### APPENDIX

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TO THE

### FAMINE REPORT

FOR

1918-19

-1- 12353.6. P.

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**Y:4353:6.231r** A90 030030

#### APPENDIX 1.

#### (Referred to in paragraph 3 of the Resolution). Statement showing the rainfall in inches of the season of 1918, compared with the average.

						1			l
	Dis	strict and Station.		June,	July.	August.	September.	October.	Novembe
		Ahmedabad.							]
Daskroi		<b>1918</b>		1.38	2 03	3.25	1'34	* .4.	ļ
LASKIO	•••	Average		3.97	12.58	7.54	4'30	0'41	0'14
Parantij		∫ 1918		1.34	0.22	4.23	0.12		
Landing	•••	… { Average		4.12	1 2.90	8.55	3.92	0.33	0.12
Viramgam		∫ 1918	•••	0.24	2.42	5.17	0.06	•••	
		Average	•••(	3.23	11.20	6.67	3.90	0.29	0.34
		Kaira.							
Kaira		{ 1918		0.40	4.74	1.94	0'20	•••	
		Average	[	4`35	14.90	8'32	·4·61	0'44	0.55
Nadiad		1918		0.71	2.02	3.78	oʻ78	•••	
		Average		4.41	14'47	9.36	4'83	0.42	0.52
Thasra		1918		1.42	0.22	7.01	°'75		
		Average		4.88	12.80	8.74	3'99	0'40	0.11
	ľ	Panch Mahals.							
Godhra		, 1918 ∫		3.18	2.98	8.35	0.93		
		Average	•••	5'72	15.37	10.47	6.38	0.76	0'13
Halol		∫ 1918		2.33	2.00 ~	9'04	0 <sup>.</sup> 54		
		Average		5`34	17.35	10.01	6.20	1.04	0.11
Jambughod	a	{ 1918		1.78	4.04	8.01	0'36	•••	
,8	-	Average		7.05	17.58	12.18	5'78	0.42	0.30
		Broach.		عد					
Broach	•••	{ 1918	•••	1.05	8.10	2 48	0.12		•
		Average		7.66	16.61	7.88	6.30	1.11	0.31
Vagra		{ 1918		0.80	8.01	1.43	0.13	•••	
- <b>-B</b>		Average		5'79	12.58	6 <sup>.</sup> 67	4 <sup>.8</sup> 7	0.96	0.14
Jambusar		1918		<b>0</b> *34	4.48	3.64	0`34		
<b>J</b>		Average	•••	5.21	13.42	7 <sup>.2</sup> 7	5'42	0'92	0.10
	E	last Khandesh:	l						
Jalgaon		{ 1918		4.10	4.13	3.46	1,10	0.84	1.40
, 8		(Average		4 89	9.87	671	5.82	1,00	0.47
Bhusaval		<b>1918</b>	!	3.78	7`79	3.22	0.50	0.01	1.55
		( Average	•••	5.02	8.96	5.90	5'46	0.92	0.22
Edlabad	•••	∫ 1918 		2.30	4'30	1.83	0.22	•••	1.87
		Average	•••	4 51	7.46	5.90	5'14	1.02	0.50
	и	Vest Khandesh.							
Dhulia		{ 1918		2.72	2.60	2.15	0'45	0.01	1.11
-		( Average		5.18	5'47	3.62	5.01	1.43	0.66
Sakri		J 1918		0.78	3.38	1'28	0'38		0.01
	<i>,</i> .	Average	•••	4`35	5.41	2.01	3.48	1'24	0 50
Sindkheda		1918	•••	1.55	1.90	3.52	▶ 0'23		
		…] Average		4.60	6.09	3.60	4.11	o <sup>.</sup> 86	0.38

APPENDIX I-contd.

-	Distr	ict and Station.		June.	July. •	August.	September.	October.	Novembe
•		Nasik.							
		8191		1.64	1.03	7.68	o.58	o <sup>.</sup> 18	0.10
Vasik	•••	Average		5.77,	9.12	5.00	5'95	2 87	0'49
		( 1918		2.10	1.32	3.02	1.80	<b></b> .	0'1;
Niphad	•••	Average	•	4'36	4.91	3.08	5.00	1'97	0.22
		<b>(</b> 1918	•••	1.82	1.10	- 1.48	0.20		
Baglan	•••	{ Average	***	4.02	4.59	2.33	3.78	1.29	0.60
、		Ahmednagar.				-			
		( 1918	_ ···	1.25	0.71	0.42	. 4.15	0.78	0.0
Ahmednag	ar	···· (Average	•••	4.73	3.21	2.88	6 62	2.76	0.82
· · · ·		, 1918	•••	1.23	1.40	0.50	1.80	0.82	0.00
Shrigonda	•••	••• { Average	•••	3 68	2-34	2.18	5.54-	2.73	0.02
		1918		0.10	0.90		- 3'49	0'40	2.7
Karjat	•••	{ Average	•••	_4'11	2 63	2.90	6.17	2-31	0-7
•		Poona.					<u> </u>		. :
• •			-		1.03	2.30			 1.11
cona	•••	{ 1918		· 0.31	•		3.01	. 1.74	
		Average	•••	5.62	767	377	4.70 0.86	4'04	0.96
Dhond		{ 1918		0.18	0.87	0.04	1	0°96	1.28
	~	( Average	•••	<u>3</u> '77	2`80	- 1'90	5.09	2.14	0.73
ndapur	•••	{ 1918	••-	-1.47	_ 0.43	0.30	2.28	0.03	}
,		Average	· · · ·	3°54	2.57	2.20	6.34	3-42	0'97
		Sholapur.		-	,			ŀ	{·
		1918		10'40	1.29	1.31	13.91	-	0.8
Sholapur	•••	"{ Average	•••	4.12	4.28	4.74	7.57	2.93	0.8
		1918		8.42	1.31	0'70	10.33	3.44	0.0
Karmala	•••	···· { Average		4'14	2.99	3.12	6.94	2.69	0.0
		1918 -		6 59	1.44	<b>0</b> 08	7.80	1.00	1.3
Malsiras	***	Average		2.80-	2 55	2.04	6 27	2.93	. 0.8
		<b>6</b> .		-	•	• •			· ·
·		Satara.			1	· ·		· ·	
Satara		{ 1918	•••	1.11	317	5.04	0.95	0.38	2.2
•		. (Average		6.88	14.07	775	4.29	3.20	1.1
Man	••••		¥ •••	0.76	0.43	0.11	2.80	0.04	2.0
÷	-	(Average	•••	3.31	2.37	1'82	5.20	3.00	0.2
Khanapur	•••		•••	1.43	o 28	1.01	3.20	0.32	0.8
	-	Average	•••	3'47	3.99	2.84	5.22	3'40	0.7
	-	Bijapur.	-	•	-			1 .	
Bijapur		1918	•••	0.62	0.42	0.10	3.02	0.03	0.3
Dijapur	•••	Average	; 	3.30	2.64	3.01	6.26	3.93	1.3
Indi		1918	•••	1.32	0.92	1.28	5.22	008	3.3
1001	•••	Average	<i>′</i>		2.95	4.14	6.83	- 3'55	0.7
D:1 *		[ 19·8		1.11	0'12	0.42	5.90	0.33	4.6
Bilgi	•••	{ Average			2'03	2'44	5.81	3.30	0.7
						- <b></b>	1 30	540	1 7

Dist	rict and Station.		June.	July.	August.	September.	October,	November
	Belgaum.	1		-				
Belgaum	<b>∫</b> 1918		2.13	4.42	9 <sup>.</sup> 46	<i>2</i> 94	1.02	1.92
Belgaum	{ Average		8·26	16'92	9.52	4'95	4 76	1.31
• Gokak	<b>∫</b> 1918		4.72	0.10	1.33	a.08	1.92	4'32
Сокак нь с	Average	•••	3.45	3.00	2.71	3.87	5.25	1.32
Athni	1918	•••	2.62	0.02	0.50	4'37	V 0.32	2.39
Athni	···· { Average	•••-	3.17	2.85	2.08	5.55	4.24	0 96
	Kathiawar.							1
Belleek T	1918		0.22	6.08	0.69	1.22		
Rajkot	"`` ] Average	·	4'40	10.54	5*49	3.90	0.32	0.52
	Rewahantha.							
	- [ 1918		1.30	1.60	8.01	1.79	·	
Pandumewas	Average	[	781	13.51	8.59	4'89	* 1'91	0.10

APPENDIX 1-contd.

#### APPENDIX 2.

#### (Referred to in paragraph 16 of the Resolution.)

#### REPORT OF THE COMMITTEE

#### OF THE

#### BOMBAY PRESIDENCY FAMINE RELIEF FUND.

#### (Without appendices.)

Throughout the war among the many difficulties and anxieties it is to be doubted if any caused the Government of India and the local Provincial Governments more apprehension than the possibility of a bad season, as large quantities of fodder and food-grains were exported from India for military requirements to many of the seats of war, and in some cases to help the Allies of Great Britain even for their Civil requirements. However, the monsoon failed at last, but, luckily by the time that the monsoon definitely proved a failure, the war had also come to an end. The situation which would thus otherwise have been almost beyond the resources of the Government to deal with during the war period became comparatively tractable. If it had occurred the year before or if the war had continued another six months it might have paralyzed the operations in Mesopotamia and caused much greater hardships to the masses of the people in the affected provinces of India. Before considering the adequacy or propriety of the measures taken to deal with the situation which had arisen, it is well exactly to state what the situation was. The population of the Indian people is at a low estimate 320 million souls. Taking the usual calculations it requires 64 million tons of food-grains to feed them. In his recent speech in the Imperial Council the Hon'ble Mr. Mant, Member for Revenue and Agriculture, pointed out that in wheat and rice alone the deficit last season was estimated at 15 million tons. The total deficit it may be assumed was at least 20 million tons, that is to say, crops which normally would have fed hundred millions of people either were not sown or failed to mature. Mr. Mant said that the failure in some provinces was at least as wide spread as in 1899 and Mr. C. A. Innes, the Food-stuffs Commissioner, observes to indicate the gravity of the situation. The deficit could only be made up by drawings on reserve stocks, by exercise of economy and by importations from abroad. The problem was, however, further complicated in each

Economy in such cases is enforced by high prices or a reduction in purchasing power. The purchasing power of the people was higher on the whole than in 1899, but even to this purchasing power of the masses there is a limit, and this limit was very fully reached at least in the Bombay Presidency before the end of 1918, that is, at the commencement of the period of scarcity and famine which necessitated the starting of the Bombay Presidency Famine Relief Fund.

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Appendix (A) gives a table of rainfall in the various districts of the Bombay Presidency during the monsoon of the year 1918. The principal districts affected were as under :-

	•	• • • • • • • • • • • •	
Kathiawar.	Kaira.	Ahmedabad.	
Broach.	West Khandesh.	Thana.	
Part of Satara.	Rewa Kantha Agency.	Nasik.	
Ratnagiri.	Kolaba.	Surat.	
	Kathiawar. Broach. Part of Satara.	Kathiawar. Kaira. Broach. West Khandesh. Part of Satara. Rewa Kantha Agency.	Kathiawar. Kaira. Ahmedabad. Broach. West Khandesh. Thana. Part of Satara. Rewa Kantha Agency. Nasik.

The first four of these were stricken by famine, and the others suffered either wholly or in part in patches from acute scarcity.

Appendix (B) gives a statement of prices of food-grains in the Bombay Presidency in December 1918 as compared with the prices prevailing before that period. The phenomenal rise in prices of food-grains and other necessaries of life in the Bombay Presidency brought about either directly or indirectly labour troubles in the chief centres of industry in the Presidency. The Mill-hands of Bombay numbering well over I lakh went on strike in the month of February, and this strike which lasted for nearly a fortnight terminated only on the intervention of His Excellency the Governor of Bombay. Similar restlessness was perceived in other parts of the Presidency and it was clear at an early stage that efforts would have to be made on a fairly large scale to supplement Government measures for not only affording relief to the famine stricken but also for making food-grains at the cheapest possible rates available to the people of the Presidency.

Leading citizens of Bombay requisitioned the Sheriff of Bombay (the Hon'ble Mr. Mahomed Hajibhoy) to convene a meeting of citizens of Bombay for the purpose of starting a Famine Relief Fund and of organising a Committee to distribute the same. In accordance with the requisition a public meeting of the citizens of Bombay was held at the Town Hall on the 29th November 1918 under the Presidentship of His Excellency Lord Willingdon. (Average and the presidentship of His Excellency Lord Willingdon. (Average and the meeting. Appendix (D)\* gives the names of the Appendix (C)\* gives a full report of the meeting. Members and other Office Bearers of the Committee appointed at the meeting.

Members and other Office bearers of the Committee appointed at the meeting. The first and foremost problem that confronts a Committee organised to run a Famine Relief Fund is the collection of money, and as a good beginning in that direction had been made by philanthropic citizens at the Town Hall meeting where Rs. 2,13,000 were an-nounced by His Excellency the Governor of Bombay as having been promised, the Committee set at once to start relief operations. The total contributions received amount to Rs. 11,47,831-7-1 as per Appendix (E)\*. Where everybody may be said to have paid generously and almost without any special efforts to ask for subscriptions, it may be invidious to single out any particular donors for special mention here. However, the following contributions deserve special mention for reasons which will be obvious:-contributions deserve special mention for reasons which will be obvious :---

The Western India Turf Club being p	roceeds of a s	pecial	Rs.	a.	<b>P</b> •	
racing day ,			1,82,719	0	ο	
N. M. Wadia, C.I.E., Charity Fund	-4-		75,000			
Indians in Uganda Protectorate			9,000			
Indians in Japan		• •••	3,549	. 8	0	
Collection made by a special contril		" The				

Collection made ection made by a speci Gujerati" ... · .... 8,480 8 0 . ... ....

Besides the above, several public spirited citizens of Bombay gave large sums at the start and also extended their generosity a second time by a further donation when in February 1919 the Committee decided to ask for a second contribution from the public at large.

The Indian People's Famine Trust, Delhi, very generously gave Rs. 3 lakhs to this Fund besides lending without interest Rs. 1 lakh for purposes of financing the grass and grain that was being moved in comparatively large quantities to the affected areas.

The Executive Committee desire to express their cordial thanks to all the contributors to this Fund and wish particularly to refer to people who sent small sums voluntarily to the Honorary General Secretary and Treasurer. The amount realised by such small sums under Rs. 50 comes to about Rs. 4,030.

It was decided to organise District Committees in the various affected parts and to this end necessary steps were taken. As during a period of famine Executive Government Officers in affected parts are generally very busy, it was decided to entrust the work of organising District Committees and of distributing relief to non-officials as far as possible with the co-operation of Revenue Officers.

Appendix (F)\* gives the names of Members of such Committees formed in the various districts and generally gives details regarding the channel through which this Fund's help was distributed in each district.

It was not necessary to organise Committees in Cutch as leading citizens of Bombay coming from Cutch had from the very start organised relief work in their own native places partly with their own money and partly with money collected by them from their friends in Bombay. But there were places in Cutch where the distress was keen and from where nobody of standing or great influence happened to be in Bombay. The Committee turned their attention to such places and distributed relief there in the first instance. To this end Mr. Khattao

Valji of Manjal, Cutch, volunteered his services for relief in Waghad and Rs. 25,000 were spent through him. Besides this Rs. 16,000 were given to Mr. Vallabhdas Hirji for relief work at Nalia and fair quantities of rice were supplied to reliable gentlemen that applied for same for sale at cost price in Cutch.

In the Colaba and Ratnagiri Districts no Committees were organised as no applications for help from non-officials came from those districts. In the month of May, however, Mr. C. S. Deole of the Servants of India Society very kindly offered to go round the Ratnagiri and Kolaba Districts to report on the condition of the people there. He particularly eulogised the very satisfactory arrangement made by Mr. S. M. Bharucha, Collector of Kolaba, for supply of rice in that district and also gave satisfactory report regarding the charitable Fund that Mr. Bharucha had started to supplement Government doles in his district. In fact Mr. Bharucha did the work of a non-Official Committee for his district on his own and his efforts in this direction deserve all praise.

The Committee gave Mr. Bharucha Rs. 5,000 towards the charitable Fund that he had started and from various reports received by the Committee it would appear that Mr. Bharucha ran the official famine relief operations in his district with great success and also managed to start the work that is ordinarily done in districts by non-Official Committees. Mr. Deole had one or two minor suggestions to offer to Mr. Bharucha through this Committee and these suggestions were at once complied with.

The Collector, Ratnagiri (Mr. C. G. Henderson, I.C.S.), applied to this Committee for a grant to supplement the Government doles and Rs. 5,000 were voted for this purpose. Mr. Henderson returned to this Committee the unexpended balance of Rs. 4,391.

The Executive Committee wish to express their appreciation of the valuable help given ( to them by all District and Taluka Committees and also by Government Officers and nonofficial leaders of the people in the affected parts. They also wish to mention here the assistance given to them by various Missionary Societies, notably, the Salvation Army, which rendered useful assistance in distributing relief.

It has been recognised before now that a fodder famine is comparatively very difficult to deal with. This is particularly so in a cattle-breeding tract like Gujerat, for it gravely imperils agricultural resources, and makes complete recovery from its effects a matter of years. At the very start of its operations the Committee received a practically endless number of applications for supply of fodder. These came not only from Gujerat and Kathiawad but from the Deccan also. The price of grass in the beginning was very nearly double of what it was in December 1911 and owing to this, besides applications for supply of grass, the Committee received appeals for sale of grass at rates which could be well within the means of cattle-owners, both agricultural and others in the affected parts. It, therefore, became necessary for the Committee to buy large quantities of grass wherever available, but it was incumbent on it, at the same time, to buy grass in centres where the operations would not clash with (1) Government requirements for military purposes and (2) with transport facilities for military purposes and for purposes of carriage of grain to the affected parts. In the Bombay Presidency the Government of Bombay declared certain areas between the stations of Palghar and Surat as areas restricted for purposes of removal of grass. Large quantities of grass were being exported from this area by the Government of Bombay through the Special Grass Officer to the affected parts, and this Committee took particular care to ensure that the concessions that the Government of Bombay were prepared to give to this Fund for the removal of grass to the affected areas were not so used by them as to impede these Government operations. The Committee therefore turned their attention very early to purchase of grass from other grass centres in India. Special applications were made through the Bombay Government to the Military Department of the Government of India for release of stocks held by that Department, and the requests were supported by the Bombay Government and met with a certain amount of compliance on the part of the Military authorities. Appendix (G) gives a complete list of the persons and places from whom and at which or through whom grass was bought by this Fund and the places to which it was moved. The Railway authorities generally, and the Executive Officers of the Great Indian Peninsula and the Bombay, Baroda and Central India Railways in particular, gave every possible facility and convenience to the Officers of this Fund for removal of grass to the affected parts. Considerable difficulties and delays were feared by this Committee in their grass operations as a good deal of the grass had to be bought at distances which were as far away as eight hundred miles from the place where the grass was required. It is only fair to mention that the Government of Bombay uniformly helped the Committee in every direction that the Committee asked for help and were keen on complying with any request that the Fund made to them in the direction of speedier movement of grass to the affected areas. 'No suggestion of this Committee ever went unheeded by the Government and if there have been delays in getting to this Fund the concession rate on freight for grass, the Committee are satisfied that the Government of Bombay are not responsible for it,

Concession rates for movement of fodder by rail were not sanctioned at the commencement of the famine as in 1911-12 for reasons which the Government of India have not yet made public. But the Committee of this Fund felt very soon after the commencement of their grass operations that it was very necessary, looking to the very high prices of fodder prevailing, that concession in fodder freights should be made available to the affected areas under certain general restrictions if necessary. Applications to this end were submitted through the Government of Bombay to the Government of India in the Revenue and Agricultural Department and this Committee are pleased to be able to report that such concessions were eventually granted to them. But it must be observed that if these concessions had been sanctioned in the earlier stages of the period of famine very useful additional work would have been accomplished and grass could have been sold at rates lower than was actually the case. In view of the long distances from which the major quantity of the grass had to be imported, the amount of Railway freight concession made quite a substantial difference to this Fund and if it had the concession when the grass was actually moved the relief to the cattle would have been greater; for it could have been so much cheaper to the owner of the cattle. As these concessions were only sanctioned by the Government of India after considerable delay, though with retrospective effect no doubt in some cases, the full benefit of the concession has not been fully availed of by the affected parts. As a matter of fact in some cases applications for refund are still before the Railway administrations concerned, and a good deal of the surplus in the hands of this Committee, as to-day, is due to the refund received from Railway companies on the basis of the fodder freight concession rates as sanctioned by the Government of India.

Owing to continued great pressure on the Railway lines everywhere, all the districts in the affected areas which commanded seaports or bunders were asked to import fodder by sea; and even where transport by rail meant economy in freight, as far as possible no district which could import grass by sea was allowed to import it by rail unless for some very good reasons.

Pinjrapoles, Gowshalas, and other institutions working on similiar lines were very persistent in their applications to this Fund for supply of grass even at full cost price rates. The Committee referred all such applications to the Collectors of the Districts concerned and refused help to such institutions at the start. The claims of such institutions were however so insistently pressed by people in the districts concerned, that it became incumbent upon this Committee to look into all such demands closely. It transpired on full inquiry that most of these institutions had in spite of the unwillingness of the managers thereof become the refuge of cattle of all qualities in those parts. The Committee therefore suggested to Government that applications for grass to Pinjrapoles and similiar bodies should not be turned down absolutely but that a practical method of ensuring that the Pinjrapoles, which were allowed to import grass, used it to the best effect, should be laid down. It was suggested that the Veterinary Department of the Government of Bombay should have a special Inspectors who would report on the existing state of affairs and lay down certain rules for the guidance of the managers of such institutions. On these rules being assured of compliance, the Committee suggested that Pinjrapoles and Gowshalas should be allowed to import grass in quantities that might be suggested by the Inspectors of the Veterinary Department. The Committee felt that as most of the Pinjrapoles and Gowshalas commanded subscriptions of money from sources which could not be tapped otherwise, it was hardly discreet to let these sources of financial help in the direction of saving cattle in the affected areas go unused. With this aim in view 4,36,273 lbs. of grass and husks were supplied at cost price to the Ahmedabad Pinjrapole at a period when the Pinjrapole was in a very sad plight regarding feeding even the useful cattle in it.

One of the main features of the present fodder famine was the great encouragement that it afforded for the purpose of popularising cactus as a species of fodder. This was tried in almost every district with considerable success, but the Committee felt it could only be used by degrees for cattle not accustomed to cactus, and therefore grass was made available as a preference to districts where cactus was used. Various Press Notes and Reports issued by Government give very full accounts of the places where cactus was tried with success and it is hence not proposed to repeat all this information here. The Committee particularly helped the experiment of cactus as fodder in the Panch Mahals through the Salvation Army, in the Poona and Nasik Districts through the Local District Committees. Besides this in the Ahmednagar District the Committee concentrated its attention on supply of grass for the cattle of that district as the Collector of Ahmednagar had vigorously taken up the task of popularising cactus as fodder.

The most interesting and useful work during the period has been the experiment of growing fodder on the Bet in the Nerbuda by means of irrigation with water pumped from the river. This possibility was first brought to the notice of the Committee by Mr. Haribhai Zaverbhai Amin of Broach and it should be mentioned to the credit of the Government of Bombay that they very promptly sanctioned the experiment which in many respects obtained a considerable measure of success as stated in the Report of the Director of Agriculture and remarks of the Mechanical Advisor to the Government of Bombay given in Appendix (H). Had this experiment not been tried, this Committee would have had to send at least ten lakhs lbs. of additional grass to the Broach District involving a loss of not less than Rs. 5,000. Besides this the Government would have had to send considerably more grass than they actually did and the loss that the Government bore on every thousand lbs. of grass that they imported into the Broach District was about Rs. 12 per thousand lbs. The Committee feel that this source of supplementing the actual grass supply available in a year of scarcity of fodder should be fully investigated by the Government without any delay so that in any future year of scarcity the machinery necessary to grow the largest quantity of green fodder on such spots can be put into motion at the earliest moment and with the best possible results.

Another important factor that engaged the attention of the Committee was the question of looking after the cattle of rabaries of Gujerat and Kathiawad. The rabaries in these parts have the reputation of being in possession of cattle of the best breed and it was reported that it would be a great calamity if they were not given any relief. It was found to be very difficult to get into touch with rabaries of the right sort everywhere and the Committee decided to go by the experience of 1911-12 and to give help in the first instance to organisations which could be relied upon to distribute relief to really needy rabaries. Mr. Mangaldas G. Parekh of Ahmedabad applied to this Committee for some help towards the cattle kitchen that he was conducting in Ahmedabad at his own expense. The Com-mittee was informed that useful cattle belonging mostly to rabaries were being fed at Mr. Mangaldas's cattle kitchen and as his greatest difficulty was the procuring of grass, the Committee agreed to supply him with grass and to give him a reduction of Rs 5 per Committee agreed to supply him with grass and to give him a reduction of Rs. 5 per 1,000 lbs. on the cost price. According to this arrangement 15,35,626 lbs. of grass were supplied to Mr. Mangaldas and the loss borne by the Committee on it amounts to Rs. 7,678-11-0. The next important work that was not only helped but actually initiated at the instance of this Committee was the starting of grass depots at Botad, Ningala and Vinchhia by Mr. Revashanker Jagjivan of Bombay for the cattle of rabaries in the surround-ing districts this part of Kathiawad being reported to be the stronghold of rabaries geneing districts, this part of Kathiawad being reported to be the stronghold of rabaries gene-rally. Mr. Revashanker who had taken great pains in the fodder scarcity of 1911-12 and 1915-16 to organise relief for rabaries' cattle in Kathiawad came forward this year also in spite of his indifferent health, with the assistance of Mr. Purshotam Mawji Vakil of Rajkot and Mr. Bechardas Kalidas of of Botad to open grass depots in the centres named above. The Committee placed at Mr, Revashanker's disposal a sum of Rs. 25,000 at the start and supplied him with 30,78,060 lbs. of grass. Mr. Revashanker collected Rs. 19,200-8-0 more from his friends and charitable institutions. Appendix (I)\* gives an extract in English from the report of the operations conducted by him.

Owing to great difficulty in making grass available to people who were prepared to pay for it at cost price and at small reductions, the Committee were not advised by any of the District Committees to start cattle camps or cattle kitchens in any part of the affected areas. Supply of folder at cost price or at cheaper rates was, therefore, the only channel of help undertaken in the direction of cattle relief, besides helping experiments of cactus feeding.

#### Cotton Seed-husks.

Ten lakhs, thirty-seven thousand and forty-six pounds of this was supplied to various parts of the affected areas as per Appendix (J). All this was bought from the Indian Cotton Oil Mill of Navsari and more of this was not despatched because more was not available, the Mill not being able to get sufficient cotton seed to cope with the demand of husks, owing to restrictions on booking of cotton seed off and on from the Berars to Navsari. The Committee desire to express their appreciation of the manner in which the Hon'ble Mr. G. K. Parekh, connected with the firm of the Agents of the Oil Mill, did his best to meet the requirements of the Committee as far as practicable.

#### Human Relief.

This can be divided as under :---

(1) Cheap Grain Shops, ....

Clothing,

(3) Doles, and

(4) Relief to families too respectable to beg or to accept help publicly.

The most important of the Committee's activities under the heading of Human Relief is the The most important of the Committee's activities under the heading of Human Relief is the opening and running of cheap grain shops, particularly of cheap rice shops. On the starting of this Fund several applications that came in asked for grants to enable the appli-cants to sell grain at a cheaper rate than ordinarily prevailing at each place. It appeared to the Committee impossible to be able to give even slight relief to these applicants with the funds then at their disposal. On enquiry made through the various District Committees of the rates at which grain was being sold in their districts and of the concession that they proposed to give with the grants they asked for, it appeared that at most of the places grain was selling dearer than the controlled rates and at some places this higher price was due to want of regular supply of the required quantity of grain per week or per month. The Com-mittee, thereupon, decided to move grain to the affected areas direct from the market mittee, thereupon, decided to move grain to the affected areas direct from the market centres without the intervention of the usual middle men. On going into figures, it appear-ed that, if this was done, grain could be sold at most of the places from which applications were received for grants to run cheap grain shops, at rates lower than the rates at which the applicants wished to have the grain sold. The Director of Civil Supplies, Bombay, was approached with these facts, and he readily offered to help the Committee as far as possible under the difficult circumstances prevailing at the time, and the first consignments of rice thus despatched caused great joy at the centres to which these consignments were despatched. Practically everywhere all grain despatched by this Committee was sold at actual cost price

plus out-of-pocket expenses, and the Committee bore no loss on these operations. An application was made to the Director of Civil.Supplies to allow the Committee to import rice direct from Burma and this was granted with an allotment of 10,000 tons per month with a special privilege to have this Committee's consignments booked at the earliest opportunity available. Appendix (K) gives the total quantity of rice, bajri, and wheat thus handled by the Committee and Appendix (L) gives the rates of rice prevailing at some selected places before this Committee's operations in rice commenced there as compared with the rates ruling there subsequently. It is necessary to mention here the great assistance given to this Committee in their rice operations by Mr. Kanji Dwarkadas Mattani of Bombay, by Messrs. Tata Sons and Company and Messrs. Steele Brothers, who helped the Honorary General Secretary with their valuable experience and guidance. Mr. B.\*F Madon, and Mr. A. B. Mehta, Messrs. Tata Sons' Agent in Rangoon, were particularly keen in doing their level best on behalf of their firm to assist the rice operations of this Fund.

The question of reduction in the amount of sea-freight charged for rice from Burma to Bombay was considered by the Committee very early and applications were made to the authorities concerned to have this charge reduced. The freight which was Rs. 55 per ton earlier in the year was put down to Rs. 24 per ton (including the rebate of Rs. 3) but the lowering of the rate by instalments was in the opinion of the Committee a tardy recognition of the necessity of Burma rice to the Bombay Presidency as an article of food very badly needed-during this year.

In June when there was a heavy congestion in the Bomhay Docks of rice imports from Rangoon, the Director of Civil Supplies enquired whether the Famine Fund would help him by taking up and stacking as much of the rice lying in the Docks as possible. The Committee applied for, and got necessary stacking place at one of the commodious grain sheds in the grain depot of the Bombay Port Trust and in all 03,320 bags of rice were removed from the Docks and paid for and stacked in grain depot "A" shed. The financing of this quantity which necessitated locking up of more than eleven lakhs of Rupees was possible owing to Messrs. Narandas Rajaram and Company advancing about seven lakhs of Rupees to the Fund free of interest. The rice was fully insured against fire, and considerable credit is due to Mr. Purshotam Jivan, Mukkadam to this Fund, for the despatch with which he removed the bags from the Docks and stacked them in the grain shed, suitably protected against damage by rain. This large stock at the disposal of the Committee very considerably assisted the Committee in meeting with demands for rice from all sides from May onwards. The Traffic Superintendents of the B. B. and C. I. and G. I. P. Railways supplied waggons for the removal of rice from the grain shed to the affected areas as required and the Committee feel that without the assistance of the Port Trust and Railway authorities this work of stacking and removal of rice would have been very difficult.

#### Organisation of Cheap Grain Shops in the Districts.

As the rice supplied by this Committee was made available, when work was commenced at prices cheaper than those prevailing in the districts to the extent of three to four rupees a bag, special precautions had to be taken to ensure that the rice reached actual consumers in the districts at as near cost price as possible, and preference in the supply of rice was given to Municipalities and Local Boards running cheap grain shops. Wherever such recognised bodies were not available, District Committees and Taluka Committees were supplied with rice. For places where there were no District Committees or Taluka Committees, rice was supplied on the recommendation of the the Local Government Officer to Committees consisting of leading non-official persons on an agreement that the Local Committee would bear all expenses in connection with the shop and staff required to sell the rice, and would even finance the rice free of interest. Wherever the local men thus selected were not known to the Honorary General Secretary or to some Members of the Committee, a deposit of from Rs. 1,000 to 5,000 was taken in token of their *bona fides*, from the persons asking for rice from this Fund. The Committee are, on the whole, satisfied that their rice has reached the consumer with the minimum of charges, e.g., Railway Freight, cartage and loss in transit. In one case where at the commencement of operations it was discovered that a person was trying to sell rice at higher prices to merchants for export elsewhere, all the balance of rice bags in the hands of that person was taken charge of by a representative of this Fund and a substantial amount was levied on that person as a refund of the approximate profits made as a result of the breach of faith. .

The relief afforded in places where this Committee's rice was sold was immense. The Committee did not, and could not, supply the whole of the local demand at the lower price, but their operations did compel local grain merchants to sell their own stocks at considerably lower rates than they used to charge before rice was placed on the market from this Fund. Appendix (M) gives details regarding the rice purchases and the places where rice, bajri and wheat were sold and the channels through which it was sold. Appendix (L) gives details showing the differences between the selling prices of this Committee's rice and of rice held by dealers in the affected parts. In some cases the difference went as high as Rs. 4 to 6 a bag. The lowering of the prices of rice wherever this Committee could put some on the market was general, and it has been mentioned to the Committee that the 4,55,000 bags of rice handled by this Committee meant a saving of anything over Rs. 25 lakhs at least all over the various parts of the Presidency where this Committee's rice was sold. The Committee have on record letters from Government Officers, and private individuals of standing, in the affected areas assuring the Committee that their rice operations have saved the situation in most of the places and that at some places food-riots were actually said to have been nipped in the bud owing to timely supply of rice from this Committee.

This part of the Report would be incomplete without a reference to the private individuals who in some of the affected areas devoted their time and whole-hearted energy in procuring rice from the Committee, financing it themselves and organising the sale of it to large numbers of the poorest in each place for a period of nearly six months. Much of the good by this Committee's supply of rice may be said to be due to the co-operation of these gentlemen.

The following are the names of places where large quantities of rice were made available particularly owing to the keenness of the organisers of the local shops and owing to their earnestness in carrying on the work of such relief :--

•• •• •• •• •• •• •• •• •• •• •• •• ••	<b>h</b>	
	Bags.	
Cambay: Mr. Keshavlal Lallubhai	12',394	۹.
Ahmedabad : Mr. Mangaldas Girdhardas Parekh	. 29,388	
	. 4,350	
Nandurbar local: Mr. Bhailal Purshotam	2,750	
Sedbal (Belgaum District) : Mr. Morarji Rupji .	1,950	
(Dharwar District), Alnavar: Revd. Cotta	1,250	ı
Rajpipla State: Mr. Maganlal T. Vyas	. 7,325	•
Sinnar: Mr. K. G. Kale	13,297	
Khandala, Katkari Settlement: Kune per Brothe	T	,
Zimmer	2,010	
Lonavla: Dr. J. C. Mehta	1,250	1
The Poona District: Mr. Krishnadas Goverdhanda	<b>S</b> -	• .
Madivala	24,104	
Various parts of the Baroda State	. 28,б15	
Borsad : Mr. Jethalal Premanand	. 27,488	
Surat and surrounding places : Seth Motiram Raghavj	i. 16,765	
Bulsar : · Khan Saheb Cowasji Dhanbhura, Mr. Bhagvan	-	
das Vrijbukhandas, and Mr. Maganlal Raychand	41,167	
Chikhli: Seth Ghelabhai Premananddas	12,026	
Umbergaon and Sanjan; Mr. Vandravandas Gandabha	i. 7,800	
Borivli: Mr. Mulji Karsondas	9,100	
Amalsad : Mr. Lallubhai Pragji	25,095	•
	2	

These gentlemen belong to the mercantile community and a good deal of economy in running the shops and the businesslike methods in which these shops were run are due to the keen interest that they took in the organisation and conduct of their respective shops. It has not been the experience of this Committee that gentlemen of the standing of those named above take any prominent part in famine relief operations as a rule. The necessity of charitable famine relief operations being left in non-official hands is easily proved if the same can attract towards co-operation and active work, gentlemen of the class named above.

Such whole-hearted co-operation could not but encourage the Committee to continue their operations with the utmost zeal, and the Committee wish to record here their cordial appreciation of the assistance thus given to them in this part of the work by persons who usually have the reputation of leaving such public spirited work severely alone.

In this connection it is the duty of this Committee to note with satisfaction the organisation that was started by Mr. S. M. Bharucha, Collector of the Kolaba District, for distribution of rice in his district. The Kolaba District is a rice-producing district in normal times and the condition of the people there is more than difficult owing to that part of the Presidency not being accessible by Railway and being closed to marine transport during monsoon months. In spite of the organisation being under the direct supervision of the Collector, the Committee were informed that 'rice was available at one uniform rate all through the district, and they have no hesitation in concluding that but for Mr. Bharucha's very great personal interest in looking after stocks of rice being made available to the people, the district would have suffered very heavily by very extraordinary high prices.

A reference should also be made to the extremely useful and inspiring self-sacrifice of student volunteers at the Committee's shop at Bulsar. About twenty college and high school students residing in Bulsar offered during their May vacation to assist in conducting this Committee's cheap grain shops there. All these volunteers toiled incessantly during the whole of their vacation period at the shop at Bulsar counting small change or issuing receipts or otherwise controlling, and keeping in order the big crowd of two to four thousand people that gathered together daily there, for making purchases of rice. To the Ahmedabad District Famine Refief Committee and Seth Mangaldas Girdhardas of Ahmedabad, who conducted cheap grain shops in the Ahmedabad District practically independent of this Committee, the sole source of procuring rice was this Fund. 29,388 bags of rice to Sheth Mangaldas and 16,702 to the Ahmedabad Committee have been supplied and both of these have expressed their great indebtedness to this Committee for supply of rice which enabled them to carry on their operations on a considerable scale and to the great relief of the people in that District.

The Municipalities of Ankleshwar, Jambusar and Ranebennur and the Local Board of the Broach District got their rice from this Fund also and these bodies inform the Committee that their cheap grain shop operations were mainly dependent on the supply of rice from this Fund.

Clothing.—Of the various needs of the poor people during the period of famine, none was greater than that of clothing. The continually rising prices of clothing generally for a period of about eighteen months before the advent of famine had already made the question of clothing a very sore one to the poor classes. It is therefore but natural that during the period of famine clothing should be a real want to all the poor and lower middle classes in the affected areas. Very touching appeals also came from Missionaries and others, working on Famine Relief Works. From some of the Relief Works in the Ahmednagar District and from villages in other parts of the affected areas came very moving descriptions of how women were prevented from going out to work owing to the bare necessities of saries, being above their means. It appeared to the Committee that the supply of clothing should be undertaken on a large scale from Bombay.

The Bhattia Volunteer Corps in Bombay had organised before this Fund came into existence collections of funds and supply of clothing to the affected areas. They offered to co-operate with this Fund in distribution of this form of relief, and it was arranged that that body and this Committee should work in close touch with each other." Rupees ten thousand were given as a donation to the Committee of the Bhattia Volunteer Corps to enable them to carry on their operations in the month of February. To ensure the utmost economy in the cost of supply of clothing the Committee applied to the Railways concerned for free carriage of clothing parcels that might be sent by or through this Fund to the affected areas. The B. B. and C. I. and the G. I. P. Railways gave the concession readily and all parcels of clothing were thus carried to the affected areas free of cost. The Committee approached the Chairman of the Bombay Millowners' Association with a request that each Member of that Association might be requested to give a donation of two bales of cloth or yarn to this Fund free of cost. This request was made on the 28th February 1919 and the Managing Com-mittee of the Bombay Millowners' Association complied with the request of this Committee very readily, 137 bales of cloth and yarn were thus made available free to this Committee as per Appendix (N). All these were despatched by June and the Committee had to approach the Millowners' Association again in the month of July with a request that the donation so kindly given earlier in the year might be repeated. The Committee readily recommended this to their Members and 62 additional bales were again placed at the disposal of this Committee by the generous Mill Agents of Bombay. The quality of cloth or yarn given in each case was suitable for the purpose the Committee had in view, and the most sincere expression of gratitude is due to the donors of these bales for the ready and willing manner in which they responded to the Committee's request. Mr. Dhirajlal C. Modi, an assistant in the Firm of Messrs. Narandas Rajaram and Company, attended to the collection of bales of yarn and cloth from Bombay Mills and to the despatch of the same to the affected areas, and showed great earnestness and zeal in the discharge of the work he had undertaken as a labour of love. Appendix (O) shows the amount of clothing that had to be bought from the bazaar owing to the special qualities of saries, etc., required in some of the affected areas not being available from Bombay Mill Agents.

Doles.—The question of doles was one that required the Committee's attention to a certain extent. The most difficult question, however, was the problem of helping the middle class that was too respectable to beg and yet needed considerable help owing to high prices and famine conditions prevailing generally. Any assistance to be given to this class had to be given in a comparatively confidential manner. The Committee could undertake this, therefore, only in such places where they had local men that could be absolutely relied upon to distribute confidentially help of this nature. Every effort was made to make relief available where applications came from such quarters and although it has not been possible to distribute much relief in this direction the amount that was thus allotted has been reported to the Committee to have been well-spent.

The most notable work done in this connection was by the Bombay Women's Council under the Chairmanship of Her Excellency the Hon'ble Lady Lloyd. Mrs. J. B. Petit started a special Committee under this Council for the purposes of human relief in general and relief to women and children in particular in the affected parts.

The most welcome feature about this work is the part played by Hindu ladies, both Guzerati and Deccani, who went to the affected parts of Kathiawar and Ahmednagar. They travelled from village to village in the burning heat of April and May, and spent a large sum in giving relief after making personal enquiries on the spot. The work done by these deputations has been praised all round by officials as well as non-officials in the Districts concerned. The Honorary General Secretary of this Fund and Mr. N. M. Joshi were appointed to the

Famine Relief Committee of the Bombay Women's Council in order to see that no overlapping between the operations of this Committee and the Committee of the Women's Council took place. Similarly Lady Tata, Mrs. Petit and Mrs. Talyarkhan were requested to act as Members of the Executive Committee of this Fund to the same end. Both the representatives of this Committee were greatly impressed by the keenness and great pains taken by Mrs. J. B. Petit, the Honorary Secretary, and Mrs. F. S. Talyarkhan, the Honorary Treasurer of the Women's Council Famine Fund. As a separate report of the operations of that Committee is to be issued by the Women's Council, it is not deemed necessary to give further details regarding the valuable work done by it. But it may be remarked that had this work not been undertaken by the Women's Council so much more burden would have come on this Fund. As the Executive Committee of the Presidency Relief Fund, this Committee wish to record their great appreciation of the extremely self-sacrificing efforts of Mrs. J. B. Petit in the discharge of her task as the Honorary Secretary of the Women's Council Famine Relief Fund.

The question of supplementing by doles, etc., the wages earned by people on relief works was very thoroughly attended to. In the Ahmednagar District, most of the money required was paid by the Committee of the Women's Council. In the Panch Mahals Mr. Amritlal V. Thakker of the Servants of India Society organised during the months of April and May a system of volunteers from Colleges working on relief works and watching the conditions of the people there and giving them such help as was considered necessary. Mr. Motibhai Amin of Baroda kindly arranged for a number of volunteers (see Appendix P for their names) to assist in the work and these young men from Colleges are reported to the Committee to have rendered very useful service at great sacrifice of their time and comfort.

Wells.—Mr. A. V. Thakker asked for Rs. 300 for a pucca well at Heranj in the Kaira District and for Rs. 300 for a pucca well at Valukad in Kathiawar. Besides these Rs. 1,500 more were spent in Kathiawar through the Special Famine Officer, Kathiawad, as stated in the list of grants made for the Kathiawar District. All the money was spent out of the special grants received for wells from "In memory of Bai Jadav Widow of Gokuldas Uttamram" and "Mr. Vallabhdas Ranchoddas." The most important item however was voted to the Broach District Committee for the purpose of getting havadas or cattle troughs filled in the famine-stricken parts of that district. Rs. 10,000 was urgently required and Mr. M. S. Advani, the Chairman of the Broach District Committee, impressed upon this Committee the great necessity of making this sum available. It was pointed out that owing to scarcity of grass it was not possible for the usual kosias to work, as the question of up-keep of bullocks to draw the water was a sore problem. It was represented that unless substantial assistance was made available to the Broach District Committee in this direction the cattle in the villages concerned would suffer heavily. The Commissioner, N. D., was addressed by this Committee, but he expressed his inability to extend Government help in this direction as Government grants were being spent in measures for increasing or improving the existing water supply and the Commissioner had steadily refused to allow it to be diverted for the mere task of distributing an existing supply. On this reply being received, the Cotton Muccadums' Association of Bombay were approached and the Manag-ing Committee of that Association readily put Rs. 10,000 at the disposal of this Committee. The whole of this amount has been spent in the Broach District through the Local Boards concerned and from the reports received, it appears that the help was timely and of great value.

Finances.—The finances of the Fund were greatly strained all through the period of the Fund's operations owing to the total turnover of the Fund having exceeded a crore of rupees in all. Out of the total collections of Rs. 11,47,831-7-11 up-to-date, Rs. 3,395-0-2 were received after 1st September 1919. The total grants as per Appendix Q voted out by this Committee are Rs. 11,33,126-14-11 out of which Rs. 43,895-8-7 were returned as unexpended balances after 1st October 1919.

The approximate amount of surplus on the hands of the Committee on the 31st December 1919 is estimated at Rs. 2,75,000 as under :-

Rs. 3,395-0-2 amounts received after 1st September 1919.

Rs. 43,895-8-7 refunded from grants voted after the above date.

Rs. 1,29,957-8-9 being the amount of claims, drawbacks and refunds received till 1st December 1919.

Besides these more than Rs. 1,00,000 represents the amount of savings made on the rice operations of the Fund (total 554,000 bags) owing to smaller actual charges in Bombay, and less wastage incurred in transit. The total saving of Rs. 2,75,000 named above is expected to be augmented by the amount of Railway Freight concession that still remains to be recovered from the various Railways under orders of the Government of India. The cost of printing and distribution of this Report and the cost of maintaining the staff until the operations are finally closed will have to be deducted from the surplus in hand. The disposal of the balance in hand will be done according to the decision of the Committee hereafter and this will be duly communicated to the public by a Press Note. Appendix R.\* The

• Appendix R, shows the final Balance Sheet of the Fund as audited up to 31st December 1919. c Rev 1079-4

The Committee wish to acknowledge their thanks to all who have helped their operations in the various directions in which the help of the public both in affected districts as far as distribution is concerned and in Bombay as far as collection of money and purchase of grass and food-stuffs are concerned Where so many have helped so whole-heartedly it may be invidious to name even a few. They would therefore content themselves with expressing their sincere appreciation of the efforts of all those who helped them so freely and so willingly.

The Committee would however like to mention the following gentlemen without whose help the work of the Committee would have suffered very materially. Mr. I. W. Stokes, Deputy Traffic Manager (Operative) of the Great Indian Peninsula Railway, rendered most valuable assistance to the General Secretary in the movement of rice from Bombay and of grass from various stations on the Great Indian Peninsula Railway. Mr. E. T. Robinson and Mr. G. D. Moore of the Bombay, Baroda and Central India Railway also rendered very valuable assistance in moving rice from Bombay to stations on the Bombay, Baroda and Central India Railway to the affected parts on the same line.

It is hardly necessary to add that without the cordial co-operation of these Officers the movement of rice to the affected areas would have suffered in a manner which would have greatly added to the distress already prevalent in those parts.

Mr. J. V. Varde, B.A., volunteered to work in the Office of the Honorary Secretary for a period of over seven months, absolutely free of charge and the quality of the assistance that he has been able to render in the office work of the Honorary Secretary has been of the highest order. He has absolutely refused to receive any remuneration for his labour of love and the Executive Committee passed a cordial resolution of their appreciation of Mr. Varde's public spirited work at the time of his retirement from such work in October last.

#### R. AITKEN,

BOMBAY, 27th January 1920.

Chairman of a Meeting of the Executive Committee held on 27th January 1920.

PURSHOTAMDAS THAKURDAS, Honorary General Secretary and Treasurer,

J. K. Mehta, V. L. Mehta,

Honorary Secretaries.

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#### APPENDIX 3.

#### (Referred to in paragraph 17 of the Resolution.)

### Statement showing the numbers of persons relieved in the affected districts.

						1918	-19.	•		
	Mon	ith.				Gratuitousl	y relieved.			
				Relief worker <b>s</b> .	Dependants,	Destitutes.	Village servants,	Total daily average.	Total units.	
	Ahmed	aba <b>d</b> .	-				,			
November	1918		•••	• • • • • •		·	542	542	16,270	
December	μ	••••		•••••			546	546	16,933	
January _	1919	•••	•••		-	* 140	583	723	22,320	
February	n	•••	• •••			. 822	594	1,416	41,092	
March	11	···· '		44		2,390	615	2,949	83,228	
April				213	,	4,371	659	5,243	153,096	
May	13	<sup>1</sup>	•••	948		5,297	705	6,950	170,188	
June	"	•••		1,629		5,064	. 750	7,443	218,710	
July	11	•		2,409	·····	5,136	730	8,275	221,042	
August	ы			1,199		2,265	439	3,903	111,336	
September	11	· ••:	•••	•		<b>\$</b> ***11	18	18	540	
	То	- tal aver	ago		·	· · · · ·	+++++			
		la Distr	-		366	•			42,050	
January February	1919	•••	•••	1,120	2,965	15 403		1,501 8,120		
March	**	•••	•••	4,752	. 7,310	·	204	21.456	227,352	
	11		•••	17,035	14,729	2,332 6,581	-	38,890	750,912 1,088,939	
April May	n.			16 601	15,520	5,054	545	37,610	1,317,369	
•	"	1.44	•••	· 7,225	11,585	5,034 4,745	735 708	24,263	679,370	
June	'n	•••	•••		4,893	4,743 8,058		16,465	461,020	
July August	р.: п	•••	18) 	2,781 61	1,855	6,030 6,310	733 620	8 846	309,57	
•		12.4.1	•				•			
November		istric <b>t.</b>							6	
		•••			-	227	112 308	339 2,049	6,533	
December	»	ч <u>і</u>	477		•••••	1,741		4,659	47.653	
_	1919	•••	***		•••••	3.505	1,154	1	311,953	
February	11	•••		2		6,311 8 ccr	1,588	7,901	195,351	
March	0		•••	431		8,555	1,784	10,770	320,020	
April Man	. 11	•••	•••	· 1,402	<b>5.0.00</b>	9,665	T,904	12,971	289,189	
May	н 7	• • • •	•••	2,129	*****	11,316	1,814	15,259	483,825	
June	87	***	۰. <b></b>	1,055		10,945	1,912	13,912	328,223	
July .	11	•••	• • •	_ 207		7,262	2,821	9,690	223,996	

	. A	PPENDIX	3-contd.		, 1		
· · ·		· · · · ·	191	8-19.			
- Month.	Relief		Gratuitous	ly relieved.			
	workers.	Dependants.	· Destitutes.	Village servants.	Total daily average.	Total units.	
Broach District.						· · ·	
January 1919	-	<b>.</b>		775	775	24,025	
February	392		986	776	2,154	36,918	
March "	860		1,828	781	, 3,469	119,388	
April	1,540		3,074	1,046	5,660	160,261	
Мау "	1,672		4,086	1,041	6,799	235,199	
June "	784		5,452	1,036	7,272	211,648	
Jul <b>y</b> "	160		- 5,475	1,033	6,668	191,484	
August "			3,750	1,036	. 4.786	143,658	
		-		-		-	
Ahmednagar.					•		
November 1918		·					
December "				1,851	1,851	44,803	
January 1919	·		3,304	2,509	5,813	177,516	
February			5,350	2,666	8,016	223,554	
March			8,087	3,052	11,139	340,323	
April ,,		·	10,595	3,055	13,650	411,674	
May		•	12,616	3,098	15,714	435,918	
June			13,223	. 3,098	16,321	486,957	
า้าว้าย่าง เป็นไป			9,106	3,175	12,281	356,921	
August ,,			6,873	3,158			
September "			4,250	2,523	10,031 6,773	313,359	
October "			1,331	696		209,984	
			*0.0*		2,027	62,551	
Total average	23,584*	11,095*	6,794	2,625	9,419	3,063,560	
East Khandesh.				-	-		
February 1919			10	188	-	т. 	
March			_ 49 264	188	237	6,636	
April • "			- 412		452	14,012	
May "	•	•		647	1,059	31,771	
June "	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		525	733	1,258	39,009	
Tula			588 588	737	1,325	39,750	
August			592	799	1,391	43,121	
September "			437	731	1,168	36,208	
			7	747	754	22,620	
Total average			359	596	955	233,127	

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APPENDIX 3-contd.

··· • Represent total average daily number on several relief works opened from time to time.

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APPENDIX 3-contd.

			1918-	19.		
Month.			Gratuitous	ly celieved.		
	Relief workers.	Dependants.	Destitutes.	Village servants.	Total daily average.	Total unit
West Khandesh.	•					
December 1918				989	989	30,65
January 1919	*****		95	1,832	1,927	59,73;
February "	*****		380	1,690	2,070	\$7,56
Narch "	•••.,.		2,437	1,865	4,302	133,36
April	*** * * *		2,900	1,865	4,765	142,95
Мау н			4,019	1,865	5,884	182,40
June "	*****4 .	******	4,223	1,865	б,088	182,64
July "	******		4,093	1,895	5,988	185,62
Angust "		••••	2,219	1,895	4,114	127,53
September "	110505	*	******	1,895	1,895	50,85
Total average	*****		2,030	I,765	3,802	1,159,32
		·				
Nasik. December 1918	· .			•		
Toonant Tota		••••••		2,797	2,797	86,70
	*****			3,149	3,149	97, <b>6</b> 1
Manah	******	,	*****	3,149	3,149	88,17
A1			***	3,149	3,149	97,61
Man	· · · · · · · ·	******	*** • • •	3,245	3,245	97,35
June "			•••••	3,245 3,245	3,245	100,59
July "	*****			3,243 3,249	3,245	97.35
August "		· ·	424 200		3,245	100,59
September "	******	••••••••••••••••••••••••••••••••••••••	*****	44.0014		
	· .				,	
Total average	*		*****	3,153	3,153	766,00
Poona.		1			·	
December 1018						
	\$ <b>\$</b> \$ ***		•••••	1,399	r,399	· 43.36
Pat	E 944	1,365	·····	1,703	1,703	52,79
March	5,244 14,339	5.736	1,400	1,744 1,897	9,753	194,93
April "	12,952	3,508	3,518 6,838	2,136	. 25,490	734,64 677,61
May "	13,169	3,736	10,350	2,130	25,434 29,696	1,015,49
June " …	10,246	2,713	10,350	2,496	29,090 26,077	730,27
July ,,	8,982	2,713	10,021 10,761	2,490 2,502	20,077	681,84
August	5,257	1,061	9,251	2,502	24,331 18,087	б11,79
September "	5:457 		9,251 8,411	2,582	18,087	307,82
Total average	7,019	2,020	6,115	. 2,142	17,296	5,050,57

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		A	PPENDIX	<u>3</u> —conta.			
-		•		1918-1	9.	_	, 
	Month.			Gratuitousl	y relieved.		}
		Relief workers,	Dependants.	Destitutes.	Village servants.	Total daily average.	Total units
	_		]		· ,		1
	Satara.				•		
January	1919	· · · · · · · · · · ·	*****	740	555	1,295	32,367
February	33 *** <u></u> ***	62348 <i>9</i>		2,050	680	2,740	76,694
March	p	1,251	396	2,582	1,334 _	<b>5</b> ,56 <b>3</b>	176,235
April	39 809 · 45	4,098	2,002	2,110	1,073	9,283	259,930
May	yy 440	3,577	t,892	2,588	1,236	9,293	325,280
June	97 5-5 Ave	`, <u>5</u> 01	_ 709	3103	1,315	6,634	176,918
laid	ур эхэ <del>х</del> а			3,003	1,343	4,346	143,403
	Total average	1,489	714	2,313	1,077	5,593	1,190,827
		-					
~	Sholapyr.				ľ		
March	1919			296	466	762	21,451
April	n			573	568	1,141	34,252
May	17			2,268	418	2,686	94,691
June	، ۲۰۰ ۲۰۰	·····		1,897	570	2,457	< <b>б9,</b> 078
July	» ·····	*****		°, 1,424	731	2,155	60,365
August	,, ,			1,139	615	. 1,754	60,108
September	",,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			857	545	1,402	45,935
	Total average			1,208	. 559	1,767	385,880

· · ·	Nome	م م <b>6</b> م ا	e month.			Gratuitou	sly relieved.	Total daily	
	- ame	s or th	e month.	<u>.</u>	:	Destitutes.	Village servants.	average,	Total units
<del></del>	Kati	liawar	Agency.						
October	1918								•
November	'n		• *•			345	2	74'7	2,242
December	n	••• 、			. :	1,579	8	541.2	16,776
January 1	1919	•••	•••		•	1,862	47	9223	28,591
February	n		·	J. ••		2,315	140	1,625.1	45,504
March	n	•••	•••	• , •	·[	4,970	259	3,402.1	105,466
April	n	•••			·	10,035	677	7,527 4	225,821
May	33	•••	•••	<b>.</b>	·	13,739	824	9,993.7	309,804
June	<b>37</b>	·••_`		••	·	15,920	862	13,121.7	393,651
July	n		, <b>119</b>	••	·	18,918	880	14,199.5	440,183
August	*	•••	***		·	11,358	461	8,100'2	251,107
September	n	•••			·	2,925	103	2,490 G	74,717
			-	Total "		83,972	4,262	61,998'5	1,893,862

· · · ·

				Daily average	numbers of		
Month.				Gratuitou	sly relieved.	Total,	
			Workers,	Workers, Dependants,		Village servants.	
Rewa Ka	stha Agency						
February			98				ψS
March		•••	ç 10 <u>9</u>		•••		icy
April			545		******		545
Мау			715		80		795
une			735	37	104		875
ыy			. 393	50	57		500
August					27		27

#### APPENDIX 3-concid.

#### APPENDIX 4.

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(Referred to in paragraph 17 of the Resolution.)

~	(A-On relie	f works in the	Ahmedabau	d District.) +
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				Wo	rkers.		1	De	pendants.	
M	onth.	-	Men.	Women.	Children.	Total.	Men.	Women.	Children,	Total
	1		2	3	4	5	6	7	8	9
March 1919			31	21	ІІ	63	÷			•••
April "			66	80	ςτ	<b>1</b> 65	•			÷
May "			<b>2</b> 65	380	160	806				•••
]ខមទ អ			599	744	3°3	1,646				•••
July "			723	1,090	359	2,172			···· )	
August "			417	674	141	1,132				
Panch Ma	hals Distr	ict.								
Januar <b>y</b> 19	119	]	772	735	259	1,766			3	:
February	.,	]	2,817	2,560	938	6,315			14	3
Maroh	н		6,810	6,059	2,267	15,136		`	I	
April			8,015	7,258	2,183	17,456	1			
May	в.	•••	7,016	6,737	1,905	15,658				•••
Juna	п	•••	1,628	2,917	701	5,246				
July	н		368	579	86	1,033				• • •
August	n		•••	•••						•••
Kair	a District.			· ·						
March 191			343	289	116	748				
April "			1,051	800	164	2,015				
Ma <b>y "</b>			1,205	932	146	2,283				•••
June "			393	299	ვნ	728				
July "			I	ĺ		I				

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# APPENDIX 4—contd.

Nen.         Women.         Children.         Total.         Men.         Women         Children.           t         a         3         4         5         0         7         8           Preack District.          425         400         133         4.088               March           475         400         133         4.088 <th></th> <th></th> <th></th> <th>-</th> <th>Wo</th> <th>rkers.</th> <th></th> <th></th> <th>De</th> <th>pendants.</th> <th></th>				-	Wo	rkers.			De	pendants.	
Brack District.         Itop         154         72         395              March         "          475         490         133         2.098		Month.		Men.	Women.	Children.	Total.	Men.	Women	Children,	т
February 1919        169       154       72       393            March         817       769       à32       1,868            May         758       703       a13       1,656            June		I.		ġ	3	4	5	6	7	8	
March        475       490       133       1.098            April        817       769       233       1,818            May        738       703       213       1,656            Jue                  Jue                  Jue </td <td></td> <td>Broach District.</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>  ·</td> <td></td> <td></td>		Broach District.					1		·		
April        Bit       Top       Bit       Image       Image </td <td>1</td> <td>ebruary 1919</td> <td></td> <td>169</td> <td>154</td> <td>72</td> <td>395</td> <td></td> <td></td> <td>•••</td> <td></td>	1	ebruary 1919		169	154	72	395			•••	
May        738       703       215       1.656            June        1.56       213       73       482            January       1.919        1.010       1.581       335       2.737       8       * 24.         January       1.919        1.010       1.581       335       2.737       8       * 24.         March         3.731       6.139       2.300       12.308       8       250       4.4941         April         5.502       8.633       2.744       8.059       4.441       503       8.439         June         4.383       7.444       8.1059       1.116       6.665       4.494         June         4.593       8.439       1.451       1.70       512       6.665         August         4.539       7.444       8.037       570       3.866       49       155       6.619         October         7.971       6.812       1.868       12.251	- 1	larch "	••••	475	490	i33	1,098	•••			
June     n     136     213     73     482     n     n     n       Ahmednagar District.     January     1919     1,010     1,381     336     2,727     8     244       January     1919     1,010     1,381     336     2,727     8     244       February     1     3.791     6,139     2,300     12,330     81     260       March     1      5.447     8,552     3.633     2,744     16,579     163       Jane       5.502     8,633     2,744     16,589     169     488       Jane       5.502     8,633     2,744     16,590     14,41     503       Jane       5.502     8,633     2,744     16,590     14,521     7,675       Jane       5.502     8,633     2,744     166     464     6,619       Jane       7.59     1,621     13,356     414     503     453       Jane       7.59     1,651     1,361     12,741     166     464       Jane       7.59     1,651     12,747	1	April •	•••	817	769	233	1,818	{ { }			
Ahmednager Dittrict.     Int     Int     Int     Int     Int     Int       January 1919      1,010     r.351     336     2,727     8     24,       February n      3,791     6,139     2,300     12,230     81     200       March n       5,447     8,552     3,050     17,059     176     541       April n       5,502     8,633     2,744     16,879     163     488       July n       4,381     7,842     4,395     14,611     170     512       August n       4,381     7,842     4,395     14,611     170     512       September n       7,89     1,476     477     2,742     166     464       Peona District.        7,99     1,759     3,175     990     5,924     33     97     3,753       March n       7,947     8,83     11,320     15     8,33     1,193       Peona District.         7,947     8,445     13     17     2,6       July n <td>1</td> <td>Iay "</td> <td>••••</td> <td>738</td> <td>703</td> <td>215</td> <td>. 1,656</td> <td></td> <td></td> <td>¦</td> <td></td>	1	Iay "	••••	738	703	215	. 1,656			¦	
January 19191,0101,2813364,7478 $^{2}$ 24February3.7916,1392,30012,230812604.941April5.4478,5523,65017,0591765414.941April7.03510,3933,83321,4601445038439Jana5,5028,6532,74416,8791634888439June4,3837,8428,39514,6211705127,445June6,7721,95113,7421664646,665Agust7,8753,865491536,619October7,891,4764778,7423812.838,153June7,891,4764778,74233292,536March7,795,905,92433902,536March7,798,83311,31917263,803June7,793,7735,905,92433973,753March7,7478,83311,31117263,603April1	•	une "	•••	196	213	73	482	470	···	•••	
January 19191,0101,2813364,7478 $^{2}$ 24February3.7916,1392,30012,230812604.941April5.4478,5523,65017,0591765414.941April7.03510,3933,83321,4601445038439Jana5,5028,6532,74416,8791634888439June4,3837,8428,39514,6211705127,445June6,7721,95113,7421664646,665Agust7,8753,865491536,619October7,891,4764778,7423812.838,153June7,891,4764778,74233292,536March7,795,905,92433902,536March7,798,83311,31917263,803June7,793,7735,905,92433973,753March7,7478,83311,31117263,603April1		Ahmednagar Distri	<i>_</i> +					ļ			
February        3.791       6,139       2,300       12,230       81       260       843         March         5.447       8,552       3,050       17,059       176       541       7,341         April         5,502       8,613       2,744       16,879       166       488       8,439         June         5,502       8,613       2,744       16,879       167       488       8,439         June         4,383       7,843       8,355       14,621       170       512       7,445         July         5,073       8,810       2,407       16,390       211       6,665         August         4,019       6,772       1,051       12,742       105       464       7,675         September         789       1,476       477       2,742       38       128       3,153         March          7897       2,476       14,459       83       370       3,536         March	· T			1.010	1.281	205					Ι.
March        5.447 $8.55a$ $3.05o$ $17.059$ $17.6$ $541$ $4.941$ April       n $7.035$ $10.303$ $3.8_3a$ $a1.a5o$ $14.4$ $503$ $8.439$ May $4.585$ $7.844$ $8.395$ $14.6a1$ $170$ $51a$ $7.445$ June $4.385$ $7.844$ $8.395$ $14.6a1$ $170$ $51a$ $7.445$ July $5.973$ $6.810$ $2.407$ $16.290$ $a11$ $6.665$ August $4.019$ $6.772$ $1.951$ $12.74a$ $106$ $6.655$ August $7.89$ $1.476$ $477$ $2.74a$ $38$ $128$ $a.153$ Poone District. $789$ $1.476$ $477$ $2.74a$ $33$ $30$ $9.5324$ $33$ $30$ $9.5363$ March $3.571$ $6.81a$ $12.868$ $12.251$ $17$ $a6$ $3.803$ June		• •			1		1	1	·	849	.
April       n       7.035       10,391       3,812       21,250       144       503       7,341         May       n       5,502       8,633       2,744       16,879       163       488       8,439         June       n        4,383       7,844       8,395       14,621       170       512       6,665         August        4,019       6,772       1,951       12,743       156       464       7,675         September        1,259       8,077       570       3,866       49       153       8,153         October         789       1,476       477       2,742       38       128       8,153         Peoma District.          7.977       2,476       144,59       23       27       3,753         March         3,571       6,812       1,868       12,231       17       26       3,803         April         3,322       6,175       1,883       81,390       15       93       2,794         June         9,997       6,514       1,		famb -			[	-	, ·	· ]		4,941	5
May        5.502       8.633       2.744       16.879       163       488       7.445         June        4.383       7.842       8.395       14.6at       170       512       6.665         August        4.019       6.772       1.951       13.743       166       464       7.673         September        1.259       8.037       570       3.866       49       153       8.153         October        789       1.476       477       2.742       38       128       1.193         Poma District.         789       1.476       477       2.742       33       30       2.536         March         789       1.476       4477       2.742       33       30       2.536         March        3.571       6.812       1.868       12.251       17       66       3.803         June        4.035       7.947       2.476       1.4539       23       27       3.753         June         9.997       6.514       1.830       11.241       17       2.6<	А									7,341	8
June        4.383       7,844       8,395       14,621       170       512       7,445         July        5,973       6,810       2,407       16,620       311       640       6,665         August        4,019       6,772       1,951       13,743       166       464       7,675         Septamber        7.89       1,476       477       2,742       38       128       8,153         October        789       1,476       477       2,742       38       128       8,153         Poena District.         789       1,476       477       2,742       38       128       1,193         Poena District.         789       1,476       14,659       83       33       30       2,536         March        3,537       6,812       1,868       12,251       17       26       3,803         June        3,332       6,175       1,883       11,390       15       8,33       2,375         June           3,373       8,323       11	N	lay n	]			•		-		8,439	.9
July        5.073 $6,810$ $2,407$ $16,390$ $3.11$ $640$ $6,665$ August $4.019$ $6,772$ $1,951$ $13,742$ $166$ $464$ $7,675$ September $1,259$ $2,037$ $570$ $3,866$ $49$ $153$ $a_{1133}$ Decks       District. $789$ $1.476$ $477$ $2,742$ $33$ $20$ $2,536$ March $739$ $3.175$ $990$ $5,924$ $33$ $20$ $2,536$ March $3.571$ $6,812$ $12,868$ $12,251$ $17$ $a66$ $3,803$ April $4.036$ $7.947$ $2.476$ $14.459$ $a3$ $a7$ $3.753$ June $3.332$ $6,175$ $8.83$ $11,341$ $17$ $2.66$ $3,406$ July $3.332$ $6,175$ $8.83$ $11,341$ $17$ $2.66$ $8,406$ July	J	ine "		4.383				i -	1 1	7,445	8
August       u       4.019 $6.772$ $1.951$ $12.743$ $166$ $454$ $7.675$ September       u       1.259 $2.037$ $570$ $3.866$ 49 $155$ $8.153$ October       u $789$ $1.476$ $477$ $2.742$ $38$ $128$ $2.153$ Pome District. $789$ $1.476$ $477$ $2.742$ $33$ $30$ $2.536$ March       u $3.571$ $6.812$ $1.868$ $12.251$ $17$ $e66$ $3.803$ April       u $3.332$ $6.175$ $18.83$ $81.390$ $15$ $8.33$ $2.794$ June       u $3.332$ $6.175$ $18.83$ $81.390$ $15$ $8.33$ $2.794$ July       u $3.332$ $6.175$ $18.83$ $81.390$ $15$ $8.33$ $2.794$ July       u $2.309$ $4.643$ $2.373$ $8.323$ $11$ $18$ $1.797$ August       u	J	dy "		5,073	-8,810	•		j ·		6,665	7
September "        1,259       9,037       570       3,866       49       155       6,019         October "        789       1,476       477       2,742       38       128       1,193         Poona District.         789       3,175       990       5.924       33       30       3,536         March "        3,571       6,812       1,868       12,331       17       a6       3,803         April "        4,035       7,947       2,476       14459       23       a7       3,753         May v        3,332       6,175       1,883       11,390       15        2,3794         June "        3,097       6,514       1,830       11,341       17        8,406         July "           13       35       4,901         August "         9.907       6,514       1,830       11,341       17           March 1919        6,636       5,429       1,9653       14,028       13       .85       4,921 <td>A</td> <td>ugust "</td> <td>••••</td> <td>4,019</td> <td>6,772</td> <td>· · · · ·</td> <td>•</td> <td>1</td> <td>· -</td> <td>7,675</td> <td>8,</td>	A	ugust "	••••	4,019	6,772	· · · · ·	•	1	· -	7,675	8,
October	Se	ptember "	•••	1,259	\$,037	1		49		0,019	б,
Poona District.         1,759         3,175         990         5,924         33         30         2,536           March         "         "         3,571         6,812         1,868         12,251         17         26         3,803           April         "         4,036         7,947         2,476         14,459         23         27         3,753           May         "         3,332         6,175         1,883         81,390         15         .83         2,794           June         "         2,309         4,643         1,373         8,325         11         18         1,797           July         "         2,309         4,643         1,373         8,325         11         18         1,797           August         "         -908         1,751         537         3,196         4         7         692           Satara District:         "         "         14,370         18,686         6,363         39,419         130         418         19,800           March 1919         "         5,789         6,801         2,005         14,595         7,5         807         6,977           June         "	0	tober "	•••	789	1,476	477_	2,742				2,
February 1919 $1,759$ $3,175$ $990$ $5,924$ $33$ $30$ $a,536$ March $3,571$ $6,812$ $1,868$ $12,251$ $17$ $a26$ $3,803$ April $4036$ $7,947$ $2,476$ $14459$ $a3$ $a7$ $3,753$ May $y$ $3,332$ $6,175$ $1,883$ $11,390$ $15$ $Junea,9976,5141,83011,34117July2,3094.6432.3738,32511181,797August2,3094.6432.3738,32511181.797August5981.7515373,10647692March 19196.6365.4291.965314,02813854.921May14.37018,6866,36339.41913041819,800June1.3321.6653883.38318511.815Rema Kantka AgencyMarch274107139520March24627$	-	Poor District					н р. н.		,	3,193	I,
March        3.571       6,812       1,868       12,251       17       26       3,803         April         4.036       7,947       2,476       14,459       23       27       3,753         May         3,332       6,173       1,883       11,390       15        2,33       2,794         June         2,309       6,514       1,830       11,341       17        2.6       3,405         July         2,309       4,643       2,373       8,325       11        1.8       1,797         August           537       3,196       4       7       692         Satara District: <td>F</td> <td></td> <td></td> <td>  </td> <td></td> <td>· · · ·</td> <td></td> <td></td> <td></td> <td></td> <td>•</td>	F					· · · ·					•
April        3.574       0,612       1,868       12,251       17       26       3,803         May        4.036       7,947       2,476       14,459       23       27       3,753         June        3.332       6,173       18,833       11,390       15        83       2,794         June        4.097       6,514       18,830       11,341       17       26       8,405         July        2,309       4.643       2,373       8,325       11       18       1,797         August           537       3,196       4       7       692         Satara District:         14,370       18,686       6,636       39,419       130       418       19,800         May         14,370       18,686       6,636       3,383       18       51       1,815         June         1,330       1,665       388       3,383       18       51       1,815         Rewa Kantka Agency.	•			•· · ·				.33	30	2,536	2,5
May       n       3,33       7,347       2,476       14,459       23       47       3,753         June       n       3,332       6,175       18,883       11,390       15       .93       2,794         June       n       2,309       6,514       18,830       11,341       17       26       8,406         July       n        2,309       4,643       2,373       8,325       11       .18       1,797         August	-		·					17	<b>26</b>	3,803	3,8
June       n        3.53-2       0,173       1,883       11,390       15		· · ·	-					<b>\$</b> 3	97	3,753	3,8
July       n       2,309       4.643       1.373       8,325       11       1.8       1.797         August       n       -908       1.751       537       3,196       4       7       692         Satara District:       n       -908       1.751       537       3,196       4       7       692         March 1919        6.636       5.429       1.963       14.028       13       85       4.921         May       n        14.370       18,686       6.363       39.419       130       418       19,800         June       n        5.789       6.801       2.005       14.595       75       907       6.977         June       n        1.330       1.665       388       3.383       18       51       1.815         Rewa Kantka Agency.			·	1		. I.	· .			·	2,8
August	Ju	y n .	· ]			1 A.	. 1		1		3,4
Satara District;       Satara District; <th< td=""><td>A</td><td>igust in</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>1</td><td></td><td>ار <b>د</b></td></th<>	A	igust in					1		1		ار <b>د</b>
Satara District.       March 1919        6,636       5.429       1.963       14.028       13       85       4.921         April        14,370       18,686       6,363       39.419       130       418       19,800         May        5.789       6.801       2.005       14.595       75       807       6.977         June        1.330       1.665       388       3.383       18       51       1.815         Rema Kantka Agency.                March        245       279       183       708            May        1.654       1.983       1.173       4.810           June        1.654       1.983       1.173       4.810           June        1.2058       2.341       1.378       5.777	-	, •			-,/31	537	3,190	. 4		693	2
April        14,370       18,686       6,363       39,419       130       418       19,800         May        5,789       6,801       2,005       14,595       75       207       6,977         June        1,330       1,665       388       3,383       18       51       1,815         Rewa Kantha Agency.                March         245       279       183       708           March        1,279       1,447       1,035       3,781           May        1,654       1,983       1,173       4,810           June         1,055       2,058       2,341       1,378       5,777					· ·	-	·*				
April       "       14,370       18,686       6,363       39,419       130       418       19,800         May       "       5,789       6,801       2,005       14,595       75       207       6,977         June       "       "       1,330       2,665       388       3,383       18       51       1,815         Rewa Kantka Agency.       "       274       107       139       520       "       "       "         March       "       246       279       183       708       "       "       "       "         May       "       "       1,654       1,983       1,173       4,810       " <t< td=""><td></td><td>•</td><td><b>.</b></td><td>6,636</td><td>5,429</td><td>1.061</td><td>14.028</td><td></td><td></td><td></td><td></td></t<>		•	<b>.</b>	6,636	5,429	1.061	14.028				
May       "       5.789       6.801       2.005       14.595       75       807       6.977         June       "       1.330       1.665       388       3.383       18       51       1.815         Rewa Kantka Agency.       "       274       107       139       520       "       "       "         March       "       246       279       183       708       "       "       "         March       "       1.279       1.447       1.055       3.781       "       "       "         May       "       1.654       1.983       1.173       4.810       "       "       "       86         June       "       2.058       2.341       1.378       5.777       "       "       86				14,370	1	1			1	· · (	5,9 20,3
June       """"""""""""""""""""""""""""""""""""			<b></b>	5,789	6,801	1	~			1	20,1
Rewa Kantka Agency.       274       107       139       520           Match        246       279       183       708           April        1,279       1,447       1,055       3,781           May        1,654       1,983       1,173       4,810           June        2,058       2,341       1,378       5,777	յս	në p		1,330	1,665					f	7,4 1,8
Kebu Kanta Agency.       274       107       139       520           March        245       279       183       708           April        1,279       1,447       1,055       3,781           May        1,654       1,983       1,173       4,810           June         2,058       2,341       1,378       5,777	•	Roma Vanilia					1			-,	,.
March      245     279     139     520         April      245     279     183     708         May      1,279     1,447     1,055     3,781         June       1,054     1,983     1,173     4,810			•		•		[				
April     "     "     240     279     183     708     "     "       May     "     "     1,279     1,447     1,055     3,781     "     "       June     "     "     2,058     2,341     1,378     5,777     "     "					-	139	520				•••
May ,, 1,654 1,983 1,173 4,810			•			183	708		•••		
June ,,	-						3,781				
2,341 <b>1</b> ,378 <b>5</b> ,777 86							4,810	••••		•••	•••
1999 N X68	In	· · · · · · · · · · · · · · · · · · ·	·				5,777			86 '	
····· 508 793 745 2,106 ···· 40				1	793		1	•	·	40	

				-					, 1 , 1	3.—On	gratui	ous r	elief.					• • •	•	•			• •	
		Novemb	ber 1918.			Decemb	er 1918.			Janua	ry 1919	•		Februa	cy 1919.			Marc	h 1919.			Apri	1 1919.	
District.	Men.	Women.	Children.	Total.	Men.	Women.	Children.	Total.	Men.	Women,	Children.	Total.	Men.	Women.	Children.	Total.	Men.	Women.	Children.	Total.	Men.	Women.	Children.	. Te
hmedabad								·					117	254	451	822	2:0	756	1,342	2.348	578	1.326	2,711	4
anch Mahals	•••	·				` <b></b>			6	45	, 260	311	105	366	1,940	2,411	1,050	2,148	5,716	11,914	2,661	3,374	16.688	22
aira			-		205	***	•••		3,475	9,661	16,560	29,696	5,016	14,092	26,812	45,920	7,310	19,939	\$5,684	63,933	9,096	23,442	44,765	77.
roach	63 <b>4</b>		, 'aus		***							۰ <b>۰۰</b>	150	475	639	1,264	240	708	1,154	2,102	386	1,035	2,137	3,
ast Khandesh 🛛 🕢 🚛	***		-								1.00		198	39	•••	237	209	139	104	452	691	202	159	1.
est Khandesh					. 989		`	989	1,866	55	22	1,943	1,804	261	165	2,231	2,239	1,050	1,013	4,302	2,338	1,310	1,117	4.
asik			-		2,797			2,797	3,149			3.149	3,149		•		3,149		-		3,245	•••	·	ļ.
hmednagar		í							3,670	2,506	1,660	7,836	3.912	2,514	1,807	8,233	3,078	3,793	2,443	11,314	5,784	4,801	3,591	14.
600	·				1,39 <b>9</b>	•••		I,399	1.703			1,703	2,504	, 878	408	3,790	2,960	1,858	1,193	6,011	4,437	4,017	2,994	11,
holapur	•••					<b>P+3</b>		y 🚥 🖓	•**								• 74	129	96	299	-224	, 201	160	l
atara	<b>•••</b>	· •••	"···			·	10	AFA '	2,217	4,790	1,987	8,994	3,907	9,057	5,543	18,506	3,337	8,349	3,329	15,015	3,517	8,591	2,991	15.
ijapur		~ ***	<b>—</b> .	} {	**							•••	1,026	· 1,158	1,223	3,407	960	1,409	1,673	4,043	1,893	1,726	2,293	5,
elgaum		1			•••			•••			•••	***	1,121	3.371	5,325	9,817	4,968	4,804	7,305	17,077	4,690	5,096	8,310	18,
athiawar Agency	62	131	154	347	252	421	524	1,197	138	360	495	993	228	611	940	1,779	401	991	1.876	3,268	956	2,050	5,874	1 <sup>8,1</sup>
eva Kantha Agency (Pandu Mewas).			m	)							•••	444	140	***	· •••			•••		•••		•••	, ••• ·	**

APPENDIX 4-concld. B.-On gratuitous relief.

• • •		May	<b>y 1</b> 919. 🔍			June	1919.	•		July	1919.			Augus	at 1919, ·	· ~ .		Septemi	ber 1919.			Octob	er 1919.	
'District.	Men.	Women,	Children.	Total.	Mea.	Women.	Children.	Total.	Men.	Women.	Children.	Total.	Mon.	Women,	Children,	Total.	Men.	Woman,	Children.	Total.	Men.	Women.	Children.	Total.
Abmedabad	637	1.896	2,743	5,276	685	1,644	2,789	5.118	639	1,415	2,830	4,884	212	636	1,484	2,332		·	***					
Panch Mahals	. 1,909	2,782	15,650	20,341	1.528	1,988	5.254	8,770	2.279	2,701	8.163	15,143	4,307	3,732	6.279	14,318			***		***			•••
Kaira ,	10,798	22,781	43,118	,75,697	10,237	19,689	\$8,086	68,012	6,359	9,796	19,405	35,560	835	, <b>9</b> 51	1,565	3,351		···· `	•••	•••		··· .		494
roach	433	1,169	3,017	4,619	521	1,426	3,864	5,811	478	1,312	3.729	5,519	14	•••	1 ····.		•••	, <b></b>	400 ·			•••		
Sast Khandesh 🛛 📖	<b>`.7</b> 79	272	198	1,249	926	424	231	1,58	913		. 1364	1,986	795	193	164	1,152	718	. 5	2	725				
West Khandesh,	2.450	1,736	1,698	5,884	2,637	1,245	1,706	6.086	2,663	1,590	1,735	5,988	2,395	. 843	876	4,114	*				-++			-
asik	3,253		. ***	3,253	-3,246	~	• 144	5.246	3,245		·	3,245	•••		' <b></b>		1	12	- 19	13			· •••	
hmednaga <b>r</b>	6,747	\$,797	4,039	16,583	<b>6.310</b>	5,417	4,016	15,743	5,005	4,365 ;	9.123	12,493	4,359	2,686	2,344	9,389	5,239	1,552	1,246	6,037	920	521	(09	1,856
	4,843	4,923	· 4,273	14,039	4.679	4,405	<b>8,</b> 864	12 948	4,638	4,365	3 767	12,770	4,53R	3,720	3,274	11,332	3,976	3,060	2,950	9,986				· •••
holapur	740	· 755	789	2,284	708	536	661	1,905	671	360	407	1,458	451	341	360	1,152	299	301	259	859				
iatara	4,481	10,928	5,540	20,949	- 4,585	11,198	<b>6,</b> 361	22,144	4,389	10.403	5,901	20,692	***	,		4-1	, ***		990					)   •••
lijspur	2,125	1.609	2,213	5.947	2,098	1,664	2,309	6,069	1,868	1,488	2,132	- 5,488	1,470	1,061	1,567	4,098	1,355	759	1,148.	5.262		I		
elgaum	4.956	\$,535	9.806	20,297	6,351	6,600	12,016	24,967	6,849	6,970	12,704	26,523	6,303	6,948	11,109	24,440	3,503	2.570	3,471	9,544	309	164	254	777
athiawar Agency	1,358	2,733	2,495	11,586	1, 598	3, 209	.9.501	14.308	1.780	4,008	11.254	17,052	922	1,837	6,106	8,865	353	697	1,385	2,435				
eva Kantha Agenoy (Pandu Mewas).	88	102	399	589	91	136	. 480	707	66	66	220	352	12	8	<b>.</b> 34	54	` <b></b>	•••• `						•**

#### APPENDIX 6.

(Referred to in paragraph 17 of the Resolution). Direct famine relief expenditure.

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	I Salaries and Establish- ment.	II Relief works in charge of civil officers.	III Relief works in charge of Public Works Officers.	IV Relief to people employed otherwise than on relief works.	V Gratuitous Relief,	VI Miscel- laneoùs.	Total.	I Salaries and Establish- ment,	II Relief works in charge of civil officers.	III Relief works in charge of Public Works Officers.	IV Relia to people employed otherwise than on relief works,	V Gratuitous Relief.	VI Miscel- laneous,	Total.
			(1918-	1919).						(1919-	1920).			
Ahmedabad Broach Kaira and Panch Mahals Surat Ahmednagar East Khandesh West Khandesh West Khandesh Vest Khandesh Satara Satara Shotapur Belgaum Dharwar Thar and Parkar Thar and Parkar Mahikantha (Sadra) Palanpur Bombay (P. A. Depart- ment.)	62  396 1,310 4.324 539 44 1,350 	Rs. 633 1(,529 8,376	Rs. 99,916 16,691 251,724 599 1,38,943 12,859	Rs. 5.974 4.692 3.732  30,667 672  9.927 1.809 2,804 3,870  	Rs. 8,253 6,983 67.737 11,608 71,348 1,826 42,317 31,176 28,582 18,889 4,150 13,826 23,914  15,145  500 	Rs. 2,35,627 53,082 1,83,208 31,196 6,250 66,867 18,420 22,636 1,02,753 21,885 10,322 7,892 13,475 20,495  1,31,070  1,500 8,97,071	Rs. 2,55,028 22,872 3,88,706 31,196 35,609 43,0,524 20,980 65,552 31,042 2,71,588 67,884 16,820 8,782 42,609 20,495  930 1,56,002  2,000 8,97,071	Rs. 12,457 8,641 48,351  2,524 39,992 9,58 4,586 1,236 12,537 9,247 2,139 1,031 9,604  19,709  697 9.525	Rs. 59,081 46,629 95,405 875  810  810  530	Rs. 713 2,66,146  655 8,05.594  706  4,48,337 1,08,219 	R s.  11,449 1,13,759  45,454 16,239 6,133 64,413  17,425 10,105 14,512 41,184 11,829 1,120  	Rs. 107,276 88,426 3,05,463  19,374 2,17,354 8,559 71,306 275 78,072 45,6,3 36,246 49,344 86,437  17,363 43 1,02,710 1,000 0,276 8,572	Rs. 1,87,264 38,276 1,69,691 42.703 114 98,084 14,387 17,182 35,252 2.70,334 35,647 1,016 33,710 28,144 1,242  1,05,718 4,059  2,91,948	Rs. 8,450 1.94.134 6,59.438 43.578 21.357 12,06,604 11,379 66,403 30,672 8,09,280 1,44,942 49,506 98,597 1,00,081 10.587 18,483 43 17,231 5,059 9,973 3,10,045
Total	55.078	26,468	5,20,732	70,143	3,46,254	17,01,271	27,13,946	1,83,225	2,03,456	16,29,000	3,53,672	- 12,52,809	1,85,717	38.07,942

N.B.-The figures shown under VI. Miscellaneous represent net expenditure after deducting receipts on account of the sale of grass.

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F. A. C. REBELLO. Deputy Accountant General

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APPENDIX 7. (Referred to in paragraph 17 of the Resolution).

Amended statement showing the indirect expenditure incurred on account of famine during the years 1918-19 and 1919-20 (up to 30th September 1919).

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| Heads of Account.      | Grain<br>Compen-<br>sation<br>allowance.   | Garanca  | ing<br>allow-<br>ance and   | allow-<br>ance in<br>connec-  | Imrove-<br>ment of<br>water-<br>supply.  | Tagai   | Irrecover-<br>able<br>tagai<br>loans<br>written<br>off.  
   
   | Loss in<br>Govern-<br>ment<br>rice<br>transac-<br>tion.   | Total.  | Grain<br>Compen-<br>sation<br>allowance.  | Salaries<br>and tem-<br>porary<br>establish-<br>ment.   
   
   | allow-<br>ance and   | ance in<br>connec-<br>tion with   | ment of<br>water-  
  | , Tagai<br>allowance,   | Irrecover-<br>able<br>tagai<br>Joans<br>written<br>off.  | Loss in<br>Govern-<br>ment<br>rice<br>transac-<br>tion.   | , Total.  | 84  
  |
|                        | 1  |  |   | (1918-  | 1919).   | ·   |  
   
   |   |   |   |   
   
   |  | (1919   | 1920).   
  |   |  |   |   |   
  |
| Land Revenue           | Rs.  | Rs.  | Rs.   | Rs.   | Rs.  | Rs.   | Rs.  
   
   | Rs.   | Rs.<br>91,720   | Rs.   | Rs.   
   
   | Rs.<br>25,231  | Rs.<br>38,345   | Rs.  
  | Rs.   | Rs.  | Rs,   | Rs-<br>1,36,849   | • •   
  |
| C-14                   | 1  |  | 1950  | 1   |  |   |  
   
   |   | 2,459   | 8,521   | 1   
   
   |  |   |  
  | ••••  | ·  | ·   | 8,521 /   |   
  |
| Stamps                 |  |  | i.  | 1   | K  |   |  
   
   | · •••   | 891   | 94  | ···· .  
   
   |  | ·   |  
  |   | ···· `   | •••   | 94  |   
  |
| Excise -               | 2,774  | •••  |   |   |  | 100 A   |  
   
   |   | 2,774   | Nil   | •••   
   
   | •••  |   |  
  |   | ·  | ·   | Nil   | 24  
  |
| Customs                | 1,576  |  | 145   | •••   | •••  |   |  
   
   | ·   | 1,576   | 472   |   
   
   |  |   |  
  |   |  | r `   | 472   |   
  |
| Income-Tax             | 456  | * <b>110</b> - 1   |   |   |  |   |  
   
   | ·   | 456   | 175   |   
   
   |  | ·   |  
  |   |  |   | 175   |   
  |
|                        | 30,320   | 11,642   | 2,297   |   |  |   | •••  
   
   |   | A 44,259  | 8,554   | 11,195  
   
   |  |   | 1.1.1  
  |   |  |   | A 19,749  |   
  |
|                        | 1,887  | •••  | •••   |   |  |   | · • • • •  
   
   | ·   | 1,837   | 1,261   |   
   
   |  | ]   |  
  |   |  |   | 1,261   |   
  |
| •                      | 1,205  | }  | •••   | •••   |  | •••   | •••  
   
   |   | 1,205   | - 352   |   
   
   | • •••  | · • • • •   |  
  |   | <b>]</b>   |   | 353   |   
  |
| General Administration | 2,798  | ·  | ,   | · ·•••  |  | •   | ·  
   
   |   | 2,798   | 517   |   
   
   |  |   |  
  |   |  |   | 517   |   
  |
| Courts of Law          | Nil  |  | •••   | •••   |  | •••   | · ;  
   
   |   | Nil   | 5,653   |   
   
   |  |   |  
  |   |  |   | 5,653   |   
  |
| Jails                  | 3,667  |  | •••   | 949   |  | •••   |  
   
   | ·   | 3,667   | <b>5</b> 31   | ·   
   
   |  | , <b></b>   | ·  
  | ļ   | ····.  |   | 531   |   
  |
| Police                 | 5,24,371   | 722  |   | 621   | 1.<br>A=#  | •   |  
   
   |   | 5,25,714  | 70,722  | 8,121   
   
   | 75   | 11,970  |  
  |   |  |   | 90,888  |   
  |
| Ports and Pilotage     | 72   |  | •••   |   |  |   | •••  
   
   |   | 73  | Nil   |   
   
   |  | )   |  
  |   | {  |   | Nil   |   
  |
| Education              | 2,964  | x  |   | •••   |  | •••   |  
   
   |   | 2,964   | 445   | •••   
   
   |  |   |  
  | ···· ·  |  |   | 445   |   
  |
| Ecclesiastical         | Nil  | ·  |   | <b></b>   |  | •••   | •  
   
   |   | Nil   | 24  |   
   
   |  | ···· ·  |  
  |   | ·  | !   | ′ 24 <sup>′</sup>   |   
  |
|                        | Land Revenue<br>Salt<br>Stamps<br>Excise<br>Customs<br>Income-Tax<br>Forest<br>Registration<br>Mint<br>General Administration<br>Courts of Law<br>Jails<br>Police<br>Ports and Pilotage<br>Education | Heads of Account.Compensation<br>allowance.Land RevenueRs.<br>47,089Salt2,459Stamps1,98Excise2,774Customs1,576Income-Tax456Forest30,320Registration1,887Mint1,205General Administration2,798Courts of LawNilJails3,667Police72Education2,964 | Heads of Account.Grain<br>Compensation<br>allowance.Grain<br>ond temporary<br>establish-<br>ment.Land RevenueRs.<br>47,089Rs.<br>18,705Salt2,459Stamps198Excise2,774Customs1,576Income-Tax456Forest30,32011,642Registration1,887Mint2,798General Administration2,798Jails3,667Police5,24,371722Ports and Pilotage2,964Ecclesiartical2,964 | Heads of Account.Grain<br>Compen-<br>sation<br>allowance.Grain<br>and tem-<br>porary<br>establish-<br>ment.ing<br>allowance<br>and tem-<br>porary<br>establish-<br>ment.Land RevenueRs.<br>47,089Rs.<br>18,705Rs.<br>7,956Salt2,459Stamps198Excise2,774Customs1,576Income-Tax456Forest30,32011,642Registration1,887Mint2,798Jails3,667Police5,24,371722Education2,964 | Heads of Account.Grain<br>Compen-<br>sation<br>allowance.Salaries<br>and tem-<br>porary<br>establish<br>ment.ing<br>allow-<br>ance and<br>contin-<br>contin-<br>contin-<br>ton with<br>famine.Land RevenueRs.<br>47,089Rs.<br>18,705Rs.<br>7,956Rs.<br>(1918-<br>Contin-<br>contin-<br>contin-<br>ton with<br>famine.Land Revenue47,08918,7057,956(1918-<br>contin-<br>contin-<br>contin-<br>contin-<br>ton with<br>famine.Salt2,459Stamps198Excise2,774Customs1,576Income-Tax456Mint1,205Mint3,667Jails3,667Police72621Ports and Pilotage72Education2,964 | Heads of Account.Grain<br>Compen-<br>astion<br>allowance.Grain<br>Compen-<br>sation<br>allowance.ing<br>allow-<br>ance and<br>contec-<br>contin-<br>gencies.allow-<br>ance and<br>contec-<br>tion with<br>famine.Imrove-<br>ance and<br>contec-<br>tion with<br>famine.Land RevenueRs.<br>47,089Rs.<br>18,705Rs.<br>7,956Rs.<br>17,970Rs.<br>ton with<br> | Heads of Account.Grain<br>Compen-<br>allowance.ing<br>compen-<br>establish<br>ment.ing<br>allow-<br>allow-<br>allow-<br>allow-<br>ing ence in<br>contin-<br>famine.Imrove-<br>ment of<br>water-<br>supply.Land RevenueRs.<br>47,089Rs.<br>18,705Rs.<br>7,956Rs.<br>19,970Ig19.Salt2,459Stamps198Stamps198Excise2,774Income-Tax30,32011,6422,297MintGeneral Administration2,798JailsPoliceForest and PilotageMintPoliceExciseIncome-Tax </td <td>Heads of Account.Grain<br/>Compen-<br/>sation<br/>allowance.ing<br/>and tem-<br/>porary<br/>establish<br/>ment.ing<br/>and tem-<br/>porary<br/>ance and<br/>contin-<br/>tion with<br/>gencies.Inrove-<br/>ment of<br/>tion with<br/>gencies.Inrove-<br/>ance and<br/>connec-<br/>tion with<br/>gencies.Inrove-<br/>ment of<br/>water<br/>supply.Tagai<br/>tagai<br/>loans<br/>written<br/>off.Land RevenueRs.<br/>47,089Rs.<br/>18,705Rs.<br/>7,956Rs.<br/>17,970Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.<br/>Rs.</td> <td>Heads of Account.Grain<br/>Compen-<br/>sation<br/>allowance.Grain<br/>of ment<br/>station<br/>ment.ing<br/>allow<br/>ance in<br/>contin-<br/>ton with<br/>gencies.allow-<br/>ince in<br/>ance in<br/>contin-<br/>ton with<br/>gencies.Inrove-<br/>ment of<br/>water-<br/>supply.Tagin<br/>allowance.able<br/>toget<br/>toget<br/>water-<br/>written<br/>off.Land RevenueRs.<br/>47/089Rs.<br/>18/705Rs.<br/>7,956Rs.<br/>1938.Rs.<br/>roce<br/>ton with<br/>gencies.Rs.<br/>roce<br/>rom with<br/>gencies.Rs.<br/>roce<br/>rom with<br/>gencies.Rs.<br/>roce<br/>water-<br/>water-<br/>supply.Rs.<br/>roce<br/>rom with<br/>supply.Rs.<br/>roce<br/>roce<br/>water-<br/>supply.Rs.<br/>roce<br/>roce<br/>water-<br/>written<br/>off.able<br/>toget<br/>toget<br/>toget<br/>toget<br/>toget<br/>togetLand RevenueRs.<br/>47/089Rs.<br/>18/705Rs.<br/>roce<br/>rom with<br/>gencies.Rs.<br/>roce<br/>rom with<br/>supply.Rs.<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roce<br/>roc</td> <td>Heads of Account.<math>\begin{array}{cccc} Grain station station allowance. \\ rompen station allowance. \\ rompen porary ment. \\ restablish ment. \\ restablis</math></td> <td>Heads of Account.Grain emperator<br/>sation<br/>allowance.ing and tem<br/>porary<br/>and emp<br/>sation<br/>allowance.ing and tem<br/>porary<br/>ance and connec.<br/>famine.ing and tem<br/>ment of<br/>water.able to inment of<br/>tagan<br/>allowance.able to inment of<br/>ment of<br/>allowance.able to inment of<br/>ment of<br/>allowance.able to inment of<br/>ment of<br/>allowance.able to inment of<br/>ment of<br/>ment of<br/>allowance.able to inment of<br/>ment of<br/>allowance.able to inment of<br/>ment of<br/>ment of<br/>ment of<br/>ment of<br/>ment of<br/>ment ofable to inment of<br/>ment of<b< td=""><td>Heads of Account.       Compen-<br/>sation<br/>allowance.       Grain<br/>oprary<br/>sation<br/>allowance.       ing<br/>party<br/>ment.       Ing<br/>ance and connec-<br/>gencies.       Informe-<br/>sation<br/>famile.       Tagai<br/>allowance.       Govern-<br/>tagin<br/>allowance.       Total.       Compen-<br/>sation<br/>allowance.       and tem<br/>party<br/>sation<br/>allowance.         Land Revenue        Rs.<br/>47,089       Rs.<br/>18,705       Rs.<br/>7,955       17,970       Rs.<br/>       Rs.</td><td>Heads of Account.       Salaries of memory output to the second se</td><td>Heads of Account.       Grain organization of the state of the state</td><td>Heads of Account.       Grain operation opera</td><td>Heads of Account.       Corin porty station allow preventation of the preventation of the preventation and and connection of the preventation and connection and connection</td><td>Heads of Account.       Grain allow and each and conner station allow ance and conner station allow ance and conner water allow a</td><td>Heads of Account.       Corain stanter and term stanter station and term station and</td><td>Heads of Account.       Company and rest and</td></b<></td> | Heads of Account.Grain<br>Compen-<br>sation<br>allowance.ing<br>and tem-<br>porary<br>establish<br>ment.ing<br>and tem-<br>porary<br>ance and<br>contin-<br>tion with<br>gencies.Inrove-<br>ment of<br>tion with<br>gencies.Inrove-<br>ance and<br>connec-<br>tion with<br>gencies.Inrove-<br>ment of<br>water<br>supply.Tagai<br>tagai<br>loans<br>written<br>off.Land RevenueRs.<br>47,089Rs.<br>18,705Rs.<br>7,956Rs.<br>17,970Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs. | Heads of Account.Grain<br>Compen-<br>sation<br>allowance.Grain<br>of ment<br>station<br>ment.ing<br>allow<br>ance in<br>contin-<br>ton with<br>gencies.allow-<br>ince in<br>ance in<br>contin-<br>ton with<br>gencies.Inrove-<br>ment of<br>water-<br>supply.Tagin<br>allowance.able<br>toget<br>toget<br>water-<br>written<br>off.Land RevenueRs.<br>47/089Rs.<br>18/705Rs.<br>7,956Rs.<br>1938.Rs.<br>roce<br>ton with<br>gencies.Rs.<br>roce<br>rom with<br>gencies.Rs.<br>roce<br>rom with<br>gencies.Rs.<br>roce<br>water-<br>water-<br>supply.Rs.<br>roce<br>rom with<br>supply.Rs.<br>roce<br>roce<br>water-<br>supply.Rs.<br>roce<br>roce<br>water-<br>written<br>off.able<br>toget<br>toget<br>toget<br>toget<br>toget<br>togetLand RevenueRs.<br>47/089Rs.<br>18/705Rs.<br>roce<br>rom with<br>gencies.Rs.<br>roce<br>rom with<br>supply.Rs.<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roce<br>roc | Heads of Account. $\begin{array}{cccc} Grain station station allowance. \\ rompen station allowance. \\ rompen porary ment. \\ restablish ment. \\ restablis$ | Heads of Account.Grain emperator<br>sation<br>allowance.ing and tem<br>porary<br>and emp<br>sation<br>allowance.ing and tem<br>porary<br>ance and connec.<br>famine.ing and tem<br>ment of<br>water.able to inment of<br>tagan<br>allowance.able to inment of<br>ment of<br>allowance.able to inment of<br>ment of<br>allowance.able to inment of<br>ment of<br>allowance.able to inment of<br>ment of<br>ment of<br>allowance.able to inment of<br>ment of<br>allowance.able to inment of<br>ment of<br>ment of<br>ment of<br>ment of<br>ment of<br>ment ofable to inment of<br>ment of <b< td=""><td>Heads of Account.       Compen-<br/>sation<br/>allowance.       Grain<br/>oprary<br/>sation<br/>allowance.       ing<br/>party<br/>ment.       Ing<br/>ance and connec-<br/>gencies.       Informe-<br/>sation<br/>famile.       Tagai<br/>allowance.       Govern-<br/>tagin<br/>allowance.       Total.       Compen-<br/>sation<br/>allowance.       and tem<br/>party<br/>sation<br/>allowance.         Land Revenue        Rs.<br/>47,089       Rs.<br/>18,705       Rs.<br/>7,955       17,970       Rs.<br/>       Rs.</td><td>Heads of Account.       Salaries of memory output to the second se</td><td>Heads of Account.       Grain organization of the state of the state</td><td>Heads of Account.       Grain operation opera</td><td>Heads of Account.       Corin porty station allow preventation of the preventation of the preventation and and connection of the preventation and connection and connection</td><td>Heads of Account.       Grain allow and each and conner station allow ance and conner station allow ance and conner water allow a</td><td>Heads of Account.       Corain stanter and term stanter station and term station and</td><td>Heads of Account.       Company and rest and</td></b<> | Heads of Account.       Compen-<br>sation<br>allowance.       Grain<br>oprary<br>sation<br>allowance.       ing<br>party<br>ment.       Ing<br>ance and connec-<br>gencies.       Informe-<br>sation<br>famile.       Tagai<br>allowance.       Govern-<br>tagin<br>allowance.       Total.       Compen-<br>sation<br>allowance.       and tem<br>party<br>sation<br>allowance.         Land Revenue        Rs.<br>47,089       Rs.<br>18,705       Rs.<br>7,955       17,970       Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs.<br>Rs. | Heads of Account.       Salaries of memory output to the second se | Heads of Account.       Grain organization of the state | Heads of Account.       Grain operation opera | Heads of Account.       Corin porty station allow preventation of the preventation of the preventation and and connection of the preventation and connection | Heads of Account.       Grain allow and each and conner station allow ance and conner station allow ance and conner water allow a | Heads of Account.       Corain stanter and term stanter station and term station and | Heads of Account.       Company and rest and |

24A. Medical	2,451	5,876						¦	· 8,327	809	10,104	17		 	<b>]</b>	 		10,930
24B. Sanitation	6,042				•••		•••		6,042	731								731
25. Political	3,279	566							3,845	Nil	4,062	7,456						11,518
o 26A. Agriculture	1,909								1.909	529								529
26B. Scientific, etc	246								246	Nil				•••				Nil
30. Stationery, etc	1,542								1,542	599			í					\$99
32. Miscellaneous	2,157	•••				   . •••	2,755	B9,68,736	9,73,643	37						8,80 <sub>5</sub>		8,902
35. Protective Works	2,032								2,032	Nil							•••	N2
42. Major Works	15,232			34.305					+9.537	936	•	·	37,962	•••				38,898
43. Minor Works (Civil).	Nil						•••		Nil	· Nil								Nil
Do. (P. W.)	12,532	•••		11,201	· •••				23,733	777			ون8					1,644
45. Civil Works (Civil)	29				26,528				26,557	9				63,6ú <b>7</b>				63,676
Do. (P. W.)	11,538	30		1,3798			•••		25,366	495	3,364	548	23.517					27,924
Loans and Advances			 			77,42,104			77,42,104					•••	1,27,62,295			1,27,62,295
							<del></del>				·							· <u> </u>
Total	6,80,825	37,541	10,253	77,898	26,528	77,42,104	2,755	9,68,736	95,46,637	1,02,243	1,10,119	33,327	1,12,661	63,657	1,27,62,295	8,865	•••	1,31,93,177

A. Besides these figures the total debits and credits on account of famine grass operation are as under.

	`			1918-19.				
				Rs.	. '			
	Forest			35,74,044.				
IX	do.			A D.C.				
				1915-20.				
				Rs.				
	Forest	•••		14,00,997.		•	•	
IX	du.	•••	•••	11,28,354.				

B. Out of these sums a sum of Rs. 68,044 was credited to Government in the year 1919-20 and a further sum of Rs. 129 is likely to be recovered.

Deputy Accountant General.

#### APPENDIX 8.

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(Referred to in paragraph 17 of the Resolution). List of famine relief works carried out under the P. W. Agency.

No.	Classification and name of works,	Amonnt of estimate.	Whether Major or Minor.	Number of workers.	Actual cost.	Actual cost at ordinary rates.	. Date of opening,	Date of closing.	Whether of permanent chara- cter and public utility.	Remarks.
1	3	3	4	- 5	б	. 7	8	9	10	11
	PANCH. MAHALS DISTRICT. 33-FAMINE RELIEF.				•	•				
	III. Public Works. Construction of Irrigation Tanks.				•••		•		. e	
1	Moti Handi Tank '/	99,635	Major	1,21,658	\$3,060	15,655	25th November 1918	20th July 1919 .	Yes	Not completed.
9	Varod Sapoi Tank	57,334	Do	1,74,262	32,265	<sup>2</sup> \$4,408	14th December 1918	20th July 1919 .	Do,	Do.
3	Ambli Chharchhoda Tank	1,45,675	.Do	3,22,567	53.5 <sup>8</sup> 7 ·	36,682	12th January 1919	31st July 1919 .	Do	Completed.
4	Dhamarda Tank		. Do	63,876	13,177	9,816	9th February 1919	20th July 1919 .	Do	Not completed.
5	Guneli Tank	1,58,128	. Do	85,136	19.799	13,678	22nd February 1919	31st July 1919 .	Do	Do.
6	Agawada Tank	94,261	. Do	1,59,548	26,755	14.355	15th February 1919	20th June 1919	Do	Do.
2	Pania Tank	72,139	. Do	1,96,103	32,785	26,241	3rd March 1919	315t July 1919 .	Do	Do.
	Miscellaneous Public Improvements.		•				•	· '	4	
8	Constructing Dholakhakhra Tank	17.515	Do,	49,864	9,608	7,278	29th March 1919	20th June 1919 .	Do	Do.
. 9	Improvements to Tank at Pethapur	22,776	. Do	78,782	11,385	10,152	15th November 1918	· ·	Do	Completed.
10	Do. at Sabli	11,394		25,462	4.597	3,440	2nd March 1919		Do	Do.
	Do. at Rajpur	25,413	. Do	59,058	11,768	8,878	18th March 1919			Not completed.

12	Do.	at Wadva		34.227	Do	47,682	7,207	5,530	2nd April 1919 .		Do.		\ •••	Completed.	
13	Do.	at Gundikhoda	•••		Do	11,955	2,710	2,000	24th March 1919 .	20th June 1919	Do.	•••	•••	Not completed.	
14	Do.	at Gultora	•••	2,450	Minor	14,385	2,663	2,450	14th December 1918	Sth February 1919	Do.		•••	Completed.	
15	Do.	at Tadagola		3,920	Do	17,512	2,583	2,100	6th February 1919 .	1st March 1919	. Do.	•••	•••	Do.	
16	Do,	at Rampura			Do	9,368	1,736	1,350	5th March 1919 .	12th May 1919	Do,			Do.	
17	Do.	at jekot		940	Do	4,649	826	700	13th May 1919 .	20th June 1919	Do.	•••	•	Not completed.	
•	Сомм	INICATIONS.		· ·		,				],	1		•		
	Construc	tion of roads.						-							
18	Dohad Jasawada Roa	d		30,241	Major	<b>9</b> 9,877	18,302	13,724	ıst March 1919 • .	31st July 1919	Do.			1st section completed.	
19	Vijayadh Ghati Road			4,898	Minor	20,438	3,405	3,000	23rd May 1919 .	Do. •	Do.		•••	Not completed.	
-	Collection and Conv	•	oads.												
20	Collecting and conve for repairs to Dohad	ying 10 years meta 1 Limdi Road.	l supply	12,474	Major …	49,5 <sup>8</sup> 3	8,909	5,828	3rd March 1919 .	Do,	Do.	· ···	•••	Do.	
21	Collecting and conve for repairs to Doha	eying 10 years meta d Alirajpur Road.	supply	24,589	Do	1,58,878	27,230	15,956	Do.	Do.	Do.		•-•	Do.	
22	Collecting and conve for repairs to Jhalo	eying 10 years meta I Khusalgadh Road	l supply	65,527	Do	70,975	13,216	6,98 <b>8</b>	11th March 1919 .	Do.	Do.	•••		Do.	
23	Breaking metal on D Jhalod Road.	ungry Quarry on L	imkheda	1,890	Minor	8.590	1,672	631	7th April 1919 .	31st May 1919	Do.		•••	· Do.	
	wor	KS OPENED AS	TEST	WORKS AN	ο ουτι	NUED AS	SUCH TI	LL THE EN	D OF FAMINE.						
	MISCELLANEOUS	PUBLIC IMPROVEME	NTS.				· ·								
	Construc	tion of Tanks.													
24	Uja <b>la</b> Tank		•••	2,480	Minor	4,593	1,321	1,150	10th March 1919	10th July 1919	Do.			Completed.	
	Collection and conv	eyance of metal for	roads.							-	ļ				
25	Godhra-Shehra Road				Do.	13,930	2.934	1.699	21st February 1919 .	18th July 1919	Do.		•••	Not completed.	
26	Sunth Road to Sulia	Road (Ngdhari Q	uarry)	3,620	ມ₀	10,191	2,410	1,833	3rd April 1919 .	17th July 1919	Do.		<b></b> .	Do.	
27	Godhra Kalol Road (	Bhadroli Quarry)		1,797	Do	6,157	1,348	782	30th March 1919	. 8th July 1919 .	Do.	•••		Do.	

	1		<u> </u>		1	· · ·	· · · · · · · · · · · · · · · · · · ·		<u>_</u>		
No.	Classification and name of works.	Amount of estimate.	Whether Major of Minor.	Number of Workers,	Actual , cost.	Actual cost at ordinary rates.	Date of opening.	Date of closing,	Whether of permanent charac- ter and public utility.	Remarks.	
	. 2	3	4	J <sub>S</sub>	б	7	8	9	10	11	
	33, FAMINE RELIEF.	Rs.			Rs.	Rs.					
	III. PUBLIC WORKS,	,				· · ·					
	A. Communication—I. Earth work on road.		]			, ,		·			
1	Constructing a road from Rajur to Manik Ojha.	, 268	Minor	329	286	<b>E</b> 72	9th November 1918	8th January 1919	Not permanent and of no utility.	Opened as a test work and abandoned; practi- cally no work done. ~	
.2	Constructing a road from Shrigonda to Mandav- gan.	• • •	Do	1,123	798	479	19th November 1918	12th January 1919	Not permanent, use- ful.	Test work only and only small amount of work carried out.	
3	Constructing a road from Ghodegaon to Kukana road.	96,498	Major	361,476	95,814	37,221	20th November 1918	11th April 1919	Not permanent, use- ful.	can be classed as	28 8
4	Constructing a road from Parner to Wadegavan.	82,008	,Do	233,149	78,398	33,563	18th November 1918	4th June 1919	Do		•
5	Constructing a road from Karjat-Babulgaon road.	2,00,399	Do.'	191,799	73, <sup>8</sup> 93	27,207	20th November 1918.	31st August 1919	Do	unless completed either as murum or metal roads and	
-6	Improvements to Ahmednagar Takli-Dhokeshwar road.	2,15,057	Do	215,982	68,566	28,846	24th February 1918	15th August 1919	Do	maintained must deteriorate and be- come useless except	4
7	Improvements to Ghodegaon Sonai-Wambori road.	59,0 <b>60</b>	Do	226,099	57,271	34,362	ıst April 1919	15th June 1919	Do	as cart tracks in a few years.	and the second
	2. Stone metal collection.	•			, ,					, , , , , , , , , , , , , , , , , , ,	
.8	Metal breaking camp at Shevgaon	4,08,823	Do	902,188	3,01,692	<b>1,51,</b> 658	 13th January 1919 	10th September 1919.	Permanent and use- ful.	1.	
9	Metal breaking camp at Supa	14,526	Do	47,696	15,956 -	. 4,485	5th June 1919	31st August' 1919	' Do		
10	Metal breaking camp at Vadala	б1,527	Da	135,508 -	62,830	17,893	16th June 1919	15th September 1919	Do	stacked in conve- nient places.	
	B. Miscellaneous Public Improvements.	х. — — — — — — — — — — — — — — — — — — —				· ·	· ·			· · ·	
11	Constructing a tank at Shevgaon	3,18,775	Do	47.195	13,133	5,027	11th September 1919.	15th October 1919	Not permanent and not useful until completed.	Only earthwork carried out on preparing the site of the dam.	

	ļ	CIrrigation-1. Earth work in Canals.	1	l		İ					1	
E C Rev	2	Constructing Visapur Left Bank Canal	Estimate under pre- paration.	Do.	••	1,71,239	63,325	20,613	18th January 1919	31st July 1919	Permanent and use- ful.	Work in progress as an ordinary work.
		D.—Construction of Railways—1. Earth work.										
1079—8	3	Constructing Belapur-Shevgaon Railway	. Do	Do.		938,731	2,49,889	1,36,607	12th April 1319	15th October 1919	Not permanent, use- ful.	be of great use, but unless maintained it will deteriorate and be-
		33, FAMINE.			1						r	come useless in a few years.
	ļ	III. PUBLIC WORKS.										
		A. Communications. Original works Earth work on reads.										Dependents.
	ı In	Improving Alandi-Chakan road	. 1,20,000 (approximate)	Major		• 1,668	61.545A	43,800	7th February 1919	23rd August 1919	Yes, in realigning	Camp at Alandi 748
			(al-bitaningic)			330,265	89,784B			-	the old road in length of 5 mile avoiding stee gradients.	148,205
		Stone metal collection.										
	2	Metal collection on the Poona-Ahmednagar road	(G. O., P. W	. Do.	•••	4,376	1,10,283A	50,338	27th January 1919	31st August 1919	Yes, as supplying metal for road re-	
			D., F. 2074 D 21st Fe bruary 1919)	-		722,653	1,81,514B				pairs.	Kand. 1,314 224,092
	3	Metal collection on the Poona-Nasik road	. 1,29,600 (G. O., P. W	Do.		3,657	1,13,492A	56,620	3rd February 1919	29th August 1919	Do	Camps at Peth, Kalamb
			D., F. 2074 dated 215	H .	ĺ	655,364	1,67,794B					and Narayang a o n. 570
			. February 1919).									118,518
		· C. Irrigation-2. Irrigation Tanks.	j.									
	4	Constructing Ranjangaon Ganpati tank	3,39,593 (G. O., P. W	Do.		2,51.4	51,104A	23,811	18th March 1919	28th June 1919		Camp at Ranjangaon.
			D., F. 1183 dated 30th April 1919.)			263,937	80,243B				irrigation tank work to irrigate about 800 acres.	<u>740</u> 77,708
					ļ							
1	і • т	he range former that the surger surplus of the	1	1		<b>1</b>				]	J (	- is knowledge in the last

• The roman figures show the average number of daily workers, while the italic figures denote the total units relieved. The figures for dependents which are not included in column 5 are shown in lependently in the last column.

A Cost excluding gratuitous relief.

B Cost including gratuitous relief

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No.	Classification and name of works.	Amount of estimate.	Whether Major or Minor.	Number of Workers.	Actual cost.	Actual cost at ordinary rates.	Date of opening.	Date of closing.	Whether of permanent charac- ter and public utility.	Remarks.
1	3	3	4	5,	6	7	8	9	., 10	II
I Kor		Rs. 999,772 for works and †Rs. 11,077 for Tools and Plant. *Plan and Estyme a te sa betioned in G. O., P. W. D., No. F		At the beginning on 5th March 1919 237. Highest number reached on 26th April 1919 9.247. Number at the close on 24th June 1919 1,675	inclusive of Rs. 10,813 on account of gra- tuitous relief. *This inclu- des Rs. 313 for contin-	As per Esti- mate sanc- tioned.		24th June 1919	Work of "Perman- ent character and public utility" be- ing purely earth work in connection with Railway em- bankment.	Cutting 1,801,769 clt. Embank-

#### APPENDIX 8-contd. . .

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APPENDIX 9. (Referred to in paragraph 23 of the Resolution.) Statement of Prices. (In seers of 80 tolas each per supee.)

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								-	/	(in seers (	of 80 tola:	s each per	rupee.)										
District.		Normal Third Quarter.	July 1918.	August 1918.	Septem- ber 1918.	Normal Forth Quarter.	October 1918.	Novem- ber 1918.	December 1918.	Normal First Quarter.	January 1919,	February 1919.	March 1919.	Normal Second Quarter.	April 1919.	May 1919.	June 1919.	Normal Third Quarter.	July 1919.	August 1919.	Septem- ber 1919.	Normal Fourth Quarter,	October 1919.
Jowari.			,			1		1		· ·	1		· .			1.	[			1			
Ahmedabad	•••	15 .	61	6}	6	155	6	6	6	16]	6	6	6	17	6	53	_ <b>`</b> \$	15	5	5	6	153	63
Panch Mahals*		19	t   8	в	6	20	4	43	. 43	22	43	43	<b>4</b> `	213	5	53	53	19	5			20	
Kaira	•••	143	Jawar	i not avai	i able	16	Jowar	i not avail	able	19	Jowar	inot avail	abl.	17	Jowari	i not avai	abie	143	Jawari	. Do	availabe.	16	
Broach		16	53	5	43	15	5	5	• 5	• 16}	4	+	43	17	43	43	43	16	5	5	5	15	53
East Khandesh	-	20	51	53	572	17	418	47.0	.315	213	3,7	543	4 <sub>18</sub>	22	475	48	41	20	433	48	5 <u>8</u>	17	6
West Khandesh		20	6,9	5.5		173	Ś.	33		223	3}	343	41	22)	5	41	4	20	470	4 <sup>9</sup>	416	17	67 <sub>8</sub>
Nasik		. 17	No	t <sub>i</sub> sole	4 ·	151	No	t sold.		20}	No	t sold		19	No	sold .	i i	17	Not	sold	l l	15	
Ahmednagar	•••	. 21 ·	63	48	· 41	20	43	315	312	213	· 3+2	413	4 <u>7</u> 4	213	4.%	. 473	474	21	42	_ 4 <i>2</i> €	47	20	41
Poona		. 163	53	43	3	153	38	38	38	173	3 <sub>76</sub>	47.	418	173	· 58	52	413	163	414	41	5	15]	41
Sholapur ·		. 21	5Ŧ*	478	· 47	19	4	4	53	- 23	413	53	52	23	5	43	53	21	53	51	52	19	. 53
Satara	•••	. 16]	42	Słà	3,7,	151	31	4.4	33	17	SIL	5 JE	148	17	373	- 343	42	163	41	4 <i>7</i> 4	44	15]	618
Bijapur		. 22	578	440	4.92	20]	42	44	44	23	4-2	375	3	233	32	4	s	22	5%	578	5 <sub>1</sub> 8	203	5 <u>f</u> §
Belgaum		. 18	6	42	3	18	4	31	42	21	51	4.	4/2	20	- Q.	476	41	18}	4;8	433	4报	18	5,2
Kathiawar		+16	· 6	53	42		- 38	32	4	1	4	• 32 •	31	· '	4	4	4	·	· 478	53	53	]	5
Rewakantha			5	5	53	,	33	4	4	<b>.</b>	. 5	42	41		5}	51 -	5		5	, 5	·	••• .	
Bajri.			. [				• .			Į			[				1			ľ .			
Ahmedabad		. 14	6	6	5]	14	6	53	5	151	5	5	5 .	15	. 5		33	14	3	31	43	14	6
Panch Mahals	••	. 153	43	43	3	15	3	4	3)	17	31	31	4	17	4	4	. 31	15 <u>à</u>	5	43	4	15	63
Kaira		. 14	5	42	4	14	3	3	31	16	31	31	31	15	4	4	31	14	31.	43	43	14	71
Broach	••	. 13]	5	5	4	13}	4	4	31	143	33	3	•	15	4	4	4	134	5}	5	5	13	7
East Khandesh	ί.	18	538	54à	4	16	33	33	. 31	19	3,%	33	44	193	411	4.	4,5	18	41	413	5	16	51
West Khandesh	v	171	6 <sub>7</sub> *	4	4	14]	3,6	- 3,*	3.2	183	33	Sĝ	31	19	ં નૃ	44	311	175	3;2	3/4	41	142	5,%
Nasik		163	-17	5.74	478	15}	4,1	3 P.	313	18	1 311	3,78	313	17	372	1 '3B	38	16}	43	453	456	15	63
Ahmednagar	•	18	51	430	34:	17	434	33	3}	18)	31	· 3}	33	19	31	3	4	18	410	474	4%	17	47
Poona	÷.	. 143	413	413	3.%	131	3.3	4,54	36	15)	31	31	45	15	478	423	43	143	428	43	4%	13]	5,5
Sholapur	•	. 193				173			41	21	( 4. Ce	43	33	20	58	no		193	bot	sold	5	173	67
Satara	•	15	42	' 3 <del>}</del> }	3,5	14	. 38	444	33	16)	815	47.	311	16	' 3}]	313	. 3?	15	3/2	3 2	5? <u>a</u>	14	6.2
Bijapur	•	21	N	ot ava	il able	211	No	•	il able	23	No	n avai	abl	e 20	No	1	lable.	21}	Not	avail	able.	213	
Belgaum	-	191	6	5	4	19	. 5	5	53	22	4	41	44	21	45	41	4/1	193	3,3	41	456	19	58
Kathiawar		†15	44	44	· 31	l	27	21	3		3	25	• 3		31	31	31		31	5	43		6
Rewakantha	•		51	53	47		•	32	32		37	3)	3)		4 33	32	3		33	48			

• The prices shown against this district are for maize.

+ Normal price for the whole year.

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APPENDIX' 10. (Referred to in paragraph 25 of the Resolution.) Statement of mortality in the affected districts.

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							Num	ber of de	aths.	<u>,                                     </u>			7			·	<b>.</b> .	Rat	io per 1,0	00 of pop	ulation.				
District.	Mortality,	Novem- ber 1918.	Decem- ber 1918.	Janu- ary 1919.	Febru- ary 1919.	March 1919.	April 1919.	May 1919.	June 1919.	July 1919.	August 1919	Sertem Jer 1919.	Total.	Normaj mean.	Novem- ber 1918.	Decem- ber 1918.	Janu- ary 1919.	Febru- ary 1919,	March 1919.	April 1919.	May 1919.	June 1919.	July 1919.	August 1919.	Septe bet 1919
	Total mortality	6,130	1,130	640	644	633	645	601	593	874	1,263	1,049	14,202	6,531	19.00	S*50							<b></b> _		İ
ich Mabals¢	Do. (exclusive of	6,130	1,125	640	644	633	645	601	593	874	1,263	1,049	,	0,201	19.00	3·30	1.98	2.00	1.96	2.00	1 86	1 84	2.71	3.91	
	Plague). Normal mean ( Do, )	771	671	629	566	655	572	52\$	448	500	594	600	•		2.39	2.08	1-98	2 00	1.96	2.60	1.86	1.84	2.71	3-91	
, , c	Total mortality	9,171 <sup>°</sup>	2,090	1,720	1,558	1,794	1,736	2,372	2,760	8,558	4,027	· 2,921	33.807	24,589	9.72	2.21	1.95	1.75	2.03	177	1.63	1.39	1.22	1.84	-
ednagar . { }	Do. (exclusive of	9,162	2,086	1,716	1,549	2,763	1,731	2,372	2,760	3,558	4.027	2,921	·		9.71	2'21	1.82	1.65	1.90	1.84	2.21	2.92	3.97	. 4.27	1
l	Normal mean ( Do. )	2,214	2,020	1,662	1,454	1,655	1,877	2,110	2,358	<b>5,</b> 039	5,291	2,909			2.34	3.14	1 82 176	1.64 1.24	1·87 1·75	1.83	. 2'51	2.92	3.77	4.27	1
\ d	Total mortality	7,406	3,070	2,926	3,060	3,649	3,397	3,646	5,325	5,164	4,257	3,097	42,997	27,294	6-95	2.88	2.75	2.87	3'43	1·99 3·19	2·24 3·43	2.50	3.22	3.48	-i
a	Do, (exclusive of Plague).	7.267	3.034	2,912	3.046	3,640	3,391	3,641	3,325	5,164	4.257	3,091			6 82	2.85	2.74	2.87	3.42	3.18	3.42	3.12	4.85	4.00	
ų	Normal mean ( Do. )	2,442	2,546	2,011	1,756	2,052	2.367	2,441	4,534	3,011	5,199	- 2,937	•		2 29	2.39	1.89	1.63	1.93	2.22	2.29	3·12 2·38	4.85	4.00	
r l'	Total mortality	7,422	2.774	2,211	1,747	1.930	1,973	. 3,161	2,588	. 2.759	3,064	2.491	31,121	24,839	6.87	2.57	2.02	1.62	1.78	1.82	2 92	2.30	2.83	\$*00 2*83	
• • • {	' Do. (exclusive of Plague).	7,050	2,438	1,975	1,620	1,782	1,914	3,129	2,546	2.652	2,841	2,381			6.52	2.25	1.83	1.49	1.65	1.77	2 89	2.37	2·55 2·45		
<u> </u>	Normal mean ( Do. )	2.257	2,175	1.899	1.511	1,763	1.894	2,349	2,589	2,704	· 2,905	2 793		.	2.09	2.01	1.76	1.39	1.63	175	2.17	2.40	2.50	2:61 2:69	1
۲l آ	Total mortality	11,409	2,663	1,899	1,838	2.319	2,051	1,860	1.343	1,680	2,729	2,780	32,571	, 26,460	13.79	3-21	2.30	2.22	2.80	2.47	2.25	1.62	2.03	3.30	
dabad {	Do. ' (exclusive of Plague),	11,409	2,659	1,899	1.838	2,315	2,050	1,860	1,343	1,679	2,729	2,779		•	13-79	3-21	2.30	2.22	2.80	2.47	2.25	1-62	2.03	3.30	
() 2	Normal mean ( Do, )	2,866	2,820	2,746	2,602	2,875	2,446	2,053	1,654	1,756	2,184	2,458	-		3.46	3'41	3.32	3-14	3.47	2 96	2.46	2 00	2.03		1
i l'a	fotal mortality	6,236	1.916	1.528	1,261	1,545	1,463	1,427	992	1,508	2,660	1,845	22,401	20,055	9-04	2.77	2.21	1-81	2 23	2.11	2 06	1.43	2.12	2.64 3.85	
	Do. (exclusive of Plague).	6,168	1,908	1,525	1,255	1,536	1,462	1,427	992	1,508	2,660	1,845			8.92	. 2.76	2.21	-1-80	2.22	2.11	2.06	1.43	2.18	3.85	1
- Çx	formal mean ( Do. )	2,115	1,809	1,668	1,547	1,906	i,711	1,654	1,589	2,066	1,992	1,998			3.06	2.62	2.41	2.24	2.76	2.47	2.39	2.30	3.02	2.88	1
. [] <sup>1</sup>	otal mortality	2.051	1,096	1,172	1,050	1,147	1,651	1,476	900	964	887	724	13,118	9,969	6.63	3-58	3-82	3-41	3.74	5.38	4.81	2.93	3.14	2.89	1
·{	Do. (exciosive of Plague).	2.045	1,074	1.161	1,035	1,128	1,650	1,476	900	964	887	924			6 67	\$-50	3.79	3.37	3-68	5.38	4'81	2.93	3-14	2:89	
U, N	formal mean ( Do. )	1,193	1,136	1.009	900	948	843	762	669	779	832	898			3-69	370	\$°29	2.93	3-09	2.75	2.48	2.18	2.24	271	
	otal mortality	12.648	3,341	2,387	1,711	1,603	1,380	1,140	1.055	2,408	3,187	2,255	33,115	18,218	21-78	5.75	4.11	2.24	2.76	2.38	1.96	1.81	4.15	5.49	
Khan-	Do. (exclusive of Plague).	12,625	3,337	2,384	1,710	1,595	1,378	1,140	₹958.	2,405	, 3,160	3,666		•	21-74	5.74	4.10	2.94	274	2.37	1.96	1.81	414	5.44	
i.	formal mean ( Do. )	1.743	1,796	1.818	1,654	1,953	1,800	1,683	1,180	1 332	1,632	1.647			3 00	3-83	3-11	2.81	3'36	3.10	2.90	2.03	2.29	2.81	

s S

	Total mortality	13.582	5,462	2,929	2,028	2,183	1.956	2,144	1.866	3,835	4.061	3,011	41.077	32,751	13-13	5-37	2.83	1.96	<b>1</b> :11	1.89	2.07	1.20	5.91	3 93	2-91
East Khan-	Do. (exclusive of	13,582	3,482	2,929	2,028	2.183	1,956	2,144	1,866	S,835	4,061	3,006			13-13	3.37	2 83	1 96	2.11	1.89	2.07	1.80	3.71	3.93	2-91
l	Plague). Normal mean ( Do. )	3,035	2,931	2,770	2,481	3,013	3,207	3,297	2,217	2,638	3,539	9,623			2'93	2.83	2 68	2.40	2.91	3-10	3114	214	2.25	3.43	3-50
ĺ	Total mortality	15,407	4,363	2,970	2,224	2,261	2,222	2,904	3,284	4,968	4,396	2,757	50,756	28,055	20'37	4.79	3-28	2:47	2.22	2.16	3-21	3.63	5-49	4.86	3-05
Nasik	Do. (exclusive of Plague).	18,379	4,361	2,969	2,215	2,259	2,222	, 2 903	5,284	4,968	4,396	2,755			20-34	4.79	3*28	2.45	2.52	2.46	3.21	3.63	5-49	4.86	3.02
ť	Normal mean ( Do. )	2,733	* 2,778	2,583	2,120	2,334	2,369	2,418	2,245	1,539	2,984	2,953			3.02	3.02	2.86	2:34	2.28	2 62	2.68	2.48	2.81	3-32	3:27
[	Total mortality	9,213	2,131	1,934	1,635	1,843	2,195	2,272	2,007	2,867	2,529	1,711	30,337	22,510	12-00	2.78	2.52	2.13	2-40	2.86	2.96	2.61	\$ <sup>.</sup> 73	- 3-29	2.73
Sholapur	Do. (exclusive of Plague).	9,141	2.120	1,918	1,584	1,826	2,194	2,269	2,007	2,867	2,529	. 1,711	-		11-91	2.76	2:50	2.07	2:37	2 86	2.96	2.61	3.73	5129	2.73
l	Normal mean ( Do. )	2,064	1,974	1,499	1,360	1,498	1,748	1,880	1,905	2.572	2,935	3,075		•	2*69	2.57	1.92	177	1.92	2.78	° 2°45	2.48	3.35	3.85	4.00
·_ · [	Total mortality	15,729	2,875	2,015	1,558	1,795	1,571	1,742	1,999	2,032	2,025	1,782	35,123	25,641	16-70	3-05	2.14	1.65	1.90	1.67	1.82	2.13	<b>2</b> ·16	2.13	1.85
Belgaum	Do, (exclusive of Plague).	15,651	2,757	1,917	1,460	1,745	1,551	1,739	1,999	2.021	1,914	1.692		- -	16.62	2.93	2'04	1.22	1.82	1.62	1.82	2.12	\$15	2.02	1.20
- 1	Normal mean ( Do. )	2,426	2,628	2,236	1,689	2,256	2,115	2,158	2,252	2,335	2,563	2,783			2'58	2.79	2:37	2.01	2.40	2.52	2.29	2.39	2.48	2.72	2·95
	Total mortality	17,466	3,388	2,077	Ĩ,474	1,716	1,710	1,762	1,763	2.243	2,237	2,131	37,967	23,646	20.24	3-93	<b>2</b> .40	1.21	1.99	1.98	2.01	2.04	2.60	2.29	2:47
Bijapur	Do. (exclusive of Plague).	17,360	3,199	2,000	1,442	1,701	1,710	1,762	1,763	2,243	2,228	2 111		:	20.12	3-71	2 32	1.67	1.97	1.98	2.04	2.04	2.60	2.28	2-45
	Normal mean ( Do. )	2,562	2,582	2,075	1,566	1,790	2,001	1,859	1,858	2,142	2,391	2,820			2 97	2.99	2.40	1.81	2.07	2:33	2-15	2.12	2.48	2.77	3.27
Non-affected Districts.	Average Total mortality ratio.	3	***				•**		•••		*** .		843 2		11 25	3 81	3.35	2.98	2.79	2.62	2.87	3.20	3-42	3.58	2.46

#### APPENDIX 11.

#### (Referred to in paragraph 29 of the Resolution.)

### Report on Famine Fodder Operations carried out during the season 1918-19.

### · RESUME OF THE ARRANGEMENTS FOR OBTAINING FODDER.

The rains of 1918 were very unfavourable and gave rise to a critical situation as regards fodder supply over the greater part of the Presidency, the situation was aggravated by the fact that there were no grass reserves in stock and military grass operations for overseas requirements and building up adequate military reserves had depleted stocks in hand with the larger grass dealers.

The worst affected areas were Kathiawar and Ahmedabad, Kaira, Broach and Panch Mahals districts in the Northern Division, Poona, Nasik and Ahmednagar districts in the Central Division and Bijapur in the Southern Division; all other districts were partially affected except the Konkan districts.

As early as August 1918, the Commissioner, Northern Division, urged that early arrangements should be made to despatch the 25 lakhs lbs. of grass reserve stored at Navapur to Guzerat. Under orders from Government, the Conservator of Forests, Central Circle, completed this despatching operation by 29th August 1918, sending 10 lakhs to Ahmedabad, 15 lakhs to Mehmedabad and 5 lakhs to Ranpur and at the same time the Government grass monopoly contractor in West Khandesh (Mr. V. P. Bhiladwalla) was called upon to supply the additional quantity of 225 lakhs due under his monopoly contract.

For supply to the Deccan districts Government had made arrangements with the Military Department to take over 10,000 tons of steam-baled hay stored at the Manmad Military Depôt and ordered the Conservator of Forests, Northern Circle, to take over this quantity and arrange for its distribution and despatch as ordered by Government. An Extra Assistant Conservator was appointed to supervise this work and started operations on 29th September 1918. In view of the serious position that had arisen, early in November, Government created the appointment of Controller of Famine Fodder for the Presidency to arrange for the collection and distribution of all supplies of fodder on Government account and to control the movement of privately owned grass from the restricted areas that had to be created so as to prevent profiteering in grass.

Allotments were made to the different districts under the instructions of the Commissioners who, from figures of supplies in sight determined the same in accordance with the severity of the scarcity in the different districts.

In the meantime the Conservators of Forests, Northern Circle, Central Circle, and Southern Circle, had started operations by giving out contracts for supply of fodder from forests, kurans and revenue waste lands and accordingly it was arranged between them and the Controller that they would carry on the contracts and deliver the baled grass on rail, the Controller being responsible for distribution. This arrangement as regards forest grass proved most convenient from every point of view.

. It was at once apparent from the magnitude of the area affected that supplies so far in sight were totally inadequate and accordingly Government authorized the Controller to call for tenders for the supply of up to 8 crores or more lbs. of grass hand-pressed or steam-baled F. O. R. at any railway station on the restricted areas subject to a maximum of Rs. 20 per 1,000 lbs. F. O. R. for hand-pressed bales. The contractors in the restricted area on the B. B. & C. I. Railway (from which most of the quantity called for was expected to come) practically ignored the call for tenders and only 65 lakhs of lbs. were tendered for from 'that source; their idea was that the maximum rate of Rs. 20 per 1,000 lbs. was too low and their intention was to cause Government to raise the rate by holding up supplies. Mr. V. P. Bhiladwalla came to the rescue with an offer of 225 lakhs of lbs. of hand-pressed bales at Rs. 20 per 1,000 lbs. F. O. R. and 400 lakhs of steam-baled grass at rates, which were afterwards approved by Government, provided he was given assistance by the Director of Civil Supplies and the Controller in procuring supplies and waggons. Had the contractors come forward in the first instance and tendered for 800 lakhs of lbs. of hand-pressed bales, it is doubtful if this quantity could ever have been moved over the B. B. & C. I. Railway without grave detriment to the operations of the Bombay Presidency Famine Relief Fund Committee, the Native States and other charitable institutions for the ratio of waggons required by steambaled hay to hand-pressed hay is as 1 to 4.

In addition to the above, Government made further representations to the Military Department and secured an extra 3,000 tons of steam-baled hay at Manmad and 10,000 tons of steam-baled hay at Bhusawal and some Military Hay Depôts in the Central Provinces.

By the above arrangements, about 1,900 lakhs of lbs. in all became available, the quantities and sources being as follows:-

•	Stear	n-baled	· So	ource of Su	pply.	Lo Depôts at Manmad	akhs of Ibs.	•
		"		»	uary 11a) "	at Bhusawal.	_ 300 80	
	•	с <b>н</b>		)1	н <b>н</b>	in the Central Provinces	•	•

By Departmental collection and through the agency of forest	
contractors in the three Circles of the Presidency	11.

Nort	h <mark>ern Cir</mark> cle	•	-	•		ikhs of Ibs
			• • •	• • •	•••	225
Cent	ral Circle	•••	•••	•••	•••	300
Sout	hern Circle	÷	•••	• • •	•••	001
Grass from :	forests in t	he Panc	h Mahals	•••	•••	25
11		West	t Nasik	•••	•••	to
	,,	Poor	a and Satara	• • •	•••	25
Contracts m	ade by the	e Contro	ller of Famine	Fodder	•••	685
					-	

At first though this amount of fodder was expected to be sufficient, the continued keen demands from Kathiawar, Guzerat, Poona and Nasik showed that further supplies were essential, and it was all-important that the special grass depôts should not be depleted before the end of the hot weather. As it was too late in the season for further Departmental collection of grass, the Controller had to make other arrangements as follows :--

Mr. Gilbert, Divisional Forest Officer, East Thana, arranged with contractors in Thana for the supply of 25 lakhs of lbs. and managed to secure the same at reasonable rates within the maximum allowed by Government; it may be noted here that grass from the Thana section on the G. I. P. Railway does not command the same price in the Bombay market as grass from the restricted area on the B. B. & C. I. Railway.

Mr. V. P. Bhiladwalla again came to the rescue with 43 lakhs of steam-pressed hay at rates sanctioned by Government.

25 lakhs of lbs. were purchased by the Controller direct from the Bombay Presidency Famine Relief Fund Committee through the kind offices of the Hon'ble Secretary and Treasurer of the Fund at Rs. 22 per 1,000 lbs.

The Controller was also able to arrange at the request of the Commissioner, N. D., for the supply of approximately 65 lakhs for sale at fixed prices in Ahmedabad City. He was also able to arrange for the supply of fodder from the Military Department to the Bombay Presidency Famine Relief Fund Committee and 4,256 tons were handed over in this way.

As the rains broke very fitfully and late in Kathiawar special steps had to be taken in June and July and the Controller with the approval of Government arranged for the supply of 26 lakhs from the VI Poona Division at Mahalakshmi godowns and  $8\frac{1}{2}$  lakhs of hand-pressed grass from Mr. V. P. Bhiladwalla, the Government grass contractor.

The above total was despatched to various centres in Kathiawar between 29th June and 22nd July, after which date all grass operations ceased and the Controller's appointment expired from 31st July.

#### II,-LABOUR AND TRANSPORT.

#### (a)—Labour.

In Northern and Central Circles difficulties were experienced in getting labourers in sufficient numbers for cutting the grass. This year influenza had taken a very heavy toll and was still raging as the season for cutting grass began, and the people were so weak as to be unable to do a full day's work. The difficulties of obtaining food too seemed likely to be acute. The effects of war entailing Munitions Work, high prices and labour scarcity were intensified by the extensive crop failure. The rise in fodder prices during the past five years added a special speculative element to all contract work to a degree previously uncontemplated. From contractors to coolies the greatest difficulty was found in obtaining satisfactory labour and except locally, even at very high prices, sufficient number was never obtainable.

For fodder operations in Belgaum district, local labour was insufficient, and cutters were imported from Bijapur and the Northern Talukas of Belgaum. At the commencement cutters were paid four annas per 100 lbs. This rate was raised to six annas and later on to eight annas. To assist in the pressing work Army Labour Corps Porters were brought down to Khanapur.

#### (b)—Transport.

Transport by rail over long leads involving diversion on to branch lines and often necessitating transhipment owing to break of gauge was accomplished with the loyal and zealous co-operation of the Railways concerned with the Controller and unremitting vigilance, promptitude of action and resourcefulness on their part. The task of rapid transport was surrounded with difficulties; apart from the congestion of the Railways with other important movements of traffic and the reduced rolling stock and engine power due to the effects of the war, a great part of the grass had to be put on rail in hand-pressed bales for conveyance to the nearest power press; there it was made up into compact steam-pressed bales in which form it was eventually sent off for the long journey to its ultimate destination. In one instance, to avoid the necessity of this troublesome double journey a large power press was moved bodily from Nandurbar to Navapur, an extremely difficult, lengthy and costly operation, which was successfully carried out and which was fully justified by results.

All the large stocks that were moved into Guzerat from Khandesh and the Central Provinces had to travel along the Tapti Valley Railway and there extreme shortage of water added to the difficulties of the situation.

From the moment the steam pressing of grass was brought into full working order and the accumulations of hand-pressed bales in the restricted areas on the B. B. & C. I. Railway were despatched, a large number of waggons were made available for private movements of grass and such movements were allowed on passes from the restricted areas into the several districts and Kathiawar.

This enabled Native States, the various charitable institutions and private cattle owners who were dealing with cattle maintenance to prosecute their operations with greater facility, and it is estimated that at least a quantity equal to that despatched under Government auspices was despatched by the above agencies.

In addition to the difficulties attending the transport and distribution of grass between the various centres, further difficulties arose owing to the ill-timed efforts of rioters who took advantage of the so-called Satyagraha movement and stopped all steam pressing of famine grass for one day at Surat and interrupted communications with North Guzerat and Kathiawar besides burning 3-4 lakhs of lbs. of grass at Viramgam Station.

As all distribution and movement of fodder was under the Controller, there was continual co-operation and consultation between him and the heads of the Departments of the Railways concerned with the result that movement of fodder took place very quickly and smoothly and when difficulty due to scarcity of water, of rolling stock, accidents, etc., arose, the same were soon smoothed over and the programmes worked up to. The actual quantity of fodder carried by the Railways was the highest on record, and it is a matter for congratulation that, although with so many difficulties to contend with, yet from the time the despatch of fodder was commenced, a continuous and regular supply of fodder was maintained to all parts of the Presidency requiring it so that sale depôts were never depleted and all grass baled was in the end despatched and delivered with the exception of 163 lakhs on the Madras and Southern Maratha Railway. For the above results the Railways have well merited the thanks of Government and the Controller begs to bring to the notice of Government the ever ready assistance and willing advice given by

- (i) Mr. I. W. Stokes, Deputy Traffic Manager, G. I. P. Railway.
- (ii) Mr. E. T. Robinson, Acting General Traffic Manager, B. B. & C. I. Railway.
- (iii) Mr. G. D. Moore, District Traffic Superintendent, No. 1 Section, B. B. & C. I. Railway, the hardest worked section on the line for carriage of famine fodder.
- (iv) Mr. Siewright, Acting Traffic Superintendent, B. B. & C. I. Railway, who during the famine was in charge of all branch railways and saw that transhipment was quickly and efficiently carried out.

#### III.—ARRANGEMENTS FOR BALING GRASS.

No difficulty was experienced in obtaining labour for baling grass. It was the case with the cutting as has already been recorded. The work was, however, delayed to some extent on account of—

- (i) the bad condition of the hand presses already in stock;
- (ii) the impossibility of buying new presses at once, since no firms in Bombay held them in stock ready made;
- (iii) the delay in getting the baling wire in sufficient quantity.

The Irani presses did not work satisfactorily and only a few Burn's presses from the Military Grass Farm could be obtained. These latter worked well though the bale (50 lbs.) was too small.

During the season under report the steam baling plants proved very successful. They were simple to work, required a small number of labourers and baled the grass expeditiously and in very compact bales, so that about the double the weight of grass could be loaded into a railway waggon as compared with hand-pressed grass.

Pressing work was started at Surat, Navsari and Ankleshwar in the cotton presses with hand or hydraulic pressed grass railed down from Khandesh and from Bhilad, Daman, etc., stations on the B. B. & C. I. Railway. As the cotton presses had to work night and day many a time the working parts went out of order and work had then to be stopped till repairs were effected. As the Controller had given large contracts for grass from elsewhere and it was in the general interest that the Surat press should be kept for the latter, and some other press should be engaged for the Khandesh grass, the Government grass contractor, Mr. Bhiladwalla, accordingly hired a press at Nandurbar and commenced pressing there in the third week of January. It had been anticipated that the Navapur press would be in working order within about three months from the date on which orders to move it from Nandurbar were given, *i.e.*, by at least the end of December. Though work went on night and day and every possible effort was made, many unforeseen difficulties cropped up, and it was not till February 11th that the first bale was turned out after which the average daily outturn which was required to cope with the amount of grass to be pressed was steadily main and, and the same may be said of the Nandurbar press. The hydraulic press at Chinchpada was in working order and the hydraulic pressed bales were used to feed the steam presses at Navapur and Surat. By the end of May the work at Navapur was finished, while at Nandurbar the work was finished on the 2nd June. At one time on account of scarcity of water at Surat, the press could not be kept going for more than 8 hours at a time; this matter was however set right by approaching the Municipal authorities there through the three presses Surat, Navasari and Ankleshwar was finished in the first week of June. The Government contractor, Mr. Bhiladwalla, deserves recognition for the efficient manner in which these presses were kept working day and night to complete the full contract; he never spared himself, and, no matter at what cost, had repairs, when necessary, completed as soon as possible. His untiring energy, loyal assistance, and full co-operation, rendered these operations a success.

In the case of Khandesh contract, wire was obtained at enormous cost and even then not of the gauge required; for steam pressing finer wire twisted doubly or trebly had to be used instead, the quantity and cost being thereby greatly increased. All wire was supplied by Government and was obtained, some through the Munitions Board, some by purchase in the open market. In the case of Thana forest contracts all wire was used by the respective contractors. Only in the case of Controller's contract in East Thana and in areas on the B. B. & C. I. Railway line, wire was supplied by Government and was obtained from the Manager, Military Grass Farm, Bombay, at cost price.

IV. TOTAL COLLECTION OF GRASS FROM ALL SOURCES AND ITS DISTRIBUTION.

The total quantity of baled grass despatched in the famine fodder operations of 1918-19 and its sources of supply were as follows :---

	ίν.	Sou	rces of sup	piy.		•
	From the forests o	f the Nortl	hern Circle	•••	•••	Quantity in lbs. 2,33,93,465
	Do.		ral Circle			3,00,00,180
	Do.	the South	nern Circle		i	69,01,025
••••	From the Military	Departmen	n <b>t</b>	141	•••	6,27,06,345
. 4	From the sources	under Con	atroller's c	ontracts in T	hana	
•	and West Khan					7,78,27,013
	Supplied by the'D	ivisional F	orest Offic	er, Panch Mah	als	27,00,000
-	Do.	do.	do.	West Nasik		9,50,000
	Do.	do.	do.	Poona and Sa	tara.	26,50,000
	Do.	do.	do.	Belgaum		39,50,000
-		٠ •	•	Tota	1	21,10,78,028

Saundan of such sta

10001 ... 21,10,70

The whole of the above grass was distributed as under :---

• \*

· · · · ·	Supp	lied to				
	,		· ·	•	Lakhs of lbs.	, ·
Ahmedabad	1		•••		- 368 <del>1</del>	
- Broach					1932	
Kaira -		• • •		•••	. 401 <del>1</del> '	-
Panch Mahals		•••			111	
Kathiawar		***			244	•
Rajpur Taluka				· · · ·	4	
Palanpur	•••				1	
• Mahikantha					1	
Ahmednagar -				· · ·	1817	
- East Khandesh				- 1	14	
West Khandesh					251	•
Nasik					115	
Poona					209 <del>1</del>	
Satara					63	•
Sholapur					101	
Akalkot State	.10				1	
Belgaum ·		· · · · ·	•••		. 31	
Bilaput		•••	éa.		25	
Bijapur Dharwar		•••		•••	- 6	
Dharwar		···· ·	•••			
• -	Police	Departm	ent.			
' East Khandesh					1	
-West Khandesh					1	
Nasik			,		1	
110310						

•	•			1	Lakns of ibs
Local supply i	n				
Panch M	ah <b>al</b> s				27
Nasik			• • •	•••	9 261
Poona an	d Satara		• • •		20
Belgaum				•••	15
Do.	removed free		•••	•••	16] 16]
Do.	destroyed by fir	e and rains		•••	16
			Grand Total	•••	2,110

A general summary of the operations in each of the Forest Circles is given below :---

#### Northern Circle.

In all 2914 lakhs of grass were collected and despatched. This total quantity of grass supplied by the Northern Circle includes 21,02,000 lbs. which were supplied to the Military Department and despatched to Deolali on behalf of the Military Grass Farm. Of the total quantity (2704) 26,95,000 lbs. were collected in the Panch Mahals Division and 9,30,000 lbs. were collected in the West Nasik Division and supplied locally (not on rail).

The collections made in the different Forest Divisions were as follows :----

Name of Di	vision.				
				ι	akhs of Ibs.
North Than <b>a</b>				•••	57
West Thana	•••	••••	***	•••	361
East Thana	•••	1.44	•••	•••	1081
Surat	•	•••	• • •	•••	53
West Nasik	•••			•••	91
Panch Mahals	•••	* * *	- • •		27
			Tota		
			1014	1	291

The distribution of the grass from the Northern Circle was as follows :-

Supplied to.

- - - - -

Supplied to.

				L	akhs of lbs.
Poona		•••			211
Nasik		•••	•••	•••	105
Kair <b>a</b>				•••	88 <u>1</u>
Broach					161
Ahmedabad			•••		71
Panch Mahals			•••	•••	301
Military Depart	ment				21
•					
			Tot	al	2912

The results of the fodder operations were very satisfactory.

"It was impossible to put temporary staff in charge of Departmental operations, excepting re-employment of qualified pensioners and the like. It would be logical to charge the grass with a portion of the pay of the permanent staff, but that would be very difficult to estimate. Nevertheless, the forests deserve to be credited with a large sum for lost services of its staff as employed on other work, which is a very unsatisfactory and expensive procedure. Even without such charge it will be seen that Departmental operations per thousand pounds F.O.R. were as Rs. 11-10-4 to 11-2-7 by contract agency, thus accentuating the important conclusion arrived at in the Circle Report for 1912-13 (when the actual recorded cost of Departmental to contract agency was as Rs. 7-8 to 8-3-5), viz., that, in spite of final figures, Departmental agency is the more expensive.

"It must therefore be accepted as a fundamental axiom that unless additional establishment can be made readily available without interfering with forest routine work, Departmental fodder operations are only justified in case of the most extreme necessity involving impossibility of contract work. To meet the argument that contract agency is always obtainable 'at a price' the writer, with experience of fodder operations from the time they were first attempted (viz. in 1899-oo when the amount of contract work was negligible), would state as his opinion that, to justify Departmental operations, the savings on the contract figure must be 50 per cent., and then only in extreme necessity. For example, if contract working threatens to be Rs. 15 per thousand only be attempted under extreme pressure of fodder requirement, which, under the storage system, should never arise.

Lakhs of lbs.

"The total grass collected was 292 lakhs as against 354 lakhs in 1912-13. The shortage was due to a poorer crop rainfall, which nearly resulted in no grass in Panch Mahals. Actually the shortage in that district was only 10 lakhs, and a somewhat better control might have reduced this. In the remaining area the crop was poorer than in 1912-13, and influenza greatly delayed and handicapped results so that North Thana would have been 36 lakhs short but, being given the revenue kurans yielding 26 lakhs, it was only 10 lakhs down. Owing to re-organization of charges the old Central and South Thana must be compared together with the present East and West Thanas in which, thanks largely to Mr. Gilbert's efforts, the shortage was only 16 lakhs. The inclusion of Nasik within the Circle instead of Kolaba yielded 9 lakhs instead of 34 lakhs or 25 lakhs short.

"Though prompt arrangements secured sufficient presses, wire, weighing machines, tools, stationery and the like, the absence of ordinary sources of supply and necessary control of factories and stocks, only yielded requirements as the result of considerable efforts in every case. The shortage of wagons and difficulties of despatch, though existing, were greatly reduced by the special appointment of the Fodder Controller who, fortified by co-operation of the Railway, relieved the Department of excessive anxieties in these matters.

"The heaviest share fell to Mr. C. E. L. Gilbert who with former experience carried it through in a masterly manner. Of other officers, Mr. K. B. Kotwal, Sub-Divisional Forest Officer, Surat, had a strenuous time and acquitted himself well. Mr. D. M. Bijur did well with the advantage of having only that work and considerable facilities in advice and arrangements.

#### Central Circle.

The total amount actually obtained was 300 lakhs. Similarly the supplies made by the Divisional Forest Officers, Poona and Satara, of about 12 lakhs lbs. and 16 lakhs lbs. respectively for local consumption and were arranged at the instance of the Collectors. These limited supplies were due partly for the reason that the forests had been heavily grazed by cattle from the Eastern Talukas during the monsoon months, partly because little, if any, private grass was brought to the depots for the owners found they could obtain by sale to the public a far more remunerative price than the Forest Department could afford to pay.

The collection of grass in the Central Circle was obtained from the different sources as follow:---

Source.	·	Loose grass.	Baled grass
 Bhiladwala's contract—	-	Lakhs lbs.	Lakhs lbs
Chinchpada Hydraulic press Nandurbar and Navapur Ste	ed am baled.	*****	15 285
Departmental collection—	, trate and	-	
Poona Satara	•••	12 16	
· · · · · · · · · · · · · · · · · · ·	Fotal	28	300

The distribution of this grass was as follows taken in round figures :----

<ul> <li>Supplied to.</li> </ul>			•		
		· · · ·		-	Lakhs lbs.
Ahmedabad	•••			•••	· 1191
Broach	• • •	· • • •	•••	•.•	28 <del>1</del>
Kaira .			•••	•••	43_
Panch Mahals	•••	***		.***	24 <del>3</del>
Kathiawar		•••		•••	113
Rajpur Taluka		•••		•••	$2\frac{1}{2}$
Palanpur		•••			1
Mahikantha				***	ŧ
Ahmednagar	•••			•••	71
East Khandesh	•••	•••		· ···	9_
West Khandesh	`	•••		•••	151
Poona				***	26 <del>]</del>
Satara .		•••		***	10
Nasik Police		•••	•••		7
			_	_ /	_ ——
	. •		T	otal	300

Mr. Napier, the late Conservator of Forests, Central Circle, who directed the grass operations up to the end of March and Mr. Dodgson, the present Conservator, have submitted the following remarks which are of interest.

"In West Khandesh, though the rains had been a failure in many talukas, yet it was known that there were immense supplies of grass available in the Satpuda forests and in forests in the west of the district, which were outside the scope of the contract operations. The habits of the people too in the matter of travelling long distances to cut grass were the same as in East Khandesh which would solve any local difficulties, while departmental work for export was out of the question owing to distances and want of presses. It was decided therefore not to undertake operations in either district.

"Poona and Satara would, it was certain, both be in need of imports of fodder, and it had to be considered what local additions the forests could contribute to their supply. The only sources from which grass could be expected in any quantity were the Ghat regions, and even here not only had the rains been a failure but the grass had been mostly consumed by cattle sent from the eastern talukas for grazing. Baling was impossible owing to lack of presses, and it was decided that all that the Forest Department could do was to cut and store loose grass at various convenient spots at which it could be sold retail to purchasers approved by Collectors.

"The Circle operations accordingly resolved themselves into:---

(a) Collection of baled grass by contract in West Khandesh for export.

(b) Departmental cutting, collection and sale of loose grass for local supply in Poona and Satara. Under Poona are included two forest ranges in the Nagar district, but forming part of the Poona Forest Division.

#### Collection of grass.

At the outset it was feared that there would be great difficulty in collectiong the full quantity of 225 lakhs. Not only did the grass crop appear to be small, but the contract area had, during the 7 years currency of the contract, been reduced by some 10,000 acres. of the best and most accessible grass lands by the gradual spread of cultivation. To make good any possible dificit, forest and waste lands in the adjoining Nandurbar taluka (the contract area extended over the Nawapur Petha alone), were assigned to the contractor, and that the fear of a dificit was not unfounded is proved by the fact that the actual contract area yielded some 200 lakhs only, while the freshly assigned areas made up another 100 lakhs. These fresh areas had as a matter of fact been worked by the department in the previous famine, and also in the Army operations of 1917-18 when a total amount of 224 was collected with difficulty; there was therefore nothing novel in their being again worked, but the Conservator's action evoked some criticisms on the grounds that in a famine year when the grass was required in the district itself, it was wrong that the people of Nandurbar taluka should not be able to obtain supplies from the areas most conveniently situated for them. Had there been no other supplies available within the district, and it has been shown above that there were, and had not the famine been so universal that Government had appointed a Controller to regulate the distribution of grass to every district according to the urgency of their respective needs and of the total quantity of grass available, there might have been some force in the criticism, but circumstances being as they were, it certainly seems better that every available pound of grass should have been collected by Government agency from all areas which could be worked for export even if by so doing some inhabitants of the district were forced to fetch their supplies from areas less convenient to them, but containing an abundance of grass which could be extracted in no other way.

"Labour was the second point which caused anxiety. The outlook was not promising, but Mr. Bhiladwalla faced it with his accustomed energy and determination to fulfil his obligations to Government in full; by liberal rates for work, by importing food grains and making payment in kind instead of in cash, by provision at his own cost of medicines to the Government dispensary, he overcame all difficulties and got grass brought to the depôts in greater quantities than had ever been known in previous years. As the season wore on he increased his rates, he opened cheap grain shops, with the most satisfactory result that he finally collected 300 lakhs lbs. instead of 225. Under the combination of this energy and the fact that the crops in the neighbourhood failed, and the demand for field labour was small, any fears as to a storage in collection were dissipated.

"To sum up then the work of collection in Khandesh it may be recorded that it came to an end, so far as operations on behalf of Government were concerned, with a total of 305 lakhs lbs. by the end of January. Even then villagers clamoured to be allowed to bring had so deteriorated that much rejection was inevitable. Incidentally it may be mentioned that the contractor's operations put some 11 lakhs of rupees in wages into the small area covered by his work, while by the same date the end of January some 500 lakhs lbs. of grass areas untouched by the contract operations; the latter point affording clear proof that no hardship was caused by the inclusion of the Nandurbar areas referred to above.

#### Pressing

Mr. Bhiladwalla started work at Surat with hand or hydraulic pressed grass railed down from Khandesh, and by 25th January had despatched to Gujerath 28,21,250 lbs. in steam pressed bales of 250 lbs. each. Work then stopped at this press, for some time but a weck's work was done in March and the final quantity despatched from Surat was 29,40,750 lbs. The Controller had given large contracts for grass from elsewhere and it was in the general interest that the Surat press should be kept for the latter, and that some other press should be engaged for the Khandesh grass. Mr. Bhiladwalla accordingly hired a press at Nandurbar, and commenced pressing there in the third week in January. It had been anticipated that the Nawapur press would be in working order within about three months from the date on which orders to move it from Nandurbar were given, *i.e.*, by at latest the end of December. Though work went on night and day and every possible effort was made, many unforeseen difficulties cropped up, and it was not till February 11th that the first bale was turned out, after which the daily average outturn which was required to cope with the amount of grass to be pressed was steadily maintained, and the same may be said of the Nandurbar press.

#### General.

"Mr. Dodgson found on taking charge that the work was proceeding quite automatically, and had merely to be carried to a finish. Mr. Napier brought his experience gained in past years of Fodder scarcity to bear on the situation with the result that the difficulties which cropped up were met almost as soon as they appeared and he was able to deal with the situation most successfully.

"The Ranger of the Patan Range (Mr. D. V. Patak) did praiseworthy work.

"The local organization for the collection of labour and supervision of pressing and despatch of the grass was entrusted to Mr. R. A. Shirali, Sub-Divisional Forest Officer, West Khandesh, in addition to his Sub-Divisional duties. He worked with great energy and tact and the timely supply of grass to the famine affected areas was in a large measure due to his untiring energy. The mainstay and pivot of the whole grass operation was undoubtedly the grass-contractor (Mr. V. P. Bhiladwalla). Some idea of his method of working is given above and I can only add that he met and overcame every difficulty which cropped up (and they were fairly numerous and serious) in his own inimitable way.

"The tact and business ability of the contractor worked wonders and his highly creditable work deserves favourable recognition by Government."

#### Southern Circle.

The operations in this Circle were on a relatively small scale. The first arrangement was for the collection of lakhs lbs. of grass only. Afterwards it was amended to the collection of the greatest quantity available. The operations were carried on departmentally and 108½ lakhs of loose grass were brought in from which 91½ lakhs lbs. (approximately) of baled grass were obtained. The total output for the Southern Circle was as under :---

	Division. Belgaum	• • • •	•••	, - •••		Lakhs lbs.
. •	Kanara-	•			•	-
. 1	Eastern			•••	•••	481
	Northern		•••		•••	5
	Western		• ••• ·		•••	51
	·			۰.	•	
	· · · ·	. •	• • • • •	'Total		167
•	•••	. /		-		

The Belgaum forest grass was distributed as follows :---

Peona	•••	• • •			lakhs 4
Satara		•••			14
Dharwar			. · · · · · · · · · · · · · · · · · · ·	· · · ·	2
Bijapur	•••	• • •		<b>,</b> '	18
Belgaum	, •••				31
Sold locally				•••	10

		1	Loose grass lakhs lbs.
Sold to villagers Cut and removed free by villagers Do. by Contractors Destroyed by fire and rains	· · · · · · · · · · · · · · · · · · ·	••••	4 <sup>9</sup> 54 3 131
	Total		26]

Note .- The difference between amount collected and that distributed represents wastage.

Of the total quantity of grass 5,52,000 lbs, collected in N. D. Kanara, 4,46,200 were supplied to Bijapur and Haveri (part used for thatching huts), 76,400 lbs, were sold to villagers and 29,400 lbs. were decayed.

Of the total quantity 4,844,000 lbs. collected in E. D. Kanara, 4,500,000 lbs. were cut and removed free by villagers, 5,00,000 lbs. by forest contractors: 84,000 lbs. were sent to Haveri, about 90,000 to Bijapur and 1,70,000 lbs. used for thatching, feeding Government cattle, etc.

Of the total quantity 5,24,075 lbs. Shedbal was supplied with about 1,75,000 lbs, and Bijapur with the balance.

The Conservator, Southern Circle, makes the following remarks on the famine fodder operations in the Southern Circle:-

" The operations are unsatisfactory for the following reasons:-

(a) The grass is of poor quality and cannot be compared with the grass obtainable in the Northern and Central Circle.

(b) Labour is expensive and very difficult to get.

(c) The single meter gauge line has poor carrying capacity and in the case of supply to Bijapur freight is very heavy.

(d) Cattle of the Deccan country, Bijapur and Dharwar districts and in Athani (Belgaum district) do not do well on the fodder brought from the jungles of Khanapur and Kanara.

The best fodder is found in Belgaum Taluka and along the Dharwar-Kanara border in Dharwar, Kalghatgi Talukas and Mundgod Peta. Practically all of this could be cut and removed by the ryots themselves.

Owing to the damp climate of Kanara and Khanapur and not infrequent showers in the cold weather much grass cut departmentally is ruined.

On the whole Government famine fodder operations in the Southern Circle give little relief and are not worth the expense and trouble. The Dharwar ryots could remove the best of the grass themselves and Bijapur should be made self supporting by storing Kadbi and by making use of the large supply of prickly pear found round many of the villages. This natural supply was apparently not made use of in Bijapur."

#### V.-FINANCIAL RESULTS.

The financial results of the operations cannot be stated accurately but they are estimated to be as follows :---

#### Revenue.

	•		. •		۰.	Rs.
Receipts by bo	ok transfers	at the r	ate of R	ls. 15	per	
1,000 lbs. of	grass suppli	ed	***			31,29;375
Miscellaneous r	evenue		•••	•	•••	1,74,546
•	•					

### Total ...

33,03,921

Expenditure.

Sources of supply.		Cost of collection or purchase, supervision, etc. Rs.
Northern Circle Central Circle Southern Circle Controller of Famine Fodder	•••• ••• •••	4,80,292 7,48,254 43,965 36,29,195
	Total	49,01,706

Note.—The above figures do not contain the railway freight charges, since they were adjusted in the Accountant General's office through exchange accounts.

### VI.—APPRECIATION OF THE SERVICES OF OFFICERS.

The Controller begs to express his grateful appreciation of the assistance rendered by Messrs. C. E. L. Gilbert and J. Hamilton, Divisional Forest Officers of East Thana and North Thana respectively, in keeping forest contractors up to their work, thereby enabling programmes of despatches to be carried out without complaint on the part of the Railways; Mr. Gilbert was also instrumental in securing extra quantities of fodder for Controller's contracts to meet the heavy demands from the Deccan districts.

In the Southern Circle, Mr. E. M. Hodgson and Mr. R. P. Dalley conducted the fodder work with great thoroughness and their operations though on a limited scale were very successful. 43

Of the officers who worked under the direct control of the Controller

Mr. D. B. Sothers, Deputy Conservator of Forests, was put in charge of loading

operations in the restricted area on the B. B. & C. I. Railway, his exertions were of great value in that proper loading of wagons was insisted on and much Railway freight saved thereby.

Mr. D. M. Bijur, retired E. A. C., and Mese-V. G. Bhalerao, Subtheir respective charg

2. Divekar, K. B. Kotwal and Officers, did good work in

Mr. R. K. Joshi, Head Clerk in the Contrc -, distinguished himself by his devotion to duty and the masterful manner in which all statistics and account work in connection with the whole operations were kept up to date.

Bombay. 9th April 1920.

D. A. THOMSON,

for Chief Conservator of Forests, Bombay Presidency.

#### APPENDIX 12.

#### (Referred to in paragraph 33 of the Resolution.)

#### Fodder experiments by the Agricultural Department.

7. But all efforts devoted to production of larger quantities of food than usual were soon diverted to the production of food and fodder crops in sufficient quantity to keep men and animals alive, as a result of the long continued drought. By the middle of July the situation on account of failure of the monsoon became threatening and by the end of August it became evident that the kharif crop had failed over a great part of the area. Everything then depended on the arrival of the September and October rains in good amount. These fuled, however, almost everywhere, and it became evident that a serious famine must result. Except in lower Gujarat, and to a less extent in Khandesh and in Sholapur, the season was unsatisfactory, and it was clear that the other activities of the department must be considered as secondary, and all possible strength concentrated in doing what lay in its power to meet the situation. Almost all the officers of the department fully realised this and devoted themselves heart and soul to carrying out the lines of work decided upon.

8. The first of these lines of work was to lend out all the pumps and engines belonging to the department for irrigation purposes for growing fodder crops, and to arrange as far as possible, that existing installations were fully utilized. Beyond this, Government made a special grant of Rs. 92,434 for the purchase of additional pumping sets for famine purpose and for working of all the pumping sets and made provision (Rs. 1,12,963) for four special installations respectively in the Narbada (two installations), Godavari and Krishna Rivers to be worked by the agricultural department on a system of sharing the folder produce with the cultivators. The Nangaon plant (Poona District) which has been rather a white elephant for some years) was this season worked day and night and irrigated 411 acres. The pumping installations managed by the department through the famine numbered twenty and were as follows :-

- Shiroli, Khed, Poona. Ι.
- Bhambora, Karjat, Ahmednagar. Nangaon, Dhond, Poona. 2.
- 3.
- Agarkhed, Indi, Bijapur. 4.
- (Bhide) Vadgaon, Haveli, Poona. 5. 6. (Athavale) Bibyachiwadi, Haveli,
- Poona.
- 7. 8.
- Modibag, Bhamburda, Poona. Dapuri, Haveli, Poona.
- Chinchwad, Haveli, Poona. q.
- Malegaon, Nasik. 10.

- 11. Nasrapur, Poona.
- Patas, Poona. 12.
- Manjri, Haveli, Poona. 13.
- Rajewadi, Bhor, Satara. 14.
- 15. Umbergaon, Thana. 16. Hiroj, Sholapur.
- Retra, Karhad, Satara. 17.
- 18. Gondegaon, Niphad, Nasik.
- Zadeshwar, Broach. 19.
- 20. Nikora, Broach.

On the whole about two thousand acres of fodder crops were irrigated and produced about two crores of pounds of green fodder which would not otherwise have existed or enough to keep seven or eight thousand head of cattle through the whole of the famine. The disappointing thing about a number of these pumping installations was the unreadiness of the cultivators to take full advantage of the water when available. Some sets of plant (as for instance at Bhambora on the Bhima in the Ahmednagar District) worked to far less than their full capacity. This is probably due largely to the unusualness of the offer made, and I anticipate that when a famine occurs again and the same facilities are available, every drop of water that can be used will be employed for irrigation. The exact cost of green fodder produced is available on four of these pumping installations and is as follows excluding the cost of the engines, interest and depreciation.

Place installed.	Yield per acre of green fodder.	Cost for per 1,000	pum lbs, f		* Total cos lbs, fo	st per odder.		Total co lbs. of C share	lover	nment
Broach (Narbada) Nikora (Narbada) Gondegaon (Godavari) . Retra (Krishna)	9,166	Rs. 3 10 1 9	a. 11 2 7 9	р. о о о	Rs. 10 17 5 15	a. 1 9 7 4	р. о о о	Rs. 15 35 10 30	a. 2 2 14 8	р. о о о

At Retra and to a less extent, at Nikora, the engines employed, brought in a hurry, were not very efficient, but taking the other cases the cost of pumping was very low. This experiment shows what can be done even in an emergency. The weak point was that at the beginning of the famine suitable sites for pumping were not known to anyone, the matter was rushed on the cultivators in a hurry and that the machinery had to be purchased when prices were very high indeed and when all available was second hand. If only a regular survey of the rivers is made and suitable sites fixed beforehand, the cultivators educated to the use of water and to the arrangements which would be proposed, and engines and pumps rushed to those spots in November of a famine year, instead of in February, March and April as in the past season, the success of the method of producing large quantities of the best type of cheap fodder would be assured. Under these circumstances two crops could be produced between November and the following June and would be invaluable.

c. The second line of work, on which attention was concentrated on famine account, was that of shallow boring. All the boring machines belonging to department even though they were old and had previously been almost scrapped were got out and concentrated as far as possible in those famine districts where bores have given the best results in supplementing the water-supply in wells. It may at once be said that up to the present in all our experience the best results have been obtained in Upper Gujarat and in the Thana District. In the Deccan and Karnatak while water sufficient for domestic purposes can generally be obtained on a well selected site, the amount tapped by boring to greater depth than those reached by an ordinary well is not usually sufficient for irrigation. For the reason the machines were concentrated during the famine in the districts where it was practically certain that water could be obtained. Two hundred and thirty-nine bores were made during the year. Of these one hundred gallons per hour in sand or two hundred gallons per hour in rock boring have been yielded by the bore. Of the bores completed, 856 per cent. were successful in Gujarat, and 89 per cent. in Thana. No boring was done in Sind, owing to the necessity of concentration in the famine areas. The 156 successful bores yielded an aggregate of 3,35,000 gallons of water per hour from the bore in the dry season, or enough to irrigate between five and six hundred acres of fodder crops through the hot weather. The average yield of water for each successful bore is shown below:—

	• · -			Yield p	er su	ccessful bore	8.
	Upper Gujarat	 		2,778	gallo	ns per ho	our.
	Thana	 f	***	1,577		·	• • • • •
-	Kolaba	 · ··· .		1,475	<i>"</i>		•
	Ratnagiri	 •••		747			
	Dharwar ·	 		252			. ,
	Bijapur	 		600			
	Belgaum	 *******	•••	250		1 ( <b>1)</b>	· .

The value of boring for agricultural purposes thus differs widely in the different parts of the Presidency, and it is only occasionally that one of the shallow bores (to 200 feet) that we make gives an amount of water of real value for agriculture in the Deccan or Karnatak.

10. The recent famine has been pre-eminently a famine of fodder and hence it was quickly obvious that any new and unusual resources in the way of fodder should be utilisedas far as possible. The most important of these was prickly pear, which had been used as fodder at Dhond for a number of years by Rev. A. Norton and had been successfully fed to animals on a large scale in the Ahmednagar Famine of 1912. Based on that experience, and on the careful results recorded at that time by Mr. Horne (Bulletin of the Bombay Department of Agriculture, No. 58 of 1913) the Collector of Ahmednagar and the Revenue Officers in Poona commenced using the fodder in large quantities. The real success of its use in the present famine has however depended on the abandonment of any kind of lamp for burning the thorn from the fodder and the substitution of the ordinary blacksmith's forge into general use in the succeeding months. The new fodder was at first unpopular and

• This excludes the cost of land and labour which the cultivators gave in exchange for one-third or one-half of the crop in different cases.

rightly so, for if not used with care, the animals are injured and die. But with greater experience, these difficulties were overcome and at one time there were 40,000 cattle living on prickly pear in the Ahmednagar District alone. At the end it became so popular that if a forge for the preparation of the fodder were put down in a famine tract, a demand for thousands of pounds per day would rise at once, as we found that it could be prepared and sold at five annas per one hundred pounds. Much help was given throughout to district officers by supplying burning apparatus, by keeping it in repair, and by keeping for three months a continuous training school for men intended to prepare the prickly pear for use. The whole experience as regards prickly pear as a fodder is being put together as a bulletin of the agricultural department and will shortly be issued. In Gujarat the fodder supply was supplemented by 17 lakhs lbs. of goed fodder much better than the coarse forest grass, by the chaffing of jowar stubbles left in the fields in the coast talukas of the Surat District which would otherwise have been wasted. The stubbles were chaffed by power chaffcutters set up at four places on the Railway line and sent to other parts of Gujarat. The scheme sanctioned for the purpose by Government proved successful but owing to long railway transport and heavy packing charges of double gunny bags on account of the voluminous nature of the fodder it did not pay its way.

Many other unusual fodders were used by the people during the recent famine as has always been the case in similar visitation. It would require almost a book to give even a list of these, but among new materials I may mention the very successful use of the sliced stalks of the plantain (Banana) plant, which have been fed to buffaloes and bullocks with great success, up to an amount of 35 pounds per day per head.

11. The next line of famine activity was the extensive stimulation of the production of fodder during the famine. The various Collectors at my suggestion, gave special facilities for the cultivation of river beds where the moisture was sufficient to produce a fodder crop. Large quantities of fodder seed for use in the cold and hot weather, chiefly maize, sundhia jowar, hundi and kalbondi jowar, etc., were purchased and distributed to cultivators with wells. The sale was made much easier by concession of 25 per cent. of the price given by the Bombay Famine Relief Committee for seed purchased through the Agricultural Department. No less than 68,500 pounds of such seed were distributed in the Central Division and 1,66,000 pounds in Gujarat. In many of our districts the activities so far described absorbed almost the whole of the time and energy of the district staff.

12. In spite of all that was being done to save cattle, it became evident that there were a large number of good cattle, which would die if they were not actually purchased from the cultivators, kept during the famine, and resold after the famine was over. In order to see whether it was possible to save these cattle without serious financial loss an experiment was carried out under Professor Knight, to purchase such cattle outright, keep them in camps and sell them when fodder again became available. 1,046 cattle were purchased in a starving condition. Many of them could hardly walk. These were restored to health and condition, being fed after the first few days on a ration consisting of 80 per cent. of prickly pear, a little dry fodder, and a small quantity of cotton seed. They have now all been sold to cultivators and no loss is anticipated to Government on the whole scheme.

13. In the early stages of the famine it became probable that when the rains came a serious shortage of certain kinds of seed would occur, and in some cases it seemed likely that valuable strains of seed would die out, particularly of rice, bajri, jowar, wheat, potatoes, etc., Government made therefore special grants amounting in all to Rs. 1,66,000 for the purchase and storage of such seed. These stores have formed a most valuable resource, and will be wholly distributed in the present *Kharif* and *Rabi* seasons. I must particularly call attention to the value of the work in the case of potatoes, where about two-thirds of the acreage grown in the Poona District in the Kharif season of 1919 has been planted with seed stored by the Agricultural Department; otherwise the crop (as the same variety cannot now be imported from Italy) would almost have disappeared.

14. In order to make cultivation possible in the absence of cattle, the steam plough belonging to the Agricultural Department was made available in the Ahmednagar District during April and May, but was not much welcomed by the cultivators as an implement for ordinary cultivation. A Moghul tractor was also purchased, and did good work on a limited scale. In anticipation of a serious difficulty in getting the land cultivated in the Kharif season, a large number of implements to be worked by hand, on the lines of those suggested by Mr. Mollison after the last big famine, were prepared and their use extensively demonstrated in the famine districts, before the beginning of the monsoon. They were not however widely adopted and on the whole, it is astonishing how, in spite of the very great mortality among cattle, the cultivators have been able to get their crops into the ground this year with comparatively little delay.

15. On the whole, the experience of the recent famine indicates what a great deal can be done on the agricultural side both before the famine and in its early stages to minimise the very great loss of cattle, and to increase production in spite of the long drought. This year we were largely unprepared but it is hoped that measures may be taken in the immediate future which will not only mitigate the effects of a famine, but also enable us to utilize the small amount of rain that falls in a famine year to much greater advantage than is done at present.

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#### APPENDIX 14.

#### (Referred to in paragraph 35 of the Report) Note on the Cattle Census of 1919-20.

Till the year 1901-02 cattle censuses were held every year, but the labour involved was considerable and the value of necessarily rough statistics taken at such short intervals did not justify the expenditure they entailed. The censuses were therefore made quinquennial. The figures for the previous censuses can be found in the annual Season and Crop reports of the Agricultural Department.

2. The present census was taken in a year of severe fodder famine and possesses special interest. The appended statement A shows the variations in the numbers of plough cattle, milch cattle, young stock and total cattle in the Presidency proper for a series of years since 1895-96 and covers the disastrous famine of *samvat* 1956 (1899) which is still remembered by all in Gujarat who were then alive as Chhapanio. The number of cattle in this year (1895-96) may be considered as normal and as is shown in the statement it took till 1915-16 for the countryside to recover from the enormous loss of live stock in this one fatal year, when as Mr. Mollison phrased it the rabari's song had become a dirge. It is even now questionable whether, in spite of Government's efforts to preserve the high quality of the famous Kankreji stock, the magnificent cattle of Gujarat have ever fully recovered from the blow. The record since 1901-02 has been one of steady increase, and, in spite of minor and local famines, by 1915-16 the standard of 1895-96 had been reached and in some cases passed. The number of plough and of milch cattle had returned about exactly to the normal, while the young stock foreshadowed an increase beyond it. Horses had never recovered the famine loss, though they were gradually doing so. The variation in sheep and goats is extraordinary, and it is difficult to account for it.

3. Since 1915-16 there has occurred the famine of 1918-19, certainly the most widely generalised since that of 1899-1900 and perhaps more so even than the latter. This famine, from a fodder point of view, broke only six months before the present census was taken. A comparison of the number of livestock with the figures of 1895-96 (the normal) and with 1915-16 (the latest pre-famine census) is interesting :-

	-		•	· · ·	Increase (+) or decrease (-) in 1901-02 on 1895-56.	lacresse (+) or decrease (-) in 1919-20 on 1895-96.	Increase (+) or decrease (-) in 1919-20 on 1915-16.
				•	Per cent.	Per cent.	Per cent.
Elough cattle	•••				- 22	- 5.00	60
Breeding bulls					- 38	+ 38 0	+ 20'8
Cattle for other purp	oses	•••	•••		- 47	-174	+ 10.4
flilch cattle			•••		- 36	- 11.3	- 12.0
Young stock			•••	]	-35	-3.1	- 17.7
Total cattle	•••	۰		·	- 31	-69	- 11.2
Horses and ponies	•••		•••		-46	- 17'3	-+1.0
Sheep	• •••	•••	. •••		- 21	- 21.8	-15'4
Goats	•••	***	-		+ 22	- 12 1	- 38.3

4. The salient feature of these figures is the very much smaller loss of cattle than in previous famines, the total being 111 per cent. as compared with 31 per cent. in 1901-02. The loss is sufficiently serious, but it is an enormous improvement on the past. Naturally the loss was greatest (17.7 per cent.) among the young stock, which means that recovery is likely to be slow. Then comes the loss in cows (12.9 per cent). The loss of plough cattle animals. It must always be remembered however means an actual net loss of 1,93,478 the total loss reported in any famine, and in the Deccan in particular more cattle are kept in a normal year than are actually needed for agricultural operations. The loss of

5. Horses and ponies were not appreciably reduced by the famine, though the rate of increase has been checked. The number of sheep is probably of no use as a comparison, as vitiates it.

6. Statement B shows the distribution of the loss compared with 1915-16 over the Bombay Presidency. All districts show a loss of cattle except Ratnagiri, which is not shown in the statement as the apparent increase in this district is due to an increase in the reporting area, and is not real. Poona suffered most. The main area of loss in the Deccan is contained in a strip from Poona due north, including Ahmednagar, Nasik and West Khandesh. To the south of Poona, Satara has also lost heavily, but south of that district the reduction in the number of cattle, though serious, is considerably less. In Gujarat, the Panch Mahals have suffered the most with Ahmedabad and Broach standing next, but the less in no part of Gujarat approached the loss in the Poona district.

7. The loss everywhere fell most severely on the young stock, three districts (Poona, Ahmednagar and West Khandesh) showing a reduction in numbers of more than thirty per cent. In addition, both Ahmedabad and the Panch Mahals as well as Nasik and East Khandesh show losses of over twenty per cent.

8. The milch cattle suffered next to the young stock. Poona again lost more than thirty per cent. (30.3), and Satara, Ahme Inagar, Nasik and West Khandesh in the Deccan, with Ahmedabad and the Panch Mahals in Gujarat, show a reduction of over twenty per cent.

9. Plough cattle were preserved much better, especially in the charotar or rich alluvial soil of north Gujarat where the value of good plough cattle is fully appreciated. Only the Panch Mahals lost more than twenty per cent. of the plough cattle.

ro. In order to get an accurate picture we must discriminate still further. Statistics for small areas can never carry the same weight as larger statistics; but it is important to note that in any one district losses vary to a great degree. Perhaps the most affected talukas of the whole Presidency were Parner, Shevgaon and Shrigonda in the Ahmednagar district, and Sirur and Khed in the Poona district, and Nandurbar in the West Khandesh district. The actual losses of cattle in these talukas are shown below :—

			Plough cattle,	Milch cartle.	Young stock.	Total cattle,	Loss p. c.
limednagar—				•			
1. Parner	( 1915-16 ( 1919-20	•••	31,947 23,352	26,040 11,478	21,929 8,135	80,416 43,270	} 45
2. Shevgaun	6 1075-16	]	39.314	21,627	23,617	85,868	\$ 64.5
	··· ( 1919-20 ( 1915-16		15,122 25,718	7,417	7,558 18,329	30,315 63,596	R T
3. Shrigonda	{ 1915-16 1919-20		19,062	9,968	9,577	. 38,483	} 40
20 <b>71.1</b>							1
1. Sirur	{ 1915-16 1919-20	•••	29,164	21,042	19,969 5,125	70,721 33,869	} 52
	(1919-20		20,137 47,975	8,344 41,429	30,125	1,21,844	К
2. Kned	{ 1915-16 1919-20		36,402	30,379	13,060	81,203	} 35
est Khandesh—							
1. Nandurbar	···{ 1915-16 1919-20	•••	34,158	32,327	30,875	1,04,589 43,612	} 59
	1919-20		18,686	13,101	10,398	43,012	1

In Sind the figures of the present census show a large decline (vide statement A). In this province comparison can only be made with the live stock population for 1915-16, and not for 1895-96, as figures are not available before 1901-02. But the phenomena seen in the figures in the Presidency proper are reproduced in Sind. From 1901-02 to 1915-16 there was a general and steady rise in almost all classes of live stock, so that year may be taken to represent a normal number. The percentage fall since that time is shown in statement B.

11. The reduction in the total of all kinds of cattle is very large, much greater in fact than in the Presidency proper. Pre-eminently a grazing country, stocks were large wher the famine came, and the difficulties of organising adequate relief proportionately great As would be expected, the loss is least in the case of bulls and bullocks; it is greatest in young stock, as is always the case when there is reduction in number due to starvation. Milch cattle lost seriously, while on the whole nearly one-fifth of the cattle have died.

12. The loss of horses and ponies has been over twelve per cent. and the number now in the province is less even than in 1901-02. Sheep and goat fared better, of course.

13. As regards the distribution of the losses of cattle this is greatest in Karachi, and least in Thar Parkar, where plough and milch cattle were heavily affected. The loss of young stock in the Upper Sind Frontier district was extraordinarily heavy.

14. The figures given show sufficiently clearly the extent of the loss to the Presidency as the result of a wide-spread fodder famine, in spite of official as well as non-official efforts to stem the tide. The proposals of Government, providing in future years for fodder storage as a provision to tide over the early months of any serious fodder famine which the Presidency may be called upon to face, have already been detailed, and emphasis has been rightly laid on the necessity for individual and communal effort in the work of cattle preservation. It is at least clear that in the past famine, owing to the efforts of Government and, it must be added, the valuable co-operation of the Famine Relief Fund, which were on a larger scale than ever before, the loss of cattle has sensibly diminished, and, with greater experience, both on the part of cultivators and of relief organisations, it may safely be hoped that a larger measure of success will be obtained in future years.

#### STATEMENT A.

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#### Presidency Proper.

Details		1895-96.	1897-98.	· 4901-02.	3905-06.	1909-10.	1915-16.	1919-20
······································		Thousands	Thousands.	Thousands.	Thousands.	Thousands.	Thousands.	Thousand
	•14	3,211	2,965	2,504	2,583	2,830	3,224	3,031
Breeding bulls Cattle for other purp		. 21	115	13	21°. 88	, 20 107	24	128
M/1.1			2,414	1 1.817	2,148	. 2,472	2,904	2,529
Young stock		2,255	1,835	1,47L	1,875	2,143	2,656	2,186
To	tal Cattle	3,490	7,376	- 5,886	6,715	7,572	8,924	7,902
Horses and ponies		156	122	. 85.	92	113	127	· 129
Sheep		. 1,786	2,507	1,416	\$ 1,824	1,847	1,652	1,397
Goats		1,602	1,675	I,959	2,161	2,052	2,281	1,408

•		Sind.					-		
Plough cat Breeding b Cattle for c Milch cattl Young stor	ulis other purposes e		Not available	Not	537 7 12 717 386	351 8 14 759 376	582 10 14 948 501	601 8 15 988 566	} 554 835 390
	Total Cattl	e		+ ++++	1,659	1,708	2,105	2,178	1,779
Horses and Sheep Goats Camels	1 ponies 	••••	114 080 414 450		79 273 822 102	78 302 969 113	84 424 1,074 216	81 514 1,101 117	71 564 1,028 117

## 14.14

#### STATEMENT B.

Percentage increase or decrease as compared with the census of 1915-16.

District.		Plough	· Milch	Young	Total -	Horses and	Slaa-	
		cattle.	cattle.	stock.	cattle.	ponies.	Sheep.	Goats
Ahmedabad	·]	- 18	-237	- 28 8	- 158	- 20'0	- 18.8	- 9
Kaira		- 0.1	- 10'4	- 13.5	9.2	+22.5	• + 66 1	:- 7
Panch Mahals		- 21.3	- 27 6.	- 26 3	- 252	-123	- 34 0	- 33
Broach	]	- 3'9)	- 13.0	- 5°Č	- 10.2	- 46.7	- 36.7	- 24'
Surat		- 44	- 50 •		- 46	+213	- 15.1	i <del>-</del> 8.
West Khandesh	·]	- 13'4	A - 29'1	- 37'6 <sup>-</sup>	- 25.2	19 <sup>.</sup> 6	+21.0	- 46
East Khandesh		- 14	- 14:4	-273	+11.3	·- 6·1	- 3.0	- 35
Nasik		- 18 9	- 27'5	- 27.2	- 23.5	- 20.5	- 25'3	- 35
Ahr ednagar	***	- 17.3 -	- 29.7	- 41'3	- 27 8	- ri	- 29'4	- 55
Poona		- 19'5	- 30.3	- 47'7	- 30'7	- 50'3	+ 35.9	- 42
Sholapur	•••	- 70	- 10'2	- 10'7	- 86	- 42.6	- 8.6	- 20
Satara 🔐 🍾	••••	- 59	- 24'5	- 177	120	-496	- 14-1	- 36-
Belgaum	***	- 6.0	- 13.9	- 14.2	- 12.2	- 42.0	- 2.3	- 2
Bijapur	. •••	- 8.1	- 12.9	- 20'0	-13.4	. <del>-</del> 49'I	<u> </u>	- 37
Dharwar	•••	- 9.3	- 10'1	- 17'3	13.1	- 45 7	·- 9.9	- 34
Thana	···	- 13.3	6'8	- 9'9	- 93	+140	+968	- 46
Kolaba	•••	- 13.2	- 59	- 4'4	i – 7 <sup>.</sup> 8	- 14.6	+ 861.1	- 39%
Katara		- 5.0	- 18	+ 5'5	- 0'2	- 51 6	- 37'4	- 17
Total Presidency Karachi	•••	6'0	- 20.1	- 17.7	-11.2	- 23	- 154	- 391
Laskaa		- 1.3	- 40'I	~ 25.0	- 28.6	- 10.6.	+ 29 0	- 0.
California	•••	- 17 <sup>.</sup> 6 - 8 <sup>.</sup> 4	- 19'9	-36.9	- 23.0	- 18.7	+ 51	- 25
14 1 1 1	•••	•	- 14.7	- 19.3	- 18.1	+ 29	+ 16.2	+ 14
Nawabshah	••••	9.2 13.3	-11.8	- 34.9	- 20'0'	+ 35 4	- 16.8	+ 7
Thar Parkar	. •••	- 0'5	+ 3'3		- 145	- 54.6	+170	- 24
Upper Sind Frontier		- 15'3	- 18.4	- 19.0	- 25.6	- 59'4	+ 23'4	+ 8'