<i>Pod</i> development	90 (end of September)
<i>Moong</i>	12-15	3	65-80	Flowering	45 (middle August)
Soyabean	20	4-5	110-115	Flowering	55-60 (end of August)
				<i>Pod</i> development	80-85 (end of September)
<i>Arhar</i>	15	3-4	150-160	Flowering	90 (end of September)
<i>Mash (Urd)</i>	15	3-4	90	<i>Pod</i> development	65-70 (middle of September)
Cowpeas (summer fodder)	25	5-6	70-75	All stages	—
Cowpeas (Kharif fodder)	20	4-5	70-75	All Stages	—
Cowpeas (Pulses)	5	3-4	70	Pre-flowering	45
				<i>Pod</i> development	55
Sugarcane	60	12-15	300 days	Frequent irrigation up to the end of October	—

TABLE IX (Concl.)

1	2	3	4	5	6
Rabi Crops					
Wheat (Local)	15	3-4	145	Tillering	30 (1st fortnight of December)
				Heading	90 (2nd fortnight of January)
Wheat (Dwarf)	25	6-7	135	Crown root	20-25 (1st fortnight of December)
				Heading	85 (2nd fortnight of January)
				Milk stage	100-105 (1st week of March)
Barley	12-15	3	130	Tillering	30-35 (2nd fortnight of December)
				Earing	75-80 (1st fortnight of February)
Oats fodder	25	6	150	All stages	—
Peas	12-15	3	130	Pre-flowering	75 (middle of January)
Gram	8-10	2	135	Post flowering	105-110 (1st fortnight of February)
Lentil	10	2	130	Pre-flowering	65-70 (middle of January)
<i>Raya</i>	10-12	3	140-150	Flowering	75 (3rd week of January)
Brown/yellow Sarron	8-10	2	135-150	Flowering	72-75 (middle of January)
<i>Toria</i>	8-10	2	110	Flowering	75-80 (middle of November)
<i>Bersem</i> (fodder)	50	12-15	180	All stages	—
Potato	25	6-7	90-100	All stages	—

TABLE X

Scheme-wise achievements of Bhiwani MFAL since inception (June 1971) to March 31, 1977

Name of the scheme	Targets achieved	Financial assistance (Rs. in lakhs)			Number of beneficiaries
		Loans advanced	Subsidies disbursed	Total	
1	2	3	4	5	6
		(Rs.)	(Rs.)	(Rs.)	
(A) Minor Irrigation and Land Levelling					
(i) Community deep tubewells	50	19.29	19.29	38.58	1,100
(ii) Pumping sets/bhallars/rahats/ pakka channels/land levelling	305	11.94	3.76	15.70	305
(iii) Risk fund	—	—	0.18	0.18	—
(iv) Digging of water courses in the command of Jui Canal under rural works programme	212 Water Courses	—	5.57	5.57	3,747
(B) Agriculture					
(i) Demonstration plots	175	—	0.40	0.40	175
(ii) Subsidy on inputs	3,542 families	—	1.95	1.95	3,542
(iii) Crop loans	1,581 families	29.07	—	29.07	1,581
(C) Animal Husbandry Schemes					
(i) Dairy farming units	5,045	92.71	23.78	116.49	5,045
(ii) Sheep units	448	10.43	3.42	13.85	448
(iii) Poultry units	7	0.14	—	0.14	7
(iv) Risk fund to societies/banks	—	—	3.10	3.10	—
(v) Managerial subsidy	—	—	1.95	1.95	—
(vi) Medicines	—	—	0.05	0.05	—
(D) Rural Works Programme					
(i) Link and approach roads	22	—	6.93	6.93	11,687
(ii) Sand dune fixation	155 acres	—	12.54	12.54	
(iii) Afforestation	650 R.K.M.	—	2.13	2.13	
(iv) Desilting	16 works on 7 minors				

TABLE X (Contd.)

1	2	3	4	5	6
(E) Development of Hira Nand Taak at Tosham	—	—	0.88	0.88	—
(F) Filling of Neeemfawali Taak, Bhiwani	—	—	1.00	1.00	—
(G) Development of markets (Bhiwani, Tosham, Sivdini and Jul @ Rs. 1 lakh for each)	4	—	4.00	4.00	—
(H) Rural Artisans	24 trainees	—	0.19	0.19	24
(I) Bench Mark Survey	—	—	0.01	0.01	—
Total :		163.58	91.13	254.71	27,661

R.K.M.—Row Kilometres

TABLE XI

Regional Artificial Insemination Centres and Stockman Centres under the Intensive Cattle Development Project, Bhiwani

Regional Artificial Insemination Centres	Stockman Centres	
	Location	Tahsil
1	2	3
1. Bawani Khera	1. Bapora	Bhiwani
	2. Bamla	Do
	3. Biran	Do
	3. Chang	Do
	5. Chhapar	Do
	6. Dinod	Do
	7. Dhani Mehu	Do
	8. Dulchri	Do
2. Tosham	9. Dang Kalan	Do
	10. Gujrami	Do
	11. Gopi	Do
	12. Haluwass	Do
	13. Jhulli	Do
	14. Kaluwass	Do
	15. Kont	Do
	16. Kharkuri Makhwan	Do
	17. Khanak	Do
	18. Lohani	Do
	19. Legha	Do
	20. Lalhana	Do
	21. Miran	Do
	22. Nangal	Do
	23. Prem Nagar	Do
	24. Patodi	Do
3. Jui Kalan	25. Pinjokhera	Do
	26. Sai	Do
	27. Sandwa	Do
	28. Tigrana	Do
	29. Balkara	Dadri
	30. Charkhi	Do
4. Charkhi Dadri	31. Kheri Buran	Do
	32. Kitlana	Do
	33. Mandola	Do
	34. Makrana	Do
	35. Pantawas	Do
	36. Sanwar	Do

TABLE XI (Concl'd.)

1	2	3
	37. Sangeshpur	Dadri
	38. Tikan Kalan	Do
	39. Barsi	Bawani Khara
	40. Balyali	Do
	41. Bhartana	Do
	42. Dadhiya Rangra	Do
5. Semen, Bank Bhiwani	43. Jamalpur	Do
	44. Kanwari	Do
	45. Mundhal	Do
	46. Mandhana	Do
	47. Paposa	Do
	48. Parih	Do
	49. Talu	Do
	50. Thalor	Do

TABLE XII

Veterinary Hospitals/Dispensaries (March, 31, 1977)

Serial number	Location	Tahsil
1	2	3
Veterinary Hospitals		
1.	Bhiwani	Bhiwani
2.	Nimatipal	Dadri
3.	Tosham	Bhiwani
4.	Siwani	Loharu
5.	Kairu	Bhiwani
6.	Lohari Jatu	Bawani Khera
7.	Dhanana	Do
8.	Loharu	Loharu
9.	Bahl	Do
10.	Satnali	Dadri
11.	Charkhi Dadri	Do
12.	Chhapar	Do
13.	Badhara	Do
14.	Imlota	Do
15.	Baund Kalan	Do
16.	Sanwar	Do
17.	Jhojhu Kalan	Do
18.	Paintawas	Do
19.	Badhwana	Do
20.	Mundhal	Bawani Khera
21.	Nalwa	Do
22.	Manheru	Bhiwani
Veterinary Dispensaries		
1.	Mitathal	Bhiwani
2.	Dhani Mahu	Do
3.	Isharwal	Do
4.	Nakipur	Loharu
5.	Bawani Khera	Bawani Khera
6.	Ratera	Do

TABLE XII (Contd.)

1	2	3
7.	Ranila	Dadri
8.	Dudhwa	—do—
9.	Pichota	—do—
10.	Kadma	—do—
11.	Misri	—do—
12.	Achins	—do—
13.	Roopgarh	—Do—
14.	Siharwa	Bawani Khara
Sheep and Wool Extension Centres		
1.	Doost	Bhiwani
2.	Kairu	Bhiwani
3.	Jhokhu Kalan	Dadri
4.	Satnali	Dadri
5.	Bahi	Loharu
6.	Sohansra	Loharu

TABLE XIII

Droughts occurred and Relief Measures afforded in the Bhiwani Tahsil
(1958-59 to 1976-77)

Year	Nature of calamity	Relief Measures					Approximate damage caused in terms of money
		Land revenue and <i>taccavi</i> suspended/remitted	<i>Taccavi</i> advanced	Grants given for relief works	Fodder subsidy	Percentage of <i>khara</i> ¹	
1	2	3	4	5	6	7	8
			(Rs.)	(Rs.)	(Rs.)		(Rs.)
1958-59	Drought	<i>Taccavi</i> suspended	75,000	..	..	5	1,78,00,000
1960-61	—do—	—do—	6,48,900	..	..	32	10,97,00,000
1963-64	—do—	Land Revenue remitted and <i>taccavi</i> suspended	6,46,000	..	2,37,686	67	19,00,00,000
1964-65	—do—	<i>Taccavi</i> suspended	1,43,325	..	—	15	46,3,00,000
1965-66	—do—	Land Revenue remitted and <i>taccavi</i> suspended	2,35,451	..	1,25,000	74	22,75,00,000
1967-68	—do—	Land revenue and <i>taccavi</i> suspended	—	..	—	24	3,15,00,000
1968-69	—do—	—do—	—	..	—	92	7,91,00,000
1972-73	—do—	Land revenue and <i>taccavi</i> suspended	10,36,830	..	5,29,799	82	8,25,00,000
1973-74	—do—	<i>Taccavi</i> and Land Holding Tax suspended	1,76,512	..	62,009	32	2,77,00,000
1974-75	—do—	—do—	18,93,951	3,25,000	11,11,796	21	1,74,00,000
1975-76	—do—	—	19,42,751	27,400	1,95,766	6	1,18,00,000
1976-77	—do—	—	6,40,395	—	—	7	1,12,00,000

1. Percentage of *khara* is worked out on the sown area only. The area was less sown due to drought.

TABLE XIV
Droughts occurred and Relief Measures afforded in the Dadri tahsil
(1938-39 to 1974-75)

Year	Nature of calamity	Relief measures taken				Percentage of <i>khuraba</i>	Approximate damage caused in terms of money	Remarks
		Land revenue and <i>taccavi</i> suspended/re-mitted	<i>Taccavi</i> advanced	Grants given for relief works	Fodder subsidy			
1	2	3	4	5	6	7	8	9
			(Rs.)	(Rs.)	(Rs.)		(Rs.)	
1938-39	Severe drought	..	..	..	..	Above 50	7,13,19,900	It is not clear whether
1939-40	—do—	..	..	..	..	50	3,79,14,300	drought was
1941-42	—do—	..	..	..	..	50	5,12,53,800	declared but
1948-49	—do—	..	..	..	..	50	1,40,78,300	<i>khuraba</i> was due to scarcity of rains
1963-64	—do—	Land revenue re-mitted/ <i>taccavi</i> recovery suspended	10,83,400	..	2,63,718	50	16,16,31,000	
1964-65	—do—	<i>Taccavi</i> suspended	3,00,000	..	8,70,000	Less than 50	9,02,50,000	
1965-66	—do—	Land revenue re-mitted/ <i>taccavi</i> recovery suspended	—	1,50,000	—	50	98,41,70,000	
1968-69	Severe drought	Recovery of land revenue and <i>taccavi</i> suspended	—	2,51,316	—	Above 50	15,74,45,000	
1972-73	—do—	—do—	4,24,846	..	1,15,000	—do—	22,26,00,000	
1973-74	—do—	—do—	27,426	..	..	—do—	10,33,20,000	
1974-75	—do—	—do—	10,74,000	3,72,500	88,140	—do—	22,30,05,000	

TABLE XVI
Cotton Ginning, Spinning and Weaving Factories at Bhiwani in the beginning of the 20th Century

Name	Nature of work carried on	Average daily number of workers employed													
		1916	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	
1. The Bhiwani Cotton Spinning and Weaving Mills	Spinning and Weaving	480	350	365	47
2. Shri Venkateshwar Cotton Mills	Spinning and Weaving	..	..	..	..	370	495	450	513	513	Closed	Closed	575	599
3. Mohra Lal Ginning Factory	Cotton Ginning	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Shri Kailashputri Ginning Factory	Cotton Ginning	44	Closed	50	47	Closed	Closed	50	Closed	47	Closed	..	..	..
5. Nand Kishore Oshar Mal	Cotton Ginning	..	..	..	..	..	..	..	..	..	..	50	39	43
		..	..	..	..	..	..	..	..	..	..	..	..	12

Source : *Hisar District Statistical Tables, 1935, Table 28.*

TABLE XVII

Small-Scale Industrial Units as on November 1, 1966

1	2	3	4	5	6	7	8	9	10	11	
											Classification of industries	Number of units	Source of power	Location of industrial units	Number of workers	Investment	Average wages of workers	Source of raw material	Salient features of mfg. process	Marketing of finished goods	Management of industry
						(Rs. in lakhs)					
Textile	10	Electric	Bhiwani	107	3.10	5	Indigenous/Imported	Through power looms	Haryana & Delhi	Proprietorship/Partnership	
	6	-do-	Bhiwani	50	6.81	5	Local/surrounding areas	Old Technique of mfg. of Gram <i>daf</i>	Within and outside the State	-do-	
	1	-do-	Tosham	6	1.00	5	-do-	-do-	-do-	-do-	
Food-process	2	Diesel Engine	Chang Rawari (Seasonal)	100	17.00	4	Local	Through power crushers	Local	-do-	
	6	Electric	Bhiwani	35	0.91	5	Indigenous	Mostly hand work	Local	-do-	
Chemical	14	Electric/Manual	Bhiwani	56	1.38	5	Indigenous/imported	-do-	Local & outside the State	-do-	
	17	Electric/Manual	Bhiwani	76	2.05	5	Indigenous	Fabrication work	Local	-do-	
Metal & Engg. Products	5	Electric	Charkhi Dabri	16	2.80	5	-do-	-do-	-do-	-do-	
	2	Electric/Manual	Loharu	2	0.10	5	-do-	-do-	-do-	-do-	
Non-Metallic	6	Manual	Bhiwani	15	0.25	6	-do-	Mostly hand	-do-	-do-	

TABLE XVII (Contd.)

1	2	3	4	5	6	7	8	9	10	11
	2	Manual	Charkhi Dudri	6	0.55	6	Indigenous	Mostly hand work	Local	[Proprietorship/ Partnership
Brass Utensil Industries	36	Manual	Bhiwani	141	2.20	6	—do—	Hand work	—do—	—do—
Mineral Based	3	Electric/ Oil engine	Kharak	600	5.50	3	local	Through machinery	Punjab	—do—
Radio Assembly	1	Manual	Lohara	1	0.10	5	Delhi	Hand work	Local	—do—
Misc-Ind.	7	Electric/ Manual	Bhiwani	—	2.54	5	Indigenous	Through machinery / hand work	Punjab	—do—

TABLE XVIII
Loans Sanctioned and Disbursed by Haryana Financial Corporation]
(Rs. in lakhs)

Year	Loans sanctioned			Loans disbursed								
	Small-Scale	Others	Total	Small-Scale	Others	Total						
	Units	Amount	Units	Amount	Units	Amount						
	(Number)	(Rs.)	(Number)	(Rs.)	(Number)	(Rs.)						
1973-74	18	24.33	—	18	24.33	15	11.96	2	1.42	17	13.38	
1974-75	11	12.20	1	30.00	12	42.20	16	17.92	—	—	16	17.92
1975-76	16	33.12	3	49.10	19	82.22	11	13.34	2	27.20	13	40.54
1976-77	10	21.64	—	—	10	21.64	8	9.43	1	7.84	9	17.27

TABLE XIX
Grants and Loans Disbursed by Haryana Khadi and Village Industries Board

Name of the industry	1973-74		1974-75		1975-76		1976-77	
	Grant (Rs.)	Loan (Rs.)	Grant (Rs.)	Loan (Rs.)	Grant (Rs.)	Loan (Rs.)	Grant (Rs.)	Loan (Rs.)
Carpentry and Blacksmithy	—	3,000	5,200	7,800	3,000	4,400	1,200	56,100
Processing of Cereals and Pulses	—	—	—	4,500	—	4,500	2,500	7,500
Gar and Khandasari	—	—	—	20,000	—	—	—	6,200
Leather	—	11,000	2,000	4,000	2,500	5,000	6,250	12,650
N.E.O. Soap	—	—	—	23,650	—	23,000	750	27,400
Gobar Gas Scheme	—	1,000	—	—	—	—	—	—
Lime Manufacturing	1,200	—	—	19,300	—	—	—	14,300
Total:	1,200	15,000	7,200	79,250	5,500	36,900	10,700	1,24,150

TABLE XX

Suggested New Industries

DEMAND BASED

1. Automobile Repair and Reconditioning; 2. Bicycle Accessories, viz. Stand, Carrier, Chain covers, Saddle, etc; 3. Diesel engine parts, viz. connected rods Crank-shaft, Brass bearings; 4. Gates and Grills; 5. Composite jobbing workshop for Textile machinery parts; 6. Mechanical toys; 7. Bicycle tube valves; 8. Tractor Drawn Agricultural Implements; 9. Builders Hardwares (aluminium); 10. Aluminium Utensils; 11. Bolts and Nuts, hot forged; 12. Steel furniture; 13. Tin Containers four gallons capacity; 14. Link Chains; 15. Decorated Light Chains; 16. Tool room with heat treatment; 17. Hypodermic Needles; 18. Bifurcated Rivets; 19. Aluminium Gravity die casting; 20. Screw Drivers and Light Voltage Tester; 21. Tipped tools; 22. Self tapping screws; 23. Hacksaw Blades; 24. Fountain Pen Nibs; 25. Auto leaf Springs; 26. Speedometer Cable; 27. Malleable Casting Pipe Fittings, B.B. Shoots; 28. Aluminium Utensil manufacturing unit from ingots; 29. Electrolytic Condensers; 30. Printed Circuit boards; 31. Transistor Receivers; 32. Loud Speakers; 33. Wire Wound Resistors; 34. Carbon Brushes; 35. Hearing Aid; 36. Domestic Electrical Appliances; 37. Line Testers; 38. Fluorescent Light Fixtures; 39. Bakelite Electrical Accessories; 40. Voltage Regulators; 41. Automobile Batteries Reconditioning; 42. Confectionery; 43. Distilled Water for injections; 44. Pesticides Formulations; 45. Printing Press Offset; 46. V. Belts; 47. Writing Inks; 48. Electroplating of ancillary auto-parts; 49. Zinc Sulphate; 50. Synthetic detergent; 51. Cattle feed; 52. Corrugated and card Board Boxes; 53. Lubricating Grease; 54. Paints and Varnishes; 55. Bleaching and Dyeing of Cotton Cloth; 56. R.C.C. Pipes; 57. Mosaic Tiles; 58. Spectacle Frames; 59. Spectacle lenses and Sun glasses;

RESOURCE/SKILL BASED

60. Bone Meal; 61. Absorbent Cotton; 62. Surgical bandages; 63. Cotton Vests and underwears; 64. Taps, Niwar and Webbing Equipment; 65. Readymade garments.

TABLE XXI
Small-Scale Industrial Units as on March 31, 1977

1	2	3	4	5	6	7	8	9	10	11
Classification of industries	Number of units	Sources of power supply	Location of industrial units	Number of workers	Capital invest ment (Rs. in lakhs)	Average wages (Rs.)	Sources of raw material	Salient features of mfg. process	Marketing of finished products	Management of industries
Textile including Synthetic & Woolen	68	Electric/ Manual	Bhiwani, Dadri & Tosham	500	49.00	8	Indigenous/ Imported	Through powerlooms, Auto Plant of monofila- ment yarn, ginning & machine	Haryana/ Delhi	Proprietor/ Partnership/ Cooperatives
Food Processing	46	—do—	Bhiwani, Tosham Ch. Dadri, Loharu Bawani Kheta, Sawani, Chang & Baarla	470	51.50	8	Local	Through machines & power crushers	Local & adjoining areas	—do—
Furniture & Wood products	31	—do—	Bhiwani, Dadri, Loharu	140	8.50	8	—do—	Machine/ Manual	—do—	—do—
Chemical Industries	75	—do—	Bhiwani, Dadri, Tosham	250	21.00	8	Indigenous/ Imported	Manual/ modern process	Within & outside State	Proprietor/ Partnership

TABLE XXI (Contd.)

1	2	3	4	5	6	7	8	9	10	11
Metal & Engg. Industries	118	—do—	Bhiwani, Loharu Dadri, Tosharn	375	54.00	8	Indigenous	Manual & Imported techniques	Haryana & Delhi	Proprietor/ partnership
Cement Products	18	—do—	Bhiwani, Dadri, Haluwani, Tosharn	90	13.00	8	—do—	—do—	—do—	—do—
Brass Utensils	28	—do—	Bhiwani	120	2.50	8	—do—	Manual work/ machinery	—do—	—do—
Mineral based Industries	24	Electric/ power/ manual	Bhiwani, Dadri, Tosharn	2600	40.00 (on contract basis)	8	Local	Machine & Manual	Within & outside State	—do—
Lime	1	Manual/ fuel	Tosharn	3	0.05	8	—do—	Through improved <i>Biochiz</i>	Local	—do—
Optical	8	Electric power/ manual	Ch.Dadri Bhiwani	30	0.80	8	Indigenous/ Imported	Through machines	—do—	—do—
Misc. Industries	97	—do—	Bhiwani, Dadri, Tosharn, Loharu	410	35.00	8	Indigenous/ Imported	Through machines	Local & outside	—do—

TABLE XXII
Cottage Industries as on March 31, 1977

Category of Industry	Number of units	Source of power	Location of units	Number of work-invest-ment	Capital	Wages	Sources of raw material	Salient features of mfg. process	Marketing of finished products	Management of Industries
					(Rs. in lakhs)	(Rs.)				
1. Shoe making	520	Manual	Whole of the distt.	550	7.00	8	Local & Delhi	Manual & Sewing	Local	Family members
2. Weaving	2906	—do—	—do—	4052	8.00	10	Local, Delhi & Panipat	Ploom & Hand loom Weaving	Local & Panipat	Family members & some workers
3. Carpentry	335	—do—	—do—	350	6.75	12	Local	Old Pattern	Local	Family Members
4. Blacksmithy	155	—do—	—do—	170	3.15	9	Local & Outside	—do—	—do—	—do—
5. Pottery	120	—do—	—do—	130	0.60	6	Local	—do—	—do—	—do—
6. Bar Rope & Madfa Making	50	—do—	Some villages in Loharu, Bhiwani & Ch.Dadri	55	0.35	8	—do—	Manual & Hand operated machinery	—do—	—do—
7. Leather Tanning	15	—do—	Dadri & Bhiwani block	18	0.08	9	—do—	Crude process	—do—	—do—
8. Stone Carving	20	—do—	Bhiwani, Dadri & Satnali	25	0.04	9	—do—	Manual	Local & Rajasthan	—do—
9. Rosary Beads (Sandal wood)	10	—do—	Bhiwani block	15	0.01	15	Outside the State	—do—	Local & Delhi	—do—

TABLE XXIII

Industry-wise Registered Working Factories as on March 31, 1977

Industry	Registered working factories	Workers employed
Food products	3	107
Beverages, Tobacco and Tobacco products	—	—
Cotton Textile	10	8,706
Wool, Silk and Synthetic Fibre	2	200
Jute, Hemp & Mesta Textiles	—	—
Textile products	—	—
Wood and Wood products, etc.	16	80
Paper and Paper products	—	—
Leather & Leather products	—	—
Rubber, Plastic and Petroleum products	—	—
Chemicals and Chemical products	2	104
Non-metallic Mineral products	28	1,045
Basic Metal and Alloys Industries	—	—
Metal products and parts	—	—
Machinery & Machine Tools, etc.	—	—
Electrical Machinery Apparatus Appliances	—	—
Transport Equipment and parts	—	—
Other manufacturing industries	2	290
Electricity	—	—
Gas and Steam	—	—
Water works & Supply	—	—
Storage and ware housing	—	—
Repair services	—	—
	63	10,532