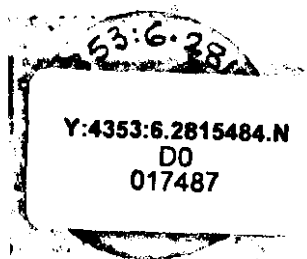


REPORT
ON
FAMINE OPERATIONS
IN THE
BHAVNAGAR STATE,
IN 1899-1900.



Bombay:
PRINTED AT THE "TIMES OF INDIA" PRESS.
1900.

REPORT
ON
FAMINE OPERATIONS
IN THE
BHAVNAGAR STATE,
IN 1899-1900.

Bombay:
PRINTED AT THE "TIMES OF INDIA" PRESS.
1900.

Y:4353:6.281584.N

Do

17487

INDEX.

	PAGE.
INTRODUCTION	1
PHYSICAL AND STATISTICAL FEATURES OF THE STATE	"
Districts or Sub-divisions... ..	"
Climate	"
Soil	"
Crops	"
Cultivation	"
PREVIOUS FAMINES IN KATHIAWAR	2
Famines in the 18th Century	"
Famines in the 19th Century	"
THE FAMINES OF 1877-78 AND 1899-1900	4
Comparison between them	"
CAUSES OF THE FAMINE OF 1899-1900	5
Rainfall at the various recording stations in the State	"
Extent of suffering and loss caused in the several Districts by the failure of rains'	"
POPULATION AFFECTED	6
Extent of area and number of persons affected	7
HIS HIGHNESS' VISIT TO THE AFFECTED DISTRICTS	"
Instructions and orders for measures of relief	"
INITIAL MEASURES OF RELIEF	"
Vingarla Gadhda-Road	"
Number of persons on relief in the commencement	8
THE BHAYNAGAR FAMINE CODE	"
The late Maharajah Takhtaingji's foresight in ordering a Code for his State to meet the necessities of Famine	"
The previous Famine Code of the State	9
The principal subjects dealt with... ..	"
PUBLIC WORKS	"
Particulars of works undertaken	"
Number of persons maintained on these works	"
RELIEF WORKS UNDER CIVIL AGENCY	10
Digging and deepening of new and old tanks and wells	"
Amount expended	11
Irrigating capacity of these new works	"
TANK EXCAVATION	11
Old and new tanks ; expenditure thereon	"
PIECE WORK AND TASK WORK	"
Mode adopted under the two methods	"
Average number of men, women, and children on relief works in each month... ..	12
Works executed through professional agency	"
Wages	14
Dependents and children	"
Water-supply and hutting	"
The closing of the works	15
PUBLIC HEALTH AND MORTALITY ON RELIEF WORKS	"
Death rate	"
Condition of the workers	16
Cholera on the relief works	"
Temporary dispensaries	17
CHARITABLE RELIEF	"
Poor houses	18
The Shri Takhtaingji memorial poor-house	19
Views of poor houses and their inmates, etc.	"
Able-bodied inmates, male and female, how employed	20
The care of Orphans	"

	PAGE.
SUPPLIES OF FOOD GRAINS	20
His Highness' orders: how prices were kept down ...	"
Stocks of grain in the State	21
Imports of food grains	"
Abolition of Sea Customs	22
Prices of food grain	"
CATTLE AND FODDER...	"
Loss of Cattle	"
Fodder supply	23
Tagavi grass supply	24
LOANS TO LAND HOLDERS AND CULTIVATORS	25
Bhayads, Mulgirasias and other subordinate vassals	"
Provision for relief and poor houses for the destitute on their estates	26
Tagavi advances to cultivators	"
REVENUE COLLECTIONS, SUSPENSIONS AND REMISSIONS	27
Principles embodied in the Revenue system	"
His Highness' generous policy and its beneficial results	28
TOTAL EXPENDITURE ON FAMINE RELIEF	29
Proportion of amount to the Revenue	"
ASSISTANCE TO PALITANA SUBJECTS	"
Reasons for the same	"
Number of persons employed and relieved	"
WATER SUPPLY	30
THE CONDITION OF THE PEOPLE	"
Effect of famine on trade	"
The failure of the Cotton crop	"
Closing of Mills and Presses... ..	"
Disastrous effect on the labour market	"
Special classes of workers	31
Copper-smiths of Sihor	"
Condition of the low castes	"
Victims of parental neglect: how cared for	"
Note by Mr. Morrison on Famine relief operations in the Bhavnagar State	"
Condition of the poorer members of the higher classes	32
CRIME	"
Police and police measures	33
CONCLUDING REMARKS	"
The constant unceasing and generous interest displayed by His Highness	"
Valuable service rendered by the Chief Officers of the State	34

LIST OF ILLUSTRATIONS.

- (1) A general view of the Ashram.
- (2) A general view of the Ashram while the inmates are at work.
- (3) Some of the inmates at the time of first admission.
- (4) Worst types of the famine stricken people at the time of their admission.
- (5) Some females with their children at the time of admission.
- (6) Some males with their children at the time of admission.
- (7) Inmates of the Ashram after their stay for 3½ months.
- (8) Orphans with their nursing mothers.
- (9) Breakfast time.
- (10) Lepers near their quarters.
- (11) Women sewing, boys studying, and the potter working at his wheel.

LIST OF APPENDICES.

- A.**—Map of the Bhavnagar State on reduced scale.
- B.**—Statement of rainfall of the seasons of 1899 and 1877.
- C.**—Statement giving details regarding relief works, supplied by the State Engineer.
- D.**—Statement showing daily average number employed in each month on the different classes of works and the total units, including dependants relieved, and expenditure.
- E.**—Statement showing the total number of men, women, and children among relief works in the last week of each month.
- F.**—Statement giving the expenditure of the temporary establishment employed on the relief works from the beginning to the end of September 1900.
- G.**—Comparative statement showing the mortality in the affected districts from August 1897-1900.
- H.**—Statement showing the total quantities of food grains imported by sea in 1899-1900 as compared with 1877-78.
- J.**—Statement of the monthly price in the lbs. per rupee of Jowari, &c. during 1899 and 1877-78.
- K.**—Statement showing the number of new tanks excavated and old ones deepened in 1899-1900, and their expenditure.

APPENDIX C.

STATEMENT giving details regarding Relief Works supplied by the State Engineer, Bhavnagar State.

District.	Name of work.	Amount of	Value of	Nature of work.	Utility of works.
		Famine Expenditure.	work done at ordinary rates of construction.		
		Rs.	Rs.		
Gadhda ...	Ningala G a d h d a road.	69,318	76,435	Earthwork	... Facilitating communication between the two principal villages in the Gadhda Mahal and the Railway.
Daskrohi ...	Sidsar road Improvement.	7,995	9,960	Do.	... Raising level of road to prevent it being covered with water when lake is full.
Bhavnagar ...	Road between Ry. line and Saw-mill.	166	192	Do.	... Means of communication between saw-mills and main road which had been stopped by Railway fencing.
Do. ...	Bhavnagar salt works road.	3,475	4,324	Do.	... Increased facility for carts conveying salt to the town.
Jesar ...	Chhapriali Cart road..	2,879	2,885	Do.	...
Bhavnagar ...	Timber float ...	1,817	2,260	Do.	... Deepening the portion which had silted up.
Do. ...	Bhavnagar Town road repair.	38,784	42,210	Breaking metal and repairing roads.	Metal for repairing the Town roads.
Do. ...	Takhtsingje Steam ferry road repair.	8,623	4,525	Earthwork	... Repairing portions washed away by the tides.
Do. ...	Parbhudas talao ...	25,209	31,488	Do.	... Enlarging and deepening one of the principal talaos in Bhavnagar.
Gadhda ...	Khopaka talao ...	2,661	3,524	Do.	... Repairing and deepening talao where village cattle and villagers drink.
Bhavnagar ...	Moti talao ...	29,063	37,212	Do.	... Deepening (partially) the principal talao in Bhavnagar.
Do. ...	Ruvapuri talao ...	17,894	22,340	Do.	... Connecting together and deepening talao near Ruvapuri where large numbers of people collect on festivals.
Do. ...	Victoria Jubilee water works.	3,845	4,798	Do.	... Cleaning the debris in the canal which connects the Bhikda lake with the Gavrishanker lake.
Gadhda ...	Khilsara talao ...	8,949	11,265	Do.	... The only tank for miles round from which cattle grazing in the vicinity can get water in the hot season.
Bhavnagar ...	Victoria Park Improvement.	4,590	5,732	Cutting trees, removing weeds and opening out vistas.	Improving and beautifying the Park.
Do. ...	Reclaiming compound behind Chadika hill.	4,490	5,595	Earthwork	... Levelling broken ground for building sites.
Do. ...	Bhavnagar Special water supply.	28,138	31,132	Do. and conveyance of water.	For supplying water to the inhabitants of Bhavnagar.
Do. ...	Reclaiming ground near K a l u b h a's bungalow.	661	820	Earthwork	... Levelling the compound of Kalubha's house.
Do. ...	Polo ground Improvement.	151	230	Do.	... Filling up hollows and holes and rolling.
Do. ...	Moti talao repair ...	125	153	Do.	... Repairing damages caused by the rains.
Do. ...	Peile gardens repair...	1,593	1,995	Moorum work	... Cleaning and deepening wells for irrigation.

APPENDIX C.—contd.

STATEMENT giving details regarding Relief Works supplied by the State Engineer, Bhavnagar State.

District.	Name of work.	Amount of famino Expenditure.	Value of work done at ordinary rates of construction.	Nature of work.	Utility of works.
		Rs.	Rs.		
Umrala, Jesar & Mahuva.	Lord Reay road ...	5,65,480	6,88,250	Earthwork and cutting.	For opening up the particularly rich track of country lying between Dhola and Port Albert Victor.
.....	Gratuitous relief and relief camp..	72,400	72,400	.....	Maintenance of invalid and decrepit old, and under-aged children and providing "roatis" for all relief workers during the rains.
Port Albert Victor.	Temporary poor house at P. A. V.	4	4	Building	.....
Do.	Port Albert Victor road.	11,452	14,312	Earthwork	Giving increased facilities to trade by connecting town with bundar.
Do.	P. A. V. town road ...	14,180	17,600	Do.	Bringing roads to proper level and partially rolling the same.
P. A. V. and Mahuva.	P. A. V. Mahuva road	66,588	83,800	Do.	For connecting Mahuva with Port Albert Victor and also with a future view to have a tramway.
Port Albert Victor.	Chanch point road ...	2,318	2,900	Earthwork	Road to connect P. A. V. to Tidal Observatory at Chanch point.
Do.	P. A. V. Wharf ...	10,999	12,375	Building	.....
Do.	Do. Bunder Improvement.	10,285	11,570	Earthwork	Increased facilities for trade.
Do.	P. A. V. water-supply.	18,754	23,460	Do.	Supplying the town with pure water.
Do.	Do. Cholera Hospital.	416	465	Building	For Cholera patients.
Do.	P. A. V. Pota talao ...	7,155	8,935	Earthwork	Enlarging and deepening the only tank at P. A. V.
Do.	Do. Canal ...	4,811	5,800	Do.	Diverting a nala into Pota talao.
Do.	Do. Sanitation ...	960	1,185	Keeping town clean	Keeping town and surroundings clean when crowded with relief workers.
Gadhda	Adtala and Pipal fodder camp.	2,075	2,580	Cultivating and growing fodder for cattle.	.....
Do.	Janada fodder farm...	1,343	1,460	Do.	.....
Bhavnagar	Bhavnagar Town wells repair.	5,597	6,890	Cleaning and deepening wells.	.....
Do.	Victoria Park wells repair.	1,411	1,595	Do.	.....
Gadhda	Wells at different villages.	3,898	4,347	Do. and digging new wells.	For irrigating cold weather crops.
Daskroi	Do.	1,058	1,322	Earthwork	Do.
Sihor	Irrigation scheme between Ramhari and Ambla.	21	26	Expenses incurred by Agency Engineer when leveling.	.....
Gadhda	Irrigation scheme for Haripar.	5	6	.....	.....
.....	Tools and plant purchase.	20,780	20,780	.....	.....
Bhavnagar	Store stock, metal and purchase.	49,101	49,101	.....	.....
.....	Tools and plants repair.	4,311	5,389	.....	.....
.....	Conveyance of tools and plants.	294	368	.....	.....

APPENDIX C.—*contd.*

STATEMENT giving details regarding Relief Works supplied by the State Engineer,
Bhavnagar State.

District.	Name of Work.	Amount of	Value of	Nature of work.	Utility of works.
		Income Expenditure.	work done at ordinary rates of con- struction.		
		Rs.	Rs.		
Port Albert Victor.	P. A. V. Kucheri ...	32,719	32,719	Building	... Offices for the officials in the Revenue and Judicial Departments.
Do. ...	Do. Dharambala.	16,683	16,683	Do.	... Accommodation for travellers.
Do. ...	Do. Workshop ...	2,068	2,308	Do.	... For carpenters and blacksmiths work.
Do. ...	Do. Rooms for Observatory clerk at Chanch point.	1,017	1,145	Do.	... Accommodation for clerks in charge of the Observatory.
Do. ...	P. A. V. quarters for Wahiwati karkoons.	5,340	6,105	Do.	... Accommodation for the office staff of the Wahiwatdar.
Do. ...	P. A. V. quarters for sepoy.	1,665	1,870	Do.	... Accommodation for sepoy in the Revenue Department.
Do. ...	P. A. V. Post and Telegraph Office.	3,096	3,378	Do.	... Residence for the P. A. V. Wahiwatdar.
Do. ...	P. A. V. Wahiwatdar's bungalow.	6,419	7,225	Do.	... Facility of trade.
Do. ...	P. A. V. Platform ...	1,320	1,470	Do.	... For shelter of perishable goods.
Do. ...	Do. Iron-shed ...	923	1,025	Do.	... For the safety of shipping and tidal observations.
Do. ...	Do. Lighthouse and Observatory.	7,229	8,190	Do.	...
Do. ...	P. A. V. Trade facilities.	1,374	1,598	.....
Do. ...	P. A. V. Latrines ...	543	685	Building	...
Do. ...	Do. Miscellaneous works.	3,326	3,741	Miscellaneous	...
	Total ...	12,08,043	14,23,386		

E. W. PROCTOR SIMS,
State Engineer.

APPENDIX D.

STATEMENT showing daily average numbers employed in each month on the different classes of works and the total units, including dependants relieved, and expenditure from August 1899 to September 1900.

Month.	NATURE OF WORK.						Units.	Expenditure (daily.)	Incidence per head.		
	Road.	Tank.	Building.	Miscellaneous.	Reclamation.	Harbour work.			Rs.	a.	p.
1899.											
August	Ningala-Gadhda Road	.....	.....	.....	.....	.....	2,790	288	0	1	8
	Sidsar Road Improvement	.....	.....	.....	.....	.....	450	48	0	1	8
	Lord Reay Road	.....	.....	.....	.....	.....	609	69	0	1	9
	Bhavnagar Town Road Repair	.....	.....	.....	.....	.....	726	86	0	1	10
		Khopala Tank	.....	.....	.....	.....	806	105	0	2	1
		Parbhudas Tank	.....	.....	.....	.....	2,646	450	0	2	8
			P. A. V. Dharamshala	.....	.....	.....	...	1,000	...	...	By contract.
September	Lord Reay Road	.....	.....	.....	.....	.....	5,252	726	0	2	2
	Ningala-Gadhda Road	.....	.....	.....	.....	.....	6,465	885	0	2	0
	Sidsar Road	.....	.....	.....	.....	.....	602	84	0	2	2
	Bhavnagar Town Road	.....	.....	.....	.....	.....	210	25	0	1	11
	Takhtsingji Steam Ferry Road	.....	.....	.....	.....	.....	1,502	162	0	1	8
		Moti Talao	.....	.....	.....	.....	3,183	360	0	2	7
		Ravapuri Tank	.....	.....	.....	.....	988	88	0	1	9
		Adhewada Dam	.....	.....	.....	.....	17	3	0	2	10
		Ghojari Vav	.....	.....	.....	.....	9	2	0	3	6
		Victoria Jubilee Water Works	.....	.....	.....	.....	18	2	0	1	9
		Parbhudas Tank	.....	.....	.....	.....	4,517	626	0	2	2
		Khopala Tank	.....	.....	.....	.....	125	26	0	3	4
	Road between Saw Mill and Railway line	.....	.....	.....	.....	.....	21	2	0	1	6
					Polo ground Improvement	.....	64	7	0	1	6
October	Lord Reay Road	.....	.....	.....	.....	.....	8,127	862	0	1	9
	Ningala-Gadhda Road	.....	.....	.....	.....	.....	5,750	606	0	1	8
	Sidsar Road	.....	.....	.....	.....	.....	455	72	0	1	8

APPENDIX D—contd.

Month.	NATURE OF WORK.						Units.	Expenditure (daily.)	Incidence per head.			
	Road.	Tank.	Building.	Miscellaneous.	Reclamation.	Harbour work.			Rs.	a.	p.	
October	Bhavnagar Town Road	245	52	0	2	7	By contract.
	Salt Pan Road ...	...	.....	.....	.....	.....	575	54	0	3	4
	Takhtsingji Steam Ferry Road	.....	.....	.....	.....	.....	174	27	0	1	6
	Parbhudas Tank ...	.....	.....	.....	.....	.....	945	79	0	1	6
	Moti Talao ...	.....	.....	.....	.....	.....	2,541	306	0	2	5
	Ravapuri Tank...	.....	.....	.....	.....	.....	2,414	286	0	1	7
	Adhewada Dam ...	.....	.....	.....	.....	.....	9	2	0	3	9
	Khilsara Tank ...	.....	.....	.....	.....	.....	1,099	108	0	1	7
	Ghojari Vav ...	.....	.....	.....	.....	.....	11	2	0	2	11
	Victoria Jubilee Water Works ...	.....	.....	.....	.....	.....	481	54	0	1	9
	Gadhda Wells ...	.....	.....	.....	.....	.....	222	27	0	1	11
	P. A. V. Kucheri ...	.....	.....	.....	.....	.....	...	10,256	...	...	...
	Victoria Park Improvement	.....	.....	.....	.....	.....	222	29	0	1	11
	Timber Float	.....	.....	.....	.....	.....	198	26	0	2	1
November	Lord Reay Road	11,069	1,173	0	1	8	By contract.
	Ningala-Gadhda Road ...	.....	.....	.....	.....	.....	4678	466	0	1	7
	Sidsar Road ...	.....	.....	.....	.....	.....	521	72	0	2	3
	Bhavnagar Town Road ...	.....	.....	.....	.....	.....	250	68	0	4	4
	Salt Pan Road ...	.....	.....	.....	.....	.....	450	45	0	1	7
	Takhtsingji Steam Ferry Road	.....	.....	.....	.....	.....	121	14	0	1	10
	Moti Talao ...	.....	.....	.....	.....	.....	3,121	323	0	1	8
	Ravapuri Tank...	.....	.....	.....	.....	.....	1,605	197	0	1	11
	Khilsara Tank ...	.....	.....	.....	.....	.....	1,171	138	0	1	10
	Victoria Jubilee Water Works ...	.....	.....	.....	.....	.....	547	61	0	1	9
	Irrigation Scheme between Ramdhari and Ambla	.....	.....	.....	.....	.....	11	5	0	1	3
	Irrigation Scheme at Haripur ...	.....	.....	.....	.....	.....	11	2	0	2	11
	Port Albert Victor Ob- servatory ...	.....	.....	.....	.....	.....	22	3	0	2	2
	Daskrohi Wells ...	.....	.....	.....	.....	.....	55	6	0	1	9

		Daskrohi Wells...	.....	.....	.....	.....	20	9	0	1	2
		Gadhda Wells ...	.....	.....	.....	.....	241	29	0	1	11
					Victoria Park Im-	.....	.....	.....	.....	.....	.....
					provement ...	.....	307	38	0	1	11
					Timber Float ...	.....	306	26	0	1	4
						Reclamation be-					
						hind Chadi-					
						ka Hill ...	990	121	0	1	11
						Port Albert					
						Victor Ob-					
						servatory ...	25	6	0	3	10
		Daskrohi Wells ...	.....	.....	.....	.....	251	27	0	1	8
		Gadhda Wells ...	.....	.....	.....	.....	56	6	0	1	8
December	...	Lord Reay Road ...	.....	.....	.....	.....	15,222	1,510	0	1	7
		Ningula-Gadhda Road	.....	.....	.....	.....	2,724	301	0	1	9
		Sidsar Road ...	.....	.....	.....	.....	489	210	0	1	9
		Bhavnagar Town Road	.....	.....	.....	.....	329	120	0	5	10
		Road between Saw Mill and	.....	.....	.....	.....	
		Railway line ...	.....	.....	.....	.....	27	3	0	1	9
		Salt Pan Road ...	.....	.....	.....	.....	614	55	0	1	5
		Moti Talao ...	.....	.....	.....	.....	1,277	136	0	1	8
		Ravapuri Tank ...	.....	.....	.....	.....	272	36	0	2	1
		Khilsara Tank ...	.....	.....	.....	.....	571	61	0	1	8
		Victoria Jubilee Water	.....	.....	.....	.....	
		Works ...	.....	.....	.....	.....	356	42	0	1	10
		Daskrohi Wells ...	.....	.....	.....	.....	127	28	0	3	6
		Gadhda Wells ...	.....	.....	.....	.....	350	74	0	3	4
					Victoria Park Im-	.....	.....	.....	.....	.....	.....
					provement ...	.....	240	25	0	1	8
					Gratuitous Relief ...	.....	27	4	0	2	4
						Reclamation be-					
						hind Chadi-					
						ka Hill ...	269	30	0	1	9
						Port Albert					
						Victor Ob-					
						servatory ...	61	33	0	4	7
1900	...	Lord Reay Road ...	.....	.....	.....	.....	14,635	1,481	0	1	7
January	...	Sidsar Road ...	.....	.....	.....	.....	155	18	0	2	0
		Bhavnagar Town Road	.....	.....	.....	.....	560	173	0	4	11
		Takhtsingji Steam Ferry Road.	.....	.....	.....	.....	32	4	0	2	0
		Moti Talao ...	.....	.....	.....	.....	6	1	0	2	8
		Victoria Jubilee Water	.....	.....	.....	.....	
		Works ...	.....	.....	.....	.....	35	7	0	3	2
		Daskrohi Wells...	.....	.....	.....	.....	286	24	0	1	4

March	Port Albert Victor Town Road	.....	.....	.....	.....	.....	210	30	0	2	8
	Do. Road	.....	.....	.....	.....	.....	484	49	0	1	8
	P. A. V. Water-supply.	.....	.....	.....	.....	.....	189	23	0	1	11
	P. A. V. Pota Tank	.....	.....	.....	.....	.....	25	3	0	1	11
	Daskrohi Wells	.....	.....	.....	.....	.....	190	32	0	2	8
	Gadhda Wells	.....	.....	.....	.....	.....	150	10	0	1	1
	Victoria Jubilee Water Works	.....	.....	.....	.....	.....	26	4	0	2	5
	P. A. V. Kacheri	.....	.....	.....	.....	.....	95	20	0	3	4
	P. A. V. Tel. and Post Office	.....	.....	.....	.....	.....	75	20	0	4	3
	P. A. V. Quarters for Sebandhi Sepoy	.....	.....	.....	.....	.....	17	12	0	11	3
	P. A. V. Quarters for Wahiwati Karoons	.....	.....	.....	.....	.....	112	30	0	4	3
	Miscellaneous Works.	.....	.....	.....	.....	.....	118	22	0	3	1
	P. A. V. Bundar Improvement	.....	.....	.....	.....	.....	410	51	0	1	11
	P. A. V. Observatory	.....	.....	.....	.....	.....	10	4	0	6	4
	P. A. V. Quarters for Observers for Observatory Clerk at Chanch	.....	.....	.....	.....	.....	20	7	0	5	7
	P. A. V. Wharf	.....	.....	.....	.....	.....	15	2	0	2	1
	P. A. V. Trade Facilities	.....	.....	.....	.....	.....	26	3	0	1	10
April...	Lord Reay Road	.....	.....	.....	.....	.....	1,150	97	0	1	4
	P. A. V. Road	.....	.....	.....	.....	.....	22,607	2,662	0	1	10
	P. A. V. Town Road	.....	.....	.....	.....	.....	2,050	281	0	2	2
	P. A. V. Mahuva Road	.....	.....	.....	.....	.....	1,190	107	0	1	5
	P. A. V. Chanch Road	.....	.....	.....	.....	.....	5,075	532	0	1	8
	Bhavnagar Town Road	.....	.....	.....	.....	.....	180	16	0	1	11
	Sidsar Road	.....	.....	.....	.....	.....	491	58	0	1	10
	Takhatsingji Steam Ferry Road	.....	.....	.....	.....	.....	18	3	0	2	8
		.....	.....	.....	.....	.....	18	3	0	2	8

APPENDIX D—contd.

Month.	Nature of Work.						Units.	Expenditure (daily.)	Incidence per head.
	Road.	Tank.	Building.	Miscellaneous.	Reclamation.	Harbour work.			
April...	P. A. V. Water-supply ...	.....	.....	.....	.....	570	57	Rs. a p. 0 1 10
		Daskroi Wells ...	.....	.....	.....	.....	554	74	0 2 1
		P. A. V. Pota Tank ...	.....	.....	.....	.....	280	30	0 1 8
		Bhavnagar Special Water-supply ...	.....	.....	.....	.....	412	162	0 6 8
		P. A. V. Kacheri ...	.....	.....	.....	.....	89	7	0 2 10
		P. A. V. Dharamshalla ...	.....	.....	.....	.....	3	1	0 5 4
		P. A. V. Quarters for Wahiwati Clerks..	.....	.....	.....	.....	85	33	0 6 2
		Quarters for Sibandi Sepoys ...	.....	.....	.....	.....	870	41	0 1 9
		P. A. V. Wahiwatdar's Uttara ...	.....	.....	.....	.....	51	17	0 5 4
		P. A. V. Cholera Hospital ...	.....	.....	.....	.....	68	21	0 5 4
		Miscellaneous works.	.....	.....	.....	.....	27	8	0 4 8
		Quarters for Observatory Clerk ...	.....	.....	.....	.....	5	1	0 3 2
		P. A. V. Observatory ...	.....	.....	.....	.....	18	5	0 4 5
		P. A. V. Wharf.	.....	.....	.....	.....	390	43	0 1 9
		P. A. V. Bandar Improvement ...	.....	.....	.....	.....	730	82	0 1 9
		P. A. V. Trade Facilities ...	.....	.....	.....	.....	75	8	0 1 8
		P. A. V. Canal...	.....	Gratuitous Relief ...	.....	.....	2,220	237	0 1 10
		P. A. V. Post and Tel. Office ...	.....	.....	.....	.....	111	11	0 1 7
			126	62	0 7 10

APPENDIX D—contd.

Month.	Nature of Work.						Units.	Expenditure (daily.)	Incidence per head.
	Road.	Tank.	Building.	Miscellaneous.	Reclamation.	Harbour work.			
									Ra. a. p.
June...	P. A. V.-Mahuwa Road	.....	.....	.....	.....	.....	1,689	225 0 2 1	
		Moti Talao ...	.....	.....	.....	.....	7	1 0 2 8	
		Daskrohi Wells...	.....	.....	.....	.....	211	44 0 3 8	
		P. A. V. Pota Tank	.....	.....	.....	.....	1,087	111 0 1 8	
		P. A. V. Canal	.....	.....	.....	.....	141	16 0 1 11	
			P. A. V. Kacheri ...	.....	.....	.....	58	7 0 1 11	
			P. A. V. Wahiwatdar Karkoons' Quarters	.....	.....	.....	180	47 0 4 2	
			P. A. V. Wahiwatdars' uttara	.....	.....	.....	78	27 0 5 6	
			P. A. V. Iron Shed.	.....	.....	.....	8	8 2 10 8	
			Miscellaneous work.	.....	.....	.....	82	5 0 2 6	
			Victoria Park Improvement	.....	.....	.....	215	22 0 1 10	
						Trade Facilities.	106	15 0 2 8	
						P. A. V. Observatory ...	18	2 0 1 9	
						P. A. V. Wharf	17	2 0 1 10	
						P. A. V. Bandar Improvement	175	18 0 1 7	
						.....	1,638	145 0 1 5	
						.....	56	18 0 5 1	
		Bhavnagar Special Water-supply	.....	.....	.....	.....	1,410	216 0 2 5	
		P. A. V. Water-supply	.....	.....	.....	.....	9,508	1,301 0 2 2	
July ...	Lord Reay Road	.....	.....	.....	.....	.....	6,119	621 0 1 7	
	P. A. V. Road	.....	.....	.....	.....	.....	326	36 0 1 9	
	P. A. V. Town Road	.....	.....	.....	.....	.....	4,807	497 0 1 7	
	P. A. V.-Mahuwa Road	.....	.....	.....	.....	.....

	P. A. V.-Chanch Road	.....	.....	.....	.....	.....	217	26	0	2	10
	Bhavnagar Town Road	.....	.....	.....	.....	.....	271	52	0	8	1
	P. A. V. Water Supply	.....	.....	.....	.....	.....	619	70	0	1	9
	Moti Talao	.....	.....	.....	.....	.....	36	8	0	8	6
	P. A. V. Pota Tank	.....	.....	.....	.....	.....	41	6	0	2	4
	P. A. V. Canal	.....	.....	.....	.....	.....	48	6	0	2	0
	Bhavnagar Special Water Supply	.....	.....	.....	.....	.....	49	9	0	2	11
	Daskrohi Wells	.....	.....	.....	.....	.....	19	4	0	8	4
	P. A. V. Kacheri	.....	.....	.....	.....	.....	29	6	0	8	8
	Quarters for Wahiwati Karkoons	.....	.....	.....	.....	.....	61	15	0	8	11
	Quarters for Sibandhi Sepoys	.....	.....	.....	.....	.....	11	2	0	2	11
	P. A. V. Wahiwatdars' Uttara	.....	.....	.....	.....	.....	97	42	0	6	11
	P. A. V. Post and Tele. Office	.....	.....	.....	.....	.....	11	5	0	7	3
	P. A. V. Workshop	.....	.....	.....	.....	.....	19	2	0	1	8
	Cholera Hospital	.....	.....	.....	.....	.....	8	1	0	2	0
	P. A. V. Iron Shed	.....	.....	.....	.....	.....	12	10	0	13	4
	Victoria Park Improvement	.....	.....	.....	.....	.....	261	30	0	1	9
	Miscellaneous Works	.....	.....	.....	.....	.....	210	32	0	2	5
	P. A. V. Observatory	.....	.....	.....	.....	.....	41	9	0	8	6
	Trade Facilities	.....	.....	.....	.....	.....	8	1	0	2	0
	Quarters for Observatory clerk	.....	.....	.....	.....	.....	7	3	0	6	10
	P. A. V. Bandar Improvement	.....	.....	.....	.....	.....	36	5	0	2	3
	P. A. V. Wharf	.....	.....	.....	.....	.....	27	5	0	2	11
August	Lord Reay Road	.....	.....	.....	.....	.....	2,525	205	0	1	4
	P. A. V. Road	.....	.....	.....	.....	.....	6,454	802	0	1	11
	P. A. V. Town Road	.....	.....	.....	.....	.....	691	50	0	1	2
	P. A. V.-Mahuva Road	.....	.....	.....	.....	.....	126	15	0	1	10
	P. A. V.-Chanch Road	.....	.....	.....	.....	.....	2,154	229	0	1	8
	Gratuitous Relief	.....	.....	.....	.....	.....	79	10	0	2	0

APPENDIX D—concl'd.

Month.	Nature of work.						Units.	Expenditure (daily).	Incidence per head.	
	Road.	Tank.	Building.	Miscellaneous.	Reclamation.	Harbour work.				
August	.....	P. A. V. Water Supply.	.....	.....	.....	.....	221	24	0 1 8	
		P. A. V. Pota Talao ...	.....	.....	.....	.....	35	4	0 1 10	
		Bhavnagar Special Water Supply ...	.....	.....	.....	.....	...	18,127	...	Tanks.
		Moti Talao ...	.....	.....	.....	.....	7	1	0 2 9	
		Daskrohi Wells...	.....	.....	.....	.....	12	8	0 4 0	
			P. A. V. Kacheri...	.....	.....	.....	27,147	...	...	By Contract.
			P. A. V. Quarters for Wahiwati Karkoons ...	.....	.....	.....	14	3	0 2 5	
			P. A. V. Quarters for Sibandhi Sepoys...	.....	.....	.....	8	1	0 5 4	
			P. A. V. Tele. and Post Office ...	.....	.....	.....	49	16	0 5 2	
			P. A. V. Wahiwat-dars' Uttara ...	.....	.....	.....	49	8	0 2 7	
			P. A. V. Cholera Hospital ...	.....	.....	.....	60	8	0 2 1	
			P. A. V. Iron Shed.	.....	.....	.....	5	6	1 3 2	Material.
				Victoria Park Improvement ...	.....	.....	259	80	0 1 10	
				Miscellaneous Work.	.....	.....	272	86	0 2 0	
				Gratuitous Relief ...	.....	.....	950	109	0 1 8	
						P. A. V. Observatory ...	...	4,670	.	Lamps.
						P. A. V. Wharf	...	4,742	...	Material.
					P. A. V. Bandar Improvement ...	721	90	0 1 11		
September	Lord Reay Road ...			P. A. V. Platform.	.....	.....	...	567	...	By Contract.
				Gratuitous Relief ...	.....	.....	2,359	386	0 2 8	
						251	30,062	...	Rowties.	

E. W. PROCTOR SIMS,
State Engineer.

APPENDIX E.

STATEMENT showing the daily average numbers of Men, Women and Children among Relief Works in the last week of each month.

Work people.	1899 August.	September.	October.	November.	December.	1900 January.	February.	March.	April.	May.	June.	July.	August.	September.	TOTAL.
Men ...	3,661	9,252	7,545	9,308	5,701	4,618	6,471	8,349	10,933	5,987	5,514	5,885	1,371	706	85,301
Women ...	4,825	13,372	11,639	14,684	8,955	7,016	10,127	12,892	31,149	8,741	8,199	9,116	1,913	1,130	1,43,758
Children ...	1,522	4,245	3,385	4,121	2,428	1,993	2,666	3,726	7,409	3,824	3,929	4,495	484	327	44,554
Total ...	10,008	26,869	22,569	28,113	17,084	13,627	19,264	24,967	49,491	18,552	17,642	19,496	3,768	2,163	2,73,613

151

E. W. PROCTOR SIMS,
State Engineer.

APPENDIX F.

STATEMENT giving the Expenditure of the Temporary Establishment employed on the Relief Works from beginning to the end of September 1900.

Month.						Amount.			Remarks.
1899.						Rs.	a.	p.	
August	...	...	...	...	...	322	0	0	
September	...	...	...	...	...	1,864	0	0	
October	...	...	...	...	...	2,675	0	0	
November	...	...	...	...	...	2,782	0	0	
December	...	...	...	...	...	2,488	0	0	
1900.									
January	...	...	...	...	...	1,950	0	0	
February	...	...	...	...	...	2,054	0	0	
March	...	...	...	...	...	2,951	0	0	
April...	...	...	...	...	...	3,454	0	0	
May	...	...	...	...	...	4,017	0	0	
June ...	...	...	...	...	...	2,109	0	0	
July ...	...	...	...	...	...	3,072	0	0	
August	...	...	...	...	...	2,172	0	0	
September	...	...	...	...	...	725	0	0	
Total Rs. ...						32,635	0	0	

E. W. PROCTOR SIMS,
State Engineer.

APPENDIX G.

COMPARATIVE STATEMENT showing the mortality in the affected districts from August 1899 to August 1900.

District.	1899 August.		Sept.	October.		Nov.		Dec.		1900 January.		Feb.	March.		April.	May.		June.	July.		August.		Total.		Death rate per thousand.					
	1897.	1899.	1897.	1899.	1897.	1899.	1897.	1899.	1897.	1899.	1898.	1900.	1898.	1900.	1898.	1900.	1898.	1900.	1898.	1900.	1898.	1900.	1898.	1900.	1897-98.	1899-1900.	1897-98.	1899-1900.		
Bhavnagar	83	57	185	55	186	64	180	71	104	148	126	87	64	98	134	27	149	591	99	1498	74	632	69	689	76	526	1878	4748	28.9	82.2
Sihor	18	45	18	33	31	48	27	35	38	50	51	48	53	52	57	45	60	25	156	20	84	27	90	29	105	452	847	45.2	84.6
Mahuva	85	45	22	64	23	70	34	49	88	34	30	28	30	29	74	46	71	80	88	27	309	44	238	47	144	618	1026	30.7	61.4
Kundla	25	73	9	56	22	54	18	39	98	41	57	25	78	28	95	18	155	24	264	15	480	25	237	30	161	428	1641	35.5	136.0
Lilla	6	9	8	14	7	18	7	6	16	6	24	12	14	8	9	9	27	5	48	9	209	7	46	13	32	110	448	57.2	238.1
Umrala	5	23	7	21	5	11	9	6	12	8	9	20	12	31	13	24	60	9	175	2	87	8	59	5	36	168	433	31.6	81.5
Botad	16	50	13	40	23	29	14	20	29	80	54	12	60	17	67	13	91	12	182	13	178	27	158	18	229	236	1064	37.0	137.8
Gadhda	20	18	9	21	14	24	23	17	30	20	37	10	35	17	40	8	56	19	381	8	149	17	72	17	165	190	1031	84.4	186.7
Talaja	11	13	8	17	13	10	14	17	10	17	17	25	5	31	7	19	11	10	53	7	26	13	68	9	74	188	321	48.4	82.3
Rajula (Port Albert Victor Mahal)	9	17	6	20	8	18	13	15	9	16	15	14	23	14	68	8	16	6	62	14	69	9	39	11	25	162	367	32.3	74.5
	83	202	428	150	422	209	402	230	308	368	348	331	258	412	361	457	339	1188	239	2355	189	2273	240	1677	254	1554	3860	11921	...	...

APPENDIX H.

STATEMENT showing the total quantities of Food Grains imported by sea in 1899-1900 as compared with 1877-78.

Grains.	1876-77		1877-78		1898-99		1899-1900	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
	Bengal Mds.	Rs.	Bengal Mds.	Rs.	Bengal Mds.	Rs.	Bengal Mds.	Rs.
Grain	191,730	4,50,825	162,323	4,74,379	227,144	4,82,245	1,644,897	63,09,239
Rice and Dal	183,190	6,32,250	197,968	5,73,481	351,065	12,16,850	1,722,886	76,60,029
Total ...	374,920	10,83,075	360,291	10,48,860	578,209	16,99,095	3,367,773	1,39,69,268

APPENDIX J.

STATEMENT of the monthly price in lbs. per rupee of Jowari, &c., during 1899-1900 and 1877-78.

Month.	Wheat per rupee.		Bajri per rupee.		Jowari per rupee.		Rice per rupee.		Ghi per rupee.		Gram per rupee.		Grass per rupee.	
	1877-78.	1899-1900.	1877-78.	1899-1900.	1877-78.	1899-1900.	1877-78.	1899-1900.	1877-78.	1899-1900.	1877-78.	1899-1900.	1877-78.	1899-1900.
August	lbs. 16	lbs. 18	lbs. 17	lbs. 20	lbs. 22	lbs. 24	lbs. 14	lbs. 15	lbs. 1-35	lbs. 2-0	.....	lbs. 21	lbs. 60	lbs. 120
September	14	16	14	16	17	18½	14	13	1-30	2-5	16	18	20	60
October	16	15	17	14	24	17	15	13	2-0	2-5	18	20	26	40
November	20	15	20	17	24	20	16	13	2-5	2-10	24	18	28	40
December... ..	17	16	17	18½	25	21½	16	13	2-5	2-5	24	20	28	50
January	16	15	16	18	23	20	14	13	2-5	2-0	24	20	30	50
February	16½	16	14	18	20	20	15	13	2-5	1-35	17	21	30	50
March	16	13	14	14	20	20	11½	13	2-5	1-30	20	21	30	60
April	17	16	16	16	20	20	12	14	2-5	2-0	19	21	30	70
May	17	15	16	15	20	13	11	14	2-0	2-0	19½	18	80	70
June	16	14	16	16	22	20	11	14	1-30	1-35	20	16	80	60
July	18	14	17	15	20	20	17	14	1-32½	2-0	17	17	90	30
August	17½	15	17½	16	22	20	16	14	1-35	1-35	18	16	125	50

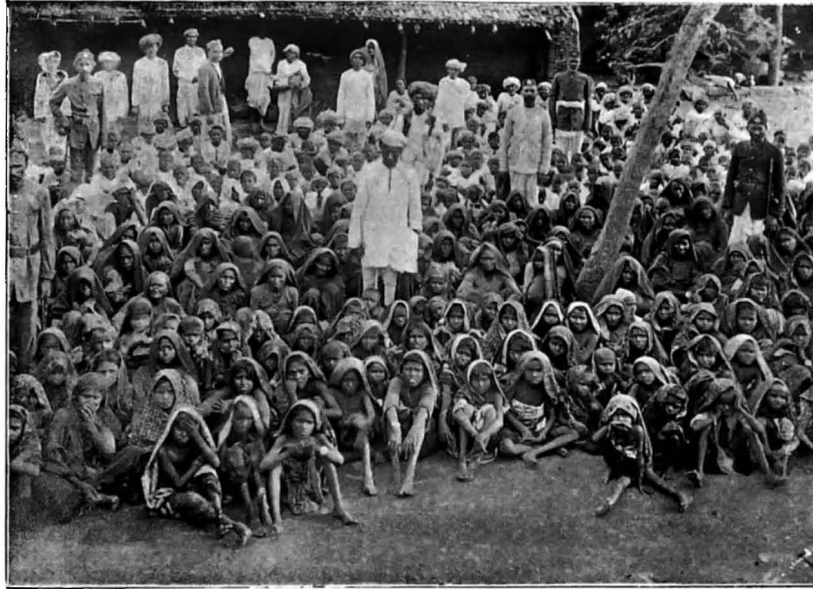
APPENDIX K.

STATEMENT showing the number of new tanks excavated and old ones deepened in the Bhavnagar State in 1899-1900 and the amount of expenditure incurred on them.

No.	No. of Tanks.	Name of District and Village.	Amount of Expenditure.	Total.
			Rs. a. p.	Rs. a. p.
1	4	BHAVNAGAR DASRKOHI.		
		Bhavnagar—		
		Parbhudas Talao	25,209 0 0	
		Moti Talao	29,063 0 0	
		Ravapari Talao	17,894 0 0	
		Victoria J. W. Works	8,845 0 0	
	1	Tarsimia	641 14 0	
	1	Budhel	718 15 0	
	1	Bhumli	619 14 0	
	1	Hathab	740 10 9	
	1	Trapaj	1,280 11 2	
	1	Bhandaria	1,195 6 10	
	1	Jaspara	741 10 9	
	1	Rajpara	363 6 9	
	1	Khadadpar	263 13 0	
	1	Sankhdasar	526 0 8	
	1	Sidsar	762 12 0	
				83,866 2 11
2	15	MAHUWA.		
	1	Amratwal	11 13 2	
	1	Gadhada	563 0 0	
	1	Dhudhálá	458 4 2	
	1	Motá Jadrá	461 4 6	
	1	Khubhan	561 14 1	
	1	Dudhálá Mota	345 3 8	
	1	Náná Asráná	437 10 5	
	1	Bhadrod	673 14 0	
	1	Rupavati	571 15 7	
	1	Nikol	573 6 7	
	1	Naip... ..	215 1 2	
	1	Maluva	215 1 10	
	1	Náná Khuntavdá	128 1 0	
				5,215 10 2
3	13	TALAJA.		
	1	Unchadi	752 14 11	
	1	Methala	1,104 4 4	
	1	Bhadrawal	791 9 3	
	1	Déhor	304 13 3	
	1	Kundhadá	1,044 9 3	
	1	Sathra	450 0 0	
				4,448 3 0
	6			

No.	No. of Tanks.	Name of District and Village.	Amount of Expenditure.	Total.
8	UMRALA.		Rs. a. p.	Rs. a. p.
	1	Parwala	871 9 7	
	1	Timba	399 4 8	
	1	Ujalwaj	897 0 1	
	1	Bhandaria	230 14 5	
	1	Dhasa	850 7 5	
	1	Noghauvadar	211 8 6	
	1	Sarkadia	110 8 0	3,071 4 8
9	KUNDLA.			
	7			
	1	Bhuwa	479 11 0	
	1	Adsang	203 15 8	
	1	Dhar	191 14 0	
	1	Khadkala	529 5 11	
	1	Moldi	180 15 7	
	1	Dadhia	506 7 10	
	1	Borola	366 9 6	
1	Amratwel	277 14 2		
1	Sarkadia	306 10 9	3,043 8 0	
10	BOTAD.			
	9			
	1	Botad	2,245 4 6	
	1	Dhankania	1,973 14 3	
	1	Jotingda	365 4 8	
	1	Tardhara	992 10 8	
	1	Samadhiala	224 5 8	
	1	Lathidad	1,693 5 10	
	1	Patna	985 5 9	
	1	Chakampar	189 4 0	
1	Ratanwaj	990 5 8	9,659 11 9	
11	(RAJULA) Port Albert Victor.			
	9			
	1	Pota Talao	7,155 0 0	7,155 0 0
	94	GRAND TOTAL ... ..Rs.	.....	1,37,857 11 8

One Lakh thirty-seven thousand eight hundred and fifty-seven rupees, eleven annas and pies eight only.

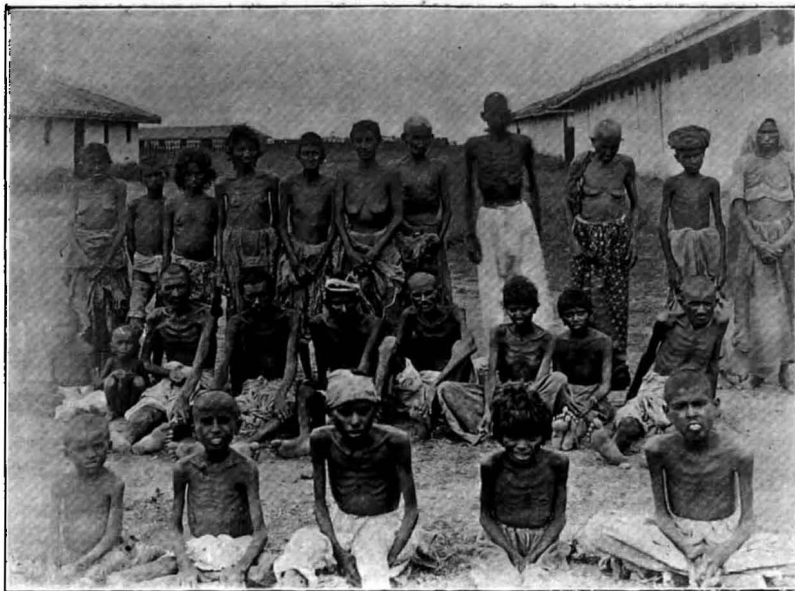


(i)

A general view of the Ashram.

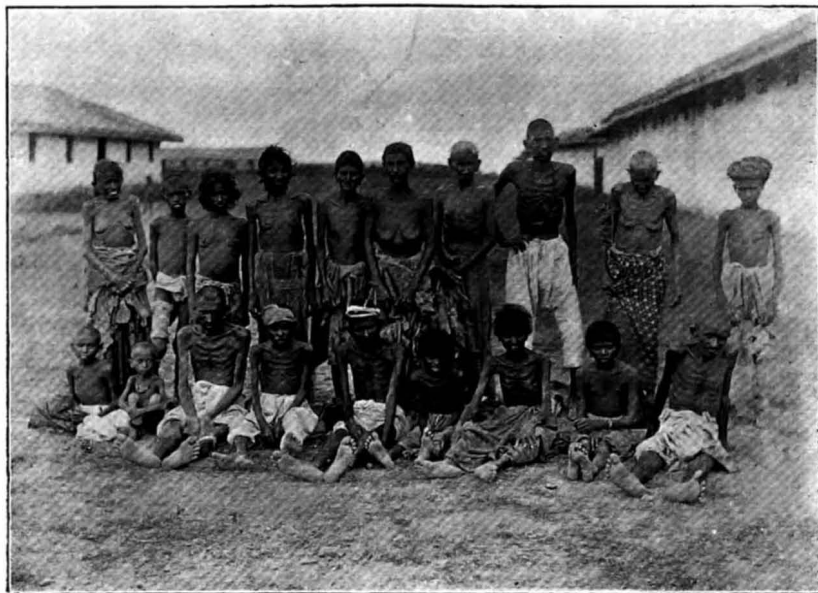


(2) A general view of the Ashram while the Inmates are at work.

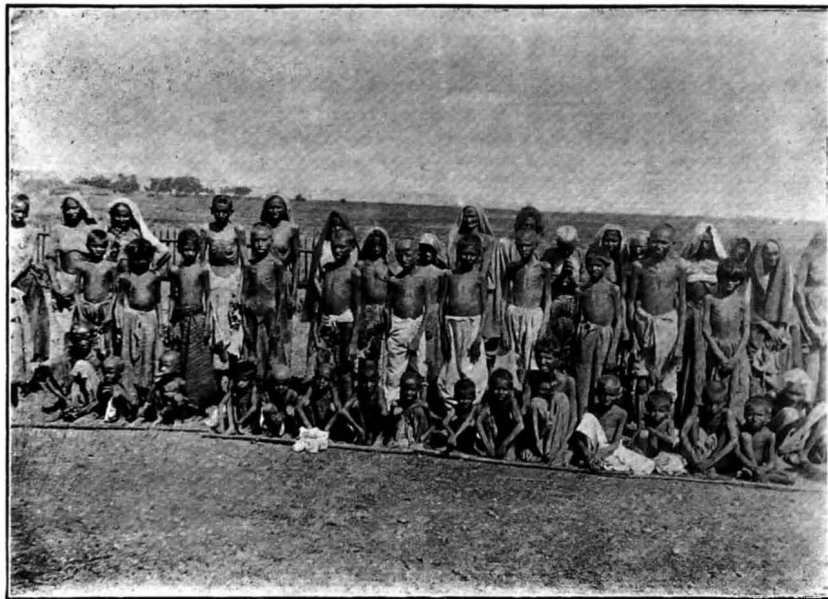


(3)

Some of the Inmates at the time of First Admission.

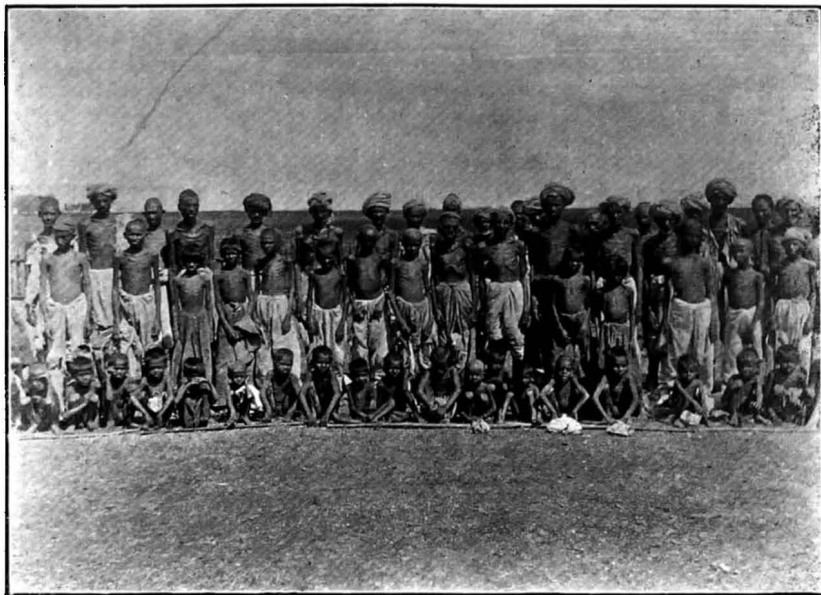


(4) **Worst Types of the famine-stricken people at the time of Admission.**



(5)

Females with their children at the time of Admission.



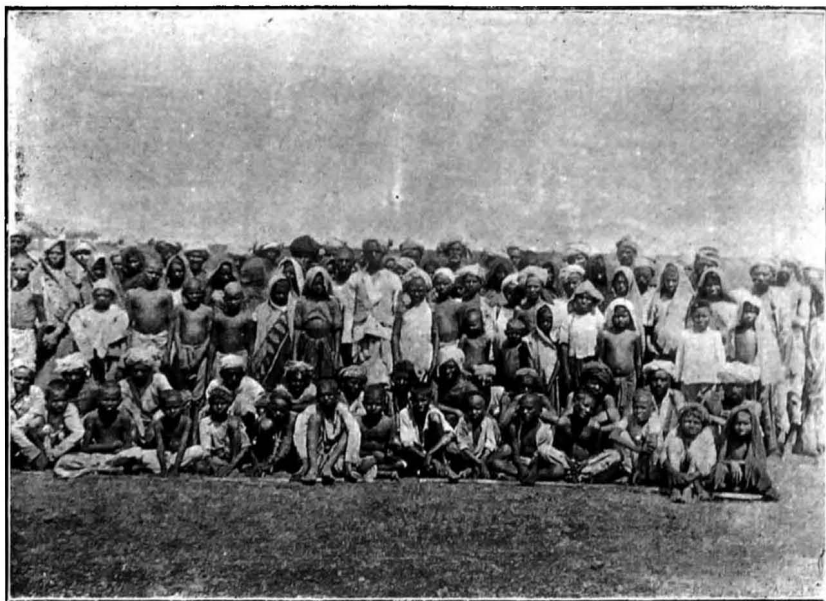
(6)

Males with their children at the time of Admission.



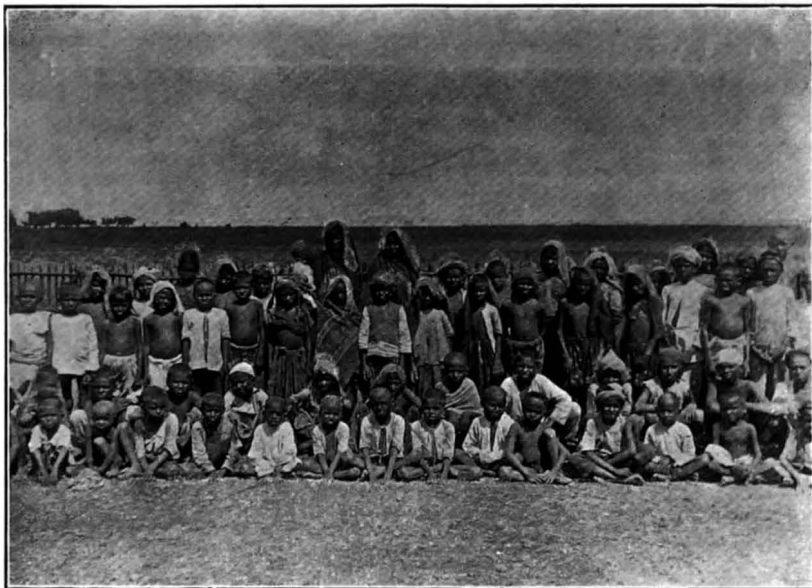
(F)

Orphans with their Nursing Mothers.



(7)

Inmates of the Ashram after their stay for 3½ months.



(F)

Orphans with their Nursing Mothers.



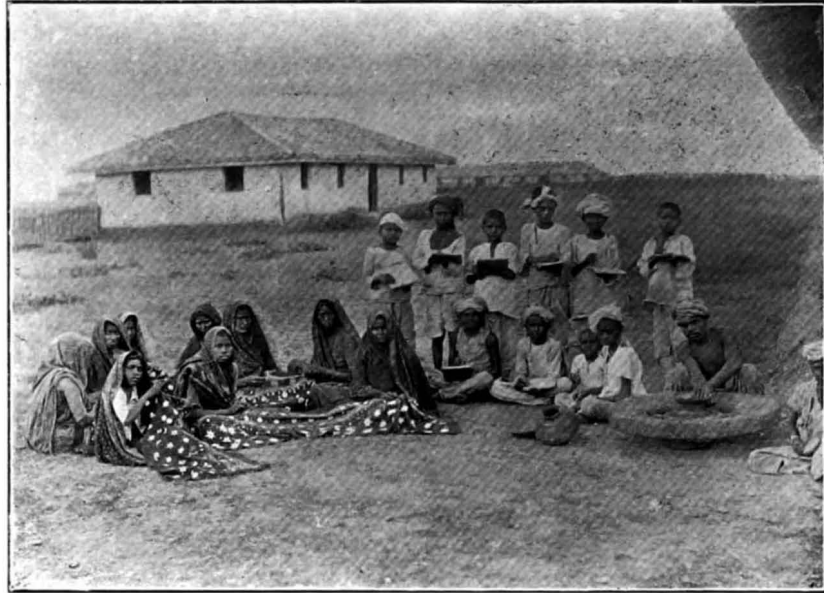
(9)

Breakfast Time.



(10)

Lepers near their Quarters.



(11) **Women sewing, boys studying and the Potter working at his wheel.**