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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No. B.P. No.	2179-B.	Press. Mis.
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GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

2nd July 1877, No. 2,179-B.

Famine Relief.

Read the following paper :—

No. 23-C. Endorsement of the Chief Secretary to Government, Fort St. George, dated 22nd June 1877, No. 1,302.

Read the following letter from Surgeon-Major Æ. M. ROSS, Zillah Surgeon, Nellore, to Deputy Surgeon-General W. J. VANSOMEREN, M.D., Indian Medical Service, Presidency and Northern District, Madras, dated 16th June 1877, No. 109.

I HAVE the honor to report the result of my examination into the condition of the relief coolies in the neighbourhood of Nellore on the 10th June 1877.

RELIEF COOLIES FIRST EXAMINED.

Men.—Eleven were examined.

Five gained weight—one 7 lbs., one 5 lbs., one 2½ lbs., one 2 lbs., one ½ lb.; total 17 lbs.
Four lost weight—one 3 lbs. one 2 lbs., two 1½ lbs.; total 8 lbs.
Two remained stationary.
One was dropsical but less so, one emaciated and anæmic, one dropsical, anæmic, and scorbutic.

Women.—Twenty-three were examined.

Thirteen gained weight—one 5½ lbs., one 5 lbs., one 4½ lbs., two 4 lbs., one 3½ lbs., three 3 lbs., two 1 lb., two ½ lb.; total 38½ lbs.
Eight lost weight—one 2½ lbs., three 2 lbs., one 1½ lbs., two 1 lb., one ½ lb.; total 12½ lbs.
Two remained stationary.
One was scorbutic, four anæmic, four dropsical (two slightly), three anæmic and dropsical, one anæmic and scorbutic, one slightly dropsical and scorbutic, one emaciated and scorbutic, one emaciated, anæmic, and scorbutic. One is noted as very thin.

Boys.—Seven were examined.

Two gained weight—one 1 lb., one ½ lb.; total 1½ lbs.
Five remained stationary.
Two were scorbutic, one scorbutic and dropsical, one scorbutic and anæmic, one anæmic and very thin.

Girls.—Ten were examined.

Six gained weight—four 1 lb., two ½ lb.; total 5 lbs.
Two lost weight, 1 lb. each—total 2 lbs.
Two remained stationary.
One was anæmic, one very thin and anæmic, one slightly scorbutic and anæmic, two slightly scorbutic and very thin, one scorbutic, anæmic, and very thin, one slightly scorbutic.

COOLIES ON ROAD WORKS.

Men.—Seventeen were examined.

Nine gained weight—one 7 lbs., one 6 lbs., one 3 lbs., one 2½ lbs., two 2 lbs., two 1½ lbs., one ½ lb.; total 26 lbs.
Seven lost weight—one 7 lbs., one 6 lbs. (had been sick), one 5 lbs., one 3½ lbs., one 3 lbs., one 2 lbs., one 1 lb.; total 27½ lbs.
One remained stationary.
One was slightly scorbutic, three had œdematous feet and legs but less so than when last examined, one was scorbutic but less so than formerly, one was scorbutic (but less so) and anæmic.

Women.—Twenty-three were examined—

Nine gained weight—one 6 lbs., one 4½ lbs., one 3 lbs., three 2½ lbs., one 2 lbs., one 1½ lbs., and one ½ lb.; total 25 lbs.
Ten lost weight—one 4½ lbs., one 3 lbs., two 1½ lbs., two 1 lb., four ½ lb.; total 14½ lbs.
Four remained stationary.

Scorbutic

One was increasingly dropsical (gained 4½ lbs. in weight on this account), one dropsical, one had œdema of the feet, two were anæmic and dropsical, one slightly dropsical and scorbutic.

Scorbutic, one anæmic and scorbutic, one (lost weight) was 6½ months pregnant.

Boys.—Eleven were examined—

Four gained weight—one 1½ lbs., one 1 lb., two ½ lb.; total 3½ lbs.
Six lost weight—one 2 lbs., three 1½ lbs., one 1 lb., one ½ lb.; total 8 lbs.
One remained stationary.
Three were scorbutic, three anæmic and scorbutic, two anæmic, one scorbutic and pot-bellied.

Girls.—Nine were examined—

Two gained weight—one 2½ lbs., one ½ lb.; total 3 lbs.
Four lost weight—one 4½ lbs., one 1½ lbs., two ½ lb.; total 7 lbs.
Three remained stationary.
Two were anæmic, two scorbutic, and one anæmic and scorbutic.

2. An improvement may be noted on the whole in the condition of the coolies first examined since the introduction of the new rate of wage, but it is not so marked as it would have been had the new rate proved fully sufficient; still all classes gained weight, the women most.

3. With regard to the relief coolies on road-work, however, it will be seen that all except the women lost weight, the girls and boys considerably. I can account for the difference in the effect of the increased wage only by the fact that the coolies first examined were a much poorer set than those on the road-work, and that the road relief coolies, more than the others, lived on ragi, of which they have now been almost entirely deprived by the failure of supplies in the market. I was struck by the very slight improvement produced by the increased wage, and questioned the coolies themselves with regard to the cause. They stated, what I found to be true, that the price of grain has risen in the local market, and that they are paid so late at night (10 to 12 P.M.) that the grain dealers who keep their shops open for their special convenience charge them considerably higher than the ordinary market rates, and that they moreover sell them spoiled or inferior grain. They are thus unable to obtain the same proportionate amount of nourishment for the increased wage.

It is clear that if as wages rise the price of grain also rises, that no benefit will accrue to the starving recipients of the wage.—G. S.

4. I am of opinion that the present (increased) rate of wage is insufficient to get the coolies into proper working condition, or to keep them in it, or even in tolerable health.

5. In the healthy the increase in weight after a few days of comparative fasting, which takes place after restoration to a diet little more than sufficient to maintain health and strength, is quickly marked.

6. As an example, having to punish a female prisoner by placing her on three days' conjee diet, I had her first carefully weighed, when I found that she weighed 116½ lbs. After 24 hours of conjee diet (6½ oz. rice) she weighed 112 lbs., having lost 4½ lbs. in that time. After 48 hours on conjee diet she weighed 111½ lbs., and after 72 hours 110½ lbs., but after 24 hours on ordinary diet she had regained nearly her original weight, viz., 116 (gain of 5½ lbs.), in 24 hours.

7. I should not expect the coolies on relief-works to improve as rapidly as this on a sufficient diet, for there can be little doubt that the digestive and assimilative powers of most of them are much less active than in persons in good health; but even making allowance for that, I think they should have improved more rapidly than they have done if the increased wage had been sufficient.

ENCLOSURE No. 1.

Name.	Weight on Admission, *i.e.*, on 14th March 1877.	Weight before keeping on Conjee diet, *i.e.*, on 5th June 1877, at 6 A.M.	Weight after keeping 24 hours on Conjee diet, *i.e.*, on 6th June, at 6 A.M.	Weight after keeping 48 hours on Conjee diet, *i.e.*, on 7th June, at 6 A.M.	Weight after keeping 72 hours on Conjee diet, *i.e.*, on 8th June, at 6 A.M.	Weight after restoring to regular diet (24 hours after), *i.e.*, on 9th June, at 6 A.M.	Weight after restoring to regular diet (48 hours), *i.e.*, on 10th June, at 6 A.M.	Weight after restoring to regular diet (72 hours), *i.e.*, on 11th June, at 6 A.M.	Weight after restoring to regular diet (96 hours), *i.e.*, on 12th June, at 6 A.M.
	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.
D. Voby ...	114	116½	112	111½	[illegible]	116	116	115	115

(Signed) E. M. ROSS, Surgeon-Major,
Zillah Surgeon, Nellore.

ENCLOSURE No. 2.

Men.

No.	Names.	Height.		Age.	First Weight, 15th March 1877.	Second Weight, 23rd March 1877.	Third Weight, 31st March 1877.	Fourth Weight, 7th April	Fifth Weight, 14th April 1877.	Sixth Weight, 21st April 1877.	Seventh Weight, 30th April 1877.	Eight Weight, 7th May 1877.	Ninth Weight, 13th May 1877.	Tenth Weight, 21st May 1877.	Eleventh Weight, 27th May 1877.	Twelfth Weight, 3rd June 1877.	Thirteenth Weight, 10th June 1877.	Remarks.
		FT.	IN.	YRS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	
1	Nattem Venkatadri	5	4	55	112	110	108	...	...	...	...	...	...	...	...	...	...	
2	Meega Ramudu	5	3½	40	88	89	93	90	...	...	...	...	...	...	...	...	...	
3	Kotu Narayana Reddy	5	4	50	88	89	90	87	88	86	...	...	...	87	...	...	...	
4	Gali Narasimma	5	4½	52	92	93	95	91	91	93	...	...	...	89½	87	82	89	
5	Vatti Ragadu	5	5	35	98	103	101	...	99	98½	...	...	...	99	99	99	101	
6	Gudaloor Narigadu	5	1	50	94	94	93	...	90	...	...	...	...	...	...	...	...	
7	Chamudugenta Lutchmanarusu ...	5	4	55	108	112	112	...	...	...	...	...	...	...	...	...	...	
8	[illegible]di Ragadu	5	1	25	87	85	...	...	...	...	...	...	...	...	...	...	...	
9	Garitoy Soobadu	5	3	50	98	98½	97	...	...	...	99	100	99	99	102½	103	103	A little less dropsical.
10	Kalichetti Verapa Reddy	5	1	55	72	72	72	...	72	...	72	72	70	70	70	70½	70½	Emaciated, anæmic.
11	Trivallur Multiah	5	5	16	79	80	76	...	...	...	...	...	...	...	...	...	...	
12	Irrajama Soobadu	4	11	16	81½	79	...	79	80	80	...	80½	78½	81	80	80	78½	
13	Toppal Munisawmy	5	3½	55	96	95	96	96	90	93	...	...	...	...	...	...	...	
14	Chittoor Appiah	5	0	16	91	90	88	90	86	84	...	85	87	89	99½	89	87	
15	Endoti Nursu	5	7	55	115	114	110	109	...	111	...	...	...	110	109½	109½	112	
16	Syed Ramtumiah	5	2	18	83	84	82	...	82	...	...	...	...	...	...	...	...	
17	Mokati Kotadu	5	2	60	94	94	92	...	97	96	...	...	...	97	93	97	94	
18	Damanarapu Ramudu	5	4	55	105	104	104	...	...	...	...	...	...	...	...	101	101½	
19	Bendi Soobadu	5	6	55	105½	108	110	...	...	108½	...	...	...	...	...	...	...	
20	Perra Pothoogadu	5	6	22	88	93	...	...	...	...	...	...*	...	...	...	...	...	
21	Malika Soobadu	5	2½	16	77	74½	77	...	...	74	...	...	...	...	...	...	...	
22	Mutiyalu Petechigadu	5	1½	15	79	78	82	76	76	77	...	76½	77	77	79½	81	...	
23	Komarika Venkatsugadu	5	0	50	...	96	104	...	101	108½	...	...	...	...	...	...	...	
24	Vakati Yamadu	5	2	40	96	94	92	93	92	97	...	...	...	95½	99½	96½	...	
25	Madugu Narisigadu	5	6	45	101	101	98	...	...	100	...	99	100	100	98½	101	99½	
26	Chennasuri Muta Royal Reddy ...	5	3	50	...	...	...	...	...	78	...	74	73	77½	74	73½	78½	Dropsical, anæmic, scorbutic.
	Total ...	...	...	...	2,228	2,329	2,072	811	1,144	1,384½	171	587	584½	1,171½	1,087	1,183	1,014½	
	Average ...	...	...	...	92·13	93·2	94·3	90·2	88	92·5	85·8	83·14	83.8	90·2	90·9	91	92·4	

(Signed) Æ. M. ROSS, Surgeon-Major,
Zillah Surgeon, Nellore.

Women.

No.	Names.	Height.	Age.	First Weight, 15th March 1877.	Second Weight, 23rd March 1877.	Third Weight, 31st March 1877.	Fourth Weight, 7th April 1877.	Fifth Weight, 14th April 1877.	Sixth Weight, 21st April 1877.	Seventh Weight, 30th April 1877.	Eighth Weight, 7th May 1877.	Ninth Weight, 13th May 1877.	Tenth Weight, 21st May 1877.	Eleventh Weight, 27th May 1877.	Twelfth Weight, 3rd June 1877.	Thirteenth Weight, 10th June 1877.	Remarks.
		FT. IN.	YRS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	
1	Mongalgherri Petchaina	4 11½	50	74	74	79	74	76	73	73	74	74	73¼	73¼	72½	75¼	
2	Kanubovana Adi	5 6	18	85	86	88	86	84	86	86	86	83	87	85	84	83	Scorbutic.
3	Maouti Kanakama	4 9½	50	66	64	67	70	64	68	...	64¼	63	63¼	65	63¼	64	Anæmic and dropsical.
4	Kaloor Latchi	4 10	45	67	66½	68	...	66	65	67¼	66	...	65½	66	66¾	65¼	Anæmic and scorbutic.
5	Isakala Venkama	5 2	45	83	81	85	...	...	...	84	81	82¼	80	78	80	79¼	Slightly dropsical, scorbutic.
6	Fathama Bee	4 9	45	59	59	60	61	...	61	59	62	60¼	...	...	62	62¼	Anæmic, feet œdematous.
7	Gudama Bee	4 9½	30	78	80	80	79	76	76	...	...	...	...	...	...	...	
8	Muttaly Akki	4 10	30	74	75	75	...	74	73	...	73	77	72¼	74	75	80	Dropsical.
9	Malika Poli	4 10	35	69	67	66¼	...	...	62	...	...	...	...	...	...	...	
10	Yanadi Soobbeo	5 3	40	79	74½	76	...	78	76	80	79	74	70	73¼	73¼	71	Emaciated, anæmic, scorbutic.
11	Peta Puppavanal	4 11	20	81	86	80	...	...	...	...	...	...	...	...	...	...	
12	M[illegible]aria Venkatam[illegible]	4 10½	25	81	84	...	...	...	...	...	...	...	...	...	...	...	
13	Gala li Latchmmana	5 1	49	93	94	...	...	...	...	...	...	...	...	...	...	...	
14	Yanuga Adamma	5 4	50	71	71	70½	...	...	...	71	70	70	70½	69¼	68¼	72	Emaciated, scorbutic.
15	Yetto Soobaka	5 1	35	74	73	76¼	...	...	...	75	79	75	76	71¼	72¼	77	
16	Kota Maha Latchmi	5 2	25	79	82	80	...	...	...	82	83	83	85	78	75¼	64	Anæmic.
17	Boyana Narisi	4 11	20	63	64	66¼	...	...	...	67	70	68¼	67	66	65¼	66¼	Do.
18	Chatla Veeri	4 6	50	64	64	66½	...	61	63	64	66	64	64	62	63	61	Very thin.
19	Amara Ramonjee	4 9	40	77	76	74	...	73	76	75	77	73	71	71	76	74	Still dropsical.
20	Arugauri Monga	5 0	17	73	77	75	78	75	75¼	...	...	...	...	...	...	...	
21	Kalegani Adamma	4 10	50	82	82	82	83	...	80	81	83	80¼	80½	77¼	78	82	
22	Gudavarapu Venkat Latchmi ...	4 10	50	79	78	70¼	79	76	76½	75	76¼	76¼	78	72¼	73¼	77¼	Slightly dropsical.
23	Meejoor Yallama	4 9	85	83	78	79½	78	61	79½	77	78	78¼	77	80¼	80	78	Dropsical, anæmic.
24	Dana Atchi	4 8	30	70	69	68¼	70	66	68	67	70	69	69	69	69	69	
25	Mukati Latchi	5 2	35	83	82	81½	...	83	...	81	79	81¼	82¼	83	81¼	80	Anæmic.
26	Arava Atti[illegible]	4 10	35	70	71	66¼	[illegible]	71	67	68	68¼	66	69	69¼	85	70	Slightly dropsical.
27	Kanam Na[illegible]	5 3	35	83	81	81½	[illegible]	80	80¼	79	80	80¼	78¼	83	80¼	80¼	Anæmic.
28	Saram Pe[illegible]	5 3	35	86	83	84¼	[illegible]	83	82½	81	82¼	78¼	81	80¼	80	83	
29	Ambati [illegible]atchmi	4 11	45	80	78	78¼	76	73	78	71	72	77	75	72½	74½	77¼	
30	Patam [illegible]	5 4½	35	...	...	...	...	...	...	...	...	105¼	...	...	...	...	
	Total ...	... ...	...	2,208	2,199	2,029¼	994	840	1,463½	1,506¼	1,720	1,741	1,637	1,621	1,687	1,713	
	Average ...	... ...	...	76·2	75·13	75·3	76·12	74·7	73·3	74·9	74·12	75·11	74·6	73·11	7·26	74·8	

(Signed) Æ. M. ROSS, Surgeon-Major,
Zillah Surgeon, Nellore.

Boys.

No.	Names.	Height.	Age.	First Weight, 15th March 1877.	Second Weight, 22nd March 1877.	Third Weight, 31st March 1877.	Fourth Weight, 7th April 1877.	Fifth Weight, 14th April 1877.	Sixth Weight, 21st April 1877.	Seventh Weight, 30th April 1877.	Eighth Weight, 7th May 1877.	Ninth Weight, 13th May 1877.	Tenth Weight, 21st May 1877.	Eleventh Weight, 27th May 1877.	Twelfth Weight, 3rd June 1877.	Thirteenth Weight, 10th June 1877.	Remarks.
		FT. IN.	YRS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	
1	Genta Venkutsawmy ...	4 0	8	41	41	40½	41	39	...	...	...	...	...	...	...	...	
2	Syed Yakoob	4 0	10	41	41	42	43	41	...	...	...	...	...	...	...	...	
3	Nellore Narrayanasawmy ...	4 3	10	39	40	39½	38	38	40½	...	38	37	38	37	36½	36½	Scorbutic.
4	Guddeam Gurapa	4 2	11	44	44½	45	46	...	44	43½	45	43	...	41	40	41	Scorbutic, dropsical.
5	Panumala Pullaya	4 4	11	51	51	51	...	...	...	52	51	49½	49	48	48	48	Anæmic, very thin.
6	Buttala Rungadu	3 11	10	46	45	46	...	...	...	46	45	45½	...	44	44½	44½	
7	Kalasba	3 0	7	38½	38	36	36	36	34	30	36	34	...	...	...	...	
8	Talloor Ragavaiah	3 3	11	50	50	51	...	...	...	...	...	...	...	...	...	...	
9	Guddom Venkutsawmy ...	4 1	7	41	42	41	42	40	42	...	40	40½	41	40½	41½	41½	Scorbutic.
10	Agnihotrum Ramiah ...	4 10	11	44	45	43	45½	44	45	...	46	46	45½	44½	44½	44½	
11	Arva Rungiah	4 2	7	39½	40	40	41	39½	41	40	41	39	39	40	40	40½	Scorbutic and anæmic.
	Total ...	... ...	...	475	477½	475	382½	377¼	246½	217½	342	334½	212½	295	295	296½	
	Average ...	... ...	...	43·3	43·6	43·3	41·9	39·10	41·1	43·8	42·12	41·13	42·8	42·2	42·2	42·6	

(Signed) Æ. M. ROSS, Surgeon-Major,
Zillah Surgeon, Nellore.

Girls.

No.	Names.	Height.	Age.	First Weight, 15th March 1877.	Second Weight, 23rd March 1877.	Third Weight, 31st March 1877.	Fourth Weight, 7th April 1877.	Fifth Weight, 14th April 1877.	Sixth Weight, 21st April 1877.	Seventh Weight, 30th April 1877.	Eighth Weight, 7th May 1877.	Ninth Weight, 13th May 1877.	Tenth Weight, 21st May 1877.	Eleventh Weight, 27th May 1877.	Twelfth Weight, 3rd June 1877.	Thirteenth Weight, 10th June 1877.	Remarks.
		FT. IN.	YRS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	
1	Matangee Narasi	4 0	10	54	53	...	...	48	50	52	52½	53	...	53½	53	53	Anaemic.
2	Gannam Adi	4 4	10	51	50	47	48	49	49	...	...	...	41½	45	45½	41	Very thin, anaemic.
3	Satani Rungama	3 11	9	42	43	...	...	...	...	41	41½	41½	40½	38½	39½	40½	Slightly scorbutic.
4	Dana Pitchi	4 7	12	52	50	50	53	50	50	51	50½	52	50½	51½	51½	50½	Scorbutic and anaemic, very thin.
5	Boddee Lutchi	4 5	13	54	54	...	...	...	...	...	...	...	...	...	50½	51½	Slightly scorbutic, very thin.
6	Potta Parindavi	4 3	10	50	52	50	51½	50	51	49	50	50	51	51	43½	50½	
7	Garitoty Mahalutchmi	4 0	8	43	42	43	...	...	...	41	42	42	44	42½	43	43	
8	Dara Bungaru	4 0	8	47	49	44	...	...	...	47	44	46½	45	45½	46½	42½	Slightly scorbutic and anaemic.
9	Gunta Poli	4 5	10	48	48½	46½	...	...	...	...	...	...	...	...	...	...	
10	Dara Chena Narsi	3 8	7	39½	40½	41	...	...	...	...	...	...	...	...	...	...	
11	Kotta Andemma	4 5	12	48	50	48	41	...	48½	...	...	...	...	...	47	47½	Very thin, slightly scorbutic.
12	Porri Atchi	4 5	12	40	41	40	42	34	52½	...	...	...	...	...	...	...	
13	Kanubeyana Poli	4 6	13	53	51	50½	...	...	...	...	...	...	...	...	...	...	
14	Chetti[illegible]i Lutchmi	4 3	12	40	41	40	...	...	...	...	...	...	...	...	...	...	
15	Dode[illegible]ati Venkati	4 4	13	47	48½	...	...	...	...	...	...	...	...	...	...	...	
16	Tancheyana Chena Pella	4 4½	12	45	45	44	...	...	...	...	...	...	...	...	...	...	
17	Agnihotrum Muthama	3 11	8	45	44	43½	41	43	43½	43	42	43	43½	43	43	43	
		...	...	797¼	800½	[illegible]	233½	274	332½	324	322½	328	319	370½	466	469	
		...	...	46·14	47·1	45·3	46·7	[illegible]	47·3	46·5	46·1	46·13	45·9	46·5	46·9	46·14	

(Signed) Æ. M. ROSS, Surgeon-Major, *Zillah Surgeon, Nellore.*

Enclosure No. 3.

Men.

Names.	Age.	Height.	1st Weight, 22nd April 1877.	2nd Weight, 30th April 1877.	3rd Weight, 7th May 1877.	4th Weight, 13th May 1877.	5th Weight, 21st May 1877.	6th Weight, 27th May 1877.	7th Weight, 3rd June 1877.	8th Weight, 10th June 1877.	Remarks.
	YEARS.	FT. IN.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	
1. Mamath Sahib	35	5 4	107	......	...	......	......	......	......	......	
2. Sheik Adeem	25	5 5	108½	......	...	......	......	......	......	......	
3. Maripaty Veerasawmy	16	5 2	84	81	[illegible]	83	......	......	......	......	
4. Polooroo	30	5 3	112	113	[illegible]	112½	110	109	109½	111	
5. Bathena Lutchnigadoo	50	5 5¾	114	......	......	......	......	......	......	......	
6. Cheredigum Narismiah	18	4 10	81	......	......	......	......	77½	......	......	
7. Agnibothrum Venkatasamy	25	5 5½	110	112	[illegible]	......	......	110	112	107	
8. Do. Goorappah	50	5 2	98½	......	...	......	......	......	......	......	
9. Bundy Soobbaloo	...	....	......	......	......	......	......	......	......	......	
10. Yetty Ragadoo	...	....	......	100	99½	101	99	99	99	101	
11. Savarappah	18	5 2¼	94	......	...	......	......	......	......	......	
12. Galy Narismiah	...	....	......	91	88½	91	89½	87	82	89	Slightly scorbutic.
13. Mullumbakum Ramasamy	40	5 ¼	74½	76½	79	72½	78	79½	78	71	Less œdematous.
14. Kota Narumrudu	...	....	......	89	85	91	87	......	......	......	
15. Valoor Ramasawmy	40	5 2	86	87	85	......	......	......	......	......	
16. Daga Venkatasawmy	42	4 9½	71	......	......	......	......	......	......	65	Been ill.
17. Vakaty Yamadoo	...	....	......	95	92	94	95½	99½	96¼	98	
18. Mookaty Kotadoo	...	....	......	96	98	95	97	98	97	94	Less œdematous.
19. Yendoty Narismiah	...	....	......	110	109½	110¼	110	109½	109½	112	
20. Arana Veerasawmy	50	5 1¾	90	......	......	......	......	......	......	......	
21. Sothapally Mooneppah	60	4 10¾	84	......	......	......	......	......	......	......	
22. Apenathy Aukadoo	20	4 11½	81	87	......	87	......	......	87½	89½	
23. Chatla Narisigadoo	25	5 3	94	......	......	......	......	......	......	......	
24. Chittoor Mooneppah	40	4 10½	83	81½	78¼	......	78	78	74	77	Less scorbutic.
25. Dodakula Sheik Ally	23	5 2	79	80	80	82½	80½	81½	......	......	
26. Kaky Narigadoo	30	5 7¼	90	89	......	85½	......	......	......	......	
27. Gazoo Lutchmiah	16	5 1	76½	80	77	76	78	77	74½	74¼	Œdematous.
28. Chittoor Syegadoo	16	5 4¼	81½	84	85	85	84	84	80	86	Less scorbutic, still anæmic.
29. Karaty Lutchmiah	50	5 6	108	......	......	......	......	......	......	......	
30. Kotapoody Narisegadoo	18	4 11¼	82	83	81½	79½	80	......	......	......	
31. Pootoor Venkatasawmy	17	5 3	76	78	76	77	77	76½	78	77	Very thin.
32. Chittoor Moothyaloo	17	4 11½	76½	76	......	78	74½	76	76	72½	Do.
33. Taloor Venkatasawmy	20	5 4½	102¼	101	101	99	100	100½	99	99½	
34. Sathoolutchnoogadoo	30	5 2	83	......	......	......	......	......	......	......	
35. Kakooloor Soobbiah	19	5 2	88	83	81	79½	82	80½	79	77	
36. Mannaty Soobbiah	17	5 1	79	82	......	......	......	......	......	......	
Total ...	857	150 ¾	2,594½	2,055	[illegible],705½	1,679½	1,500	1,523	1,431¼	1,501	
Average ...	29·55	5 2	89·7	89·5	89·12	88·6	88·4	89·9	89·7	88·5	

(Signed) Æ. M. ROSS, Surgeon-Major,
Zillah Surgeon, Nellore.

Women.

Names.	Age.	Height.	1st Weight, 22nd April 1877.	2nd Weight, 30th April 1877.	3rd Weight, 7th May 1877.	4th Weight, 13th May 1877.	5th Weight, 21st May 1877.	6th Weight, 21st May 1877.	7th Weight, 3rd June 1877.	8th Weight, 10th June 1877.	Remarks.
	YEARS.	FT. IN.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	
1. Arava [illegible] ...	20	4 11½	96	99	98	98	...	...	...	...	
2. Julia Soobby ...	18	4 11	74½	...	...	...	...	...	...	...	
3. [illegible] Gammah ...	25	5 2	90	96½	96½	96½	94½	96	...	...	
4. Arkaty Venkatammah ...	30	4 10¾	88	...	...	...	...	...	...	...	
5. [illegible] ...	30	4 9½	95	...	94	93½	96	...	92	9[illegible]½	A heavier cloth.
6. [illegible] Pitchammah ...	28	4 8½	90½	...	...	...	95½	93	97	96	
7. Chendrazity Venkatalutchmy ...	30	5 0	94	...	[illegible]	97	...	...	...	...	
8. [illegible] ...	30	4 10	93½	90	91	93	94	96½	97	96½	
9. [illegible] Bayee ...	28	4 11	86	...	...	...	...	...	...	...	
10. [illegible] ...	30	5 0	82½	80½	81	81½	83	82	80	82	
11. [illegible] ...	30	5 0	78½	80	80	82	80	81	78	80½	
12. Chittoor [illegible] ...	30	5 0	88	88	89	89	87	88½	80	86	Slightly dropsical and scorbutic.
13. [illegible] ...	20	5 0	80	...	83	79	84	77½	76	79	Pregnant 6½ months.
14. [illegible] ...	25	5 ½	97	...	...	...	...	...	...	...	
15. Nellore [illegible] ...	30	4 11	85	85	84	88	83½	83	84½	84	Still scorbutic.
16. Nellore [illegible] ...	30	4 11	88½	87	88	86	89	86	88	86½	
17. [illegible] ...	20	5 4	82½	85	84	80½	83	79	78½	80	
18. Thalore [illegible] ...	25	4 11	80	77	73	79	75	77½	77	79½	Still slightly scorbutic and very thin.
19. [illegible] ...	35	4 11	79½	78	80	83	80	78½	78	77½	
20. [illegible] ...	40	4 9½	71	72½	73	70½	71	68½	70½	70½	Anæmic and dropsical.
21. [illegible] ...	18	5 1	83	82	83½	81½	82	81½	80	79½	Anæmic and dropsical.
22. [illegible] ...	40	4 10	81	83½	80	81½	...	...	79½	79½	
23. [illegible] Lutchmy ...	35	4 9	64½	63	58	66½	...	...	...	...	
24. [illegible] Venkaty ...	35	5 0	77	...	...	...	...	...	...	...	
25. [illegible] ...	25	4 6½	66	67	55	69½	...	...	63	54	
26. [illegible] ...	30	4 10	84½	88	[illegible]	86½	87	86	85	85	
27. [illegible] ...	40	4 10½	83	84	[illegible]	81½	83	80	81	83½	Anæmic and scorbutic.
28. [illegible] ...	35	4 10	73½	...	...	...	...	...	...	...	
29. [illegible] ...	50	4 11	79	...	[illegible]	...	81	79	79	79	
30. [illegible] ...	45	4 7½	85	84	[illegible]	83	86	82½	84	83	Foot œdematous.
31. [illegible] ...	40	4 7½	76½	79	[illegible]	79½	78	79½	80	78½	Dropsical.
32. [illegible] ...	17	5 0	84½	85	[illegible]	82½	81	8[illegible]½	82	80½	Scorbutic.
33. [illegible] ...	35	5 2	83	77	[illegible]	81½	...	71	77	81½	Dropsy increased.
34. [illegible] ...	35	5 ½	83½	84	[illegible]	86	...	...	...	...	
Total ...	1,062	167 2	2,823	1,985	2,1[illegible]8	2,165	1,778	1,726	1,863	1,870½	
Average ...	31·23	4 11	83·0	81·15	83·[illegible]	80·1	84·6	82·[illegible]	81	81·0	

(Signed) Æ. M. ROSS, Surgeon-Major,
Zillah Surgeon, Nellore.

Boys.

Names.	Age.	Height.	1st Weight, 22nd April 1877.	2nd Weight, 30th April 1877.	3rd Weight, 7th May 1877.	4th Weight, 13th May 1877.	5th Weight, 21st May 1877.	6th Weight, 27th May 1877.	7th Weight, 3rd June 1877.	8th Weight, 10th June 1877.	Remarks.
	YEARS.	FT. IN.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	
1. Madar ...	8	3 9½	33	34	2	...	...	...	...	...	
2. Yatty Narismiah ...	8	3 9	32	33	3	33	32½	32½	32	33	
3. Putta Narisigadoo ...	10	4 2½	44	44	4	44	43	42½	42½	41½	Scorbutic.
4. Linganetty Soobbiah ...	8	3 8½	32	...	1½	31½	31½	30	32	31½	Do.
5. Malembakum Venkatasu ...	11	4 3	49½	...	...	...	...	...	...	...	
6. Laty Penchelo ...	11	4 2½	51	...	...	...	...	...	...	...	
7. Chittoor Narayadoo ...	10	3 11½	38½	...	...	...	...	...	...	...	
8. Vatoor Narismiah ...	11	4 1½	38½	37½	...	...	37	...	...	...	
9. Patoor Sathappah ...	13	4 5½	50	51	50	51	51	49½	51	49½	Anæmic and scorbutic.
10. Mally Narismiah ...	13	4 5	50½	52	49	50	50	48	48½	50	
11. Gaddum Soobadoo ...	14	4 5½	56½	60	...	58	...	...	59	57½	Anæmic.
12. Mally Soobbiah ...	9	3 10	37½	37½	37	37	37	35	32	32½	Anæmic and scorbutic.
13. Therathoor Ragavaloo ...	13	4 5½	52	54	52	52½	54	53	53½	51½	Anæmic.
14. Patoor Venkatasawmy ...	11	4 1½	44	46½	43½	44½	43½	43	43	43½	Anæmic and scorbutic.
15. Singumsetty Ramoodoo ...	14	4 5	51	50	51	51	51	51	51	49½	Scorbutic.
16. Nellore Soobbadoo ...	8	3 8	32	33	32	33	31½	30½	31	31	Scorbutic, pot-bellied.
17. Valoor Soobbiah ...	14	4 6	58	...	...	...	...	...	...	...	
Total ...	186	70 4	750	532½	455	484½	462	415	475½	471	
Average ...	10·94	4 1	44·2	44·6	41·5	44·1	42·0	41·8	43·4	42 13	

(Signed) Æ. M. ROSS, Surgeon-Major,
Zillah Surgeon, Nellore.

Girls.

Names.	Age.	Height.		1st Weight, 22nd April 1877.	2nd Weight, 30th April 1877.	3rd Weight, 2h May 1877.	4th Weight, 13th May 1877.	5th Weight, 21st May 1877.	6th Weight, 27th May 1877.	7th Weight, 3rd June 1877.	8th Weight, 10th June 1877.	Remarks.
	YEARS.	FT.	IN.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	LBS.	
1. Poontoorgonta Narisy	10	4	2½	44	44	43	44½	44	42½	45	40½	Anæmic.
2. Rasula	12	4	1	42½	...	...	...	...	...	...	...	
3. Passy Mahaluchmy	10	4	½	43	43	45	42	43½	41½	42½	43	Scorbutic.
4. Petta Soobby	10	3	10	31	...	...	...	...	...	...	...	
5. Chitoor Sayee	9	3	8	34	33	34	31½	34	34	33	35	
6. Pateun Parvaty	10	3	9	36½	37½	37	...	...	...	...	7	
7. Chittoor Sayee	9	3	11	37	35	3[illegible]½	37½	36	36	37	36½	
8. Pata Luchm[illegible]	8	3	9	35	34½	35	35	34	33½	34½	35	
9. Sarayee Anth[illegible]	14	4	4	45	45½	42½	44	43	44	42½	42½	Scorbutic.
10. Valoor Venc[illegible]amah	13	4	3½	48	...	...	...	...	...	...	...	
11. Vasarogoo [illegible]uchmy	14	4	5½	42	53½	53	...	...	...	...	...	
12. Pata Mee[illegible]amah	14	4	3	55	56	55	57	53	51½	53½	58	
13. Tisthoola Yellanah	12	4	2	43	45	43	43	43½	43	43	41½	Anæmic and scorbutic.
14. Doovooro Authemah	15	4	6½	53	57	56	58	57	56	59	54	Anæmic.
Total ...	160	57	½	591	495	4[illegible]6	535½	385	386	394	390	
Average ...	11·43	4	1	42·8	44·1	45·[illegible]	45·15	42·12	42·12	43·12	43·5	

(Signed) A. M. ROSS, Surgeon-Major,
Zillah Surgeon, Nellore.

No. 4,782.

THE rise in prices of grain coincident with the increase of wage and allowance is unfortunate! Consequently, there has been yet little or no improvement in the physical condition of the poor referred to in this report.

(Signed) W. J. VANSOMEREN, M.D.,
Deputy Surgeon-General, I.M.S.,
Presidency and Northern District.

MADRAS,
19th June 1877.

AN interesting report.

(Signed) G. SMITH, M.D.,
Surgeon-General, I.M.D.

No. 384.

FORWARDED to the Chief Secretary for submission to Government.

FORT ST. GEORGE,
21st June 1877.

(Signed) G. SMITH, M.D.,
Surgeon-General, I.M.D.

TRANSFERRED to the Revenue (Famine) Department.

(Signed) D. F. CARMICHAEL,
Chief Secretary.

No. 23-D. ORDER THEREON, 2nd July 1877, No. 2,179-B.

Miscellaneous.

COMMUNICATED to the Sanitary Commissioner.

(True Extract.)

(Signed) J. H. GARSTIN,
Additional Secretary to Government.

To the Surgeon-General, Indian Medical Department.
,, the Sanitary Commissioner.
,, the Collector of Nellore.
,, the Board of Revenue.
,, the Financial Department.

Exd. A. F. Goodall.

-cated, & anoemic. one dropsical anoemic and
Scorbutic.

G.O. of (1877) Madras.

REVENUE.

The SURGEON-GENERAL,
INDIAN MEDICAL DEPARTMENT,
&c. &c. &c.

Dated July 2nd.

[illegible]

[illegible]

Red.

G.O., 2nd July 1877, No. 2,178-R.

JULY.
Nos. 23-C—23-D.

FAMINE RELIEF. No. 1,557-P.

Relief and Road Coolies in the neighbourhood of Nellore.—Communicating to the Sanitary Commissioner letter from the Zillah Surgeon of Nellore reporting the result of examination of — 10th June 1877.

No. 109

Dated 16th June 1877
Civil Dispensary
Nellore

From A E M Ross Esquire
Zillah Surgeon
Nellore

To The Deputy Surgeon General
I. M. S. Presidency
& N. District
Madras

Sir I have the honor to report the result of my examination into the Condition of the Relief Coolies in the Neighbourhood of Nellore on the 10th June 1877.

Relief Coolies first Examined

Men — Eleven were examined

Five gained weight - one 7 lbs, one 5 lbs, one 2½ lbs, one 2 lbs, one ½ lbs = total 17 lbs.

Four lost weight - one 3 lbs, one 2 lbs, two 1½ lbs = total 8 lbs. Two remained stationary.

One was dropsical but less so, one emaciated & anaemic, one dropsical anaemic and scorbutic

Women ——— Twenty three were examined.

Thirteen gained weight - one 5½ lbs, one
lbs, one 4½ lbs, two 4 lbs, one 3½ lbs, three 3 lbs
vo 1 lbs, two ½ lbs = total 38½ lbs.
Eight lost weight - one 2½ lbs, three 2 lbs, one 1½ lbs
vo 1 lbs, one ½ lbs = total 12½ lbs.

Two remained stationary
e was scorbutic, four anoemic, four dropsical
two slightly) three anoemic & dropsical, one
noemic & scorbutic, one slightly dropsical and
orbutic, one emaciated & scorbutic, one emaciated
noemic & scorbutic - one is noted as very thin.

Boys ——— Seven were examined.

Two gained weight - one 1 lbs, one ½ lbs =
tal 1½ lbs. Five remained stationary.
Two were scorbutic, one scorbutic & dropsical
ne scorbutic & anoemic, one anoemic & very thin.

Girls ——— Ten were examined

Six gained weight - four 1 lbs, two ½ lbs =
tal 5 lbs.
Two lost weight - 1 lbs each = total 2 lbs.

Two remained stationary
ne was anoemic, one very thin & anoemic,
one slightly scorbutic & anoemic, two slightly
scorbutic & very thin, one scorbutic, anoemic &
very thin, one slightly scorbutic.

Coolies on Road Works

Men ——— Seventeen were examined

Nine gained weight - one 7 lbs, one 6 lbs, one 3 lbs,
one 2½ lbs, two 2 lbs, two 1½ lbs, one ½ lbs = total 26 lbs.
Seven lost weight - one 7 lbs, one 6 lbs, (had been sick)
one 5 lbs, one 3½ lbs, one 3 lbs, one 2 lbs, one 1 lbs =
total 27½ lbs. One remained stationary.

One was slightly scorbutic, three had
oedematous feet & legs but less so than when
last examined, one was scorbutic but less a
than formerly, one was scorbutic (but less so)
& anoemic.

Women ——— Twenty three were examined -

Nine gained weight, one 6 lb, one 4½ lb
one 3 lb, three 2½ lb, one 2 lb, one 1½ lb
and one ½ lb = Total 25 lb.

Ten lost weight one 4½ lb, one
3 lb, two 1½ lb, two 1 lb, four ½ lb =
Total 14½ lb.

Four remained stationary

One was increasingly dropsical (gained 4½ lbs. in weight on this account) one dropsical, one had oedema of the feet, two were anaemic & dropsical, one slightly dropsical & scorbutic

scorbutic, one anaemic & scorbutic, one (lost weight) was 6½ months pregnant. —

Boys ——— Eleven were examined.

Four gained weight - one 1½ lbs, one 1 lbs, two ½ lbs = total 3½ lbs.

Six lost weight - one 2 lbs, three 1½ lbs, one 1 lbs, one ½ lbs = total 8 lbs.

One remained stationary.

Three were scorbutic, three anaemic & scorbutic, two anaemic, one scorbutic & potbellied.

Girls ——— Nine were examined.

Two gained weight - one 2½ lbs, one ½ lbs = total 3 lbs.

Four lost weight - one 4½ lbs, one 1½ lbs two ½ lbs = total 7 lbs.

Three remained stationary

Two were anaemic, two scorbutic & one anaemic & scorbutic. ———

An improvement may be noted on the whole in the condition of the Coolies first examined since the introduction of the new rate of wage, but it is not so marked as it would have been had the new rate proved fully sufficient. Still all classes gained weight - the women most.

With regard to the Relief Coolies on road work however it will be seen that all except the women lost weight the girls & boys considerably. I can account for the difference in the effect of the increased wage only by the fact that the Coolies first examined were a much poorer set than those on the Road work & that the Road Relief Coolies more than the others lived on Raggi of which they have now been almost entirely deprived by the failure of supplies in the market. I was struck by the very slight improvement produced by the increased

This clear that if as wages are the price of grain also rises that no benefit will accrue to the starving recipients of the wage — J.T.

[illegible] fixed with reference

wage & questioned the Coolies themselves with regard to the Cause. They stated what I found to be true that the price of grain has risen in the local Market, & that they are paid so late at night 10 to 12 P.M. that the grain dealers who keep their shops open for their special convenience charge them considerably higher than the ordinary market rates & that they moreover sell them spoilt or inferior grain. They are thus unable to obtain the same proportionate amount of nourishment for the increased wage.

I am of opinion that the present (increased) rate of wage is insufficient to get the Coolies into proper working condition or to keep them in it or even in tolerable health.

In the healthy the increase in weight after a few days of comparative fasting which takes place after restoration to a diet little more than sufficient to maintain health strength, is quickly marked.

As an example, having to punish a female prisoner by plac her on three days Congee diet I ha her first carefully weighed, when I foun that she weighed 116½ lbs. After 24 hours of Congee diet (6½ oz rice) she weighed 112 lbs, having lost 4½ lbs in the time. After 48 hours on Congee diet she weighed 111½ lbs, & after 72 hours 110¾ lbs, but after 24 hours on ordinar diet she had regained nearly her original weight viz 116 (gain of 5¼ lbs) in twenty four hours.

I should not expect the Coolies on Relief works to im as rapidly as this on a sufficient diet for there can be little doubt that the digestive & assimilative powers of most of them, are much less active than in persons in good health but even making allowance for that I think they should have improved more rapidly than they have done, if the increased wage had been sufficient.

I have the honor to be
Sir
Your Most Obedt Servt
Alexander Ross Surgeon Major
Tellicherry [illegible]

No. 4782

The rise in prices of grain coincident with the increase of wage and allowance is unfortunate. Consequently there has been yet little or no improvement in the physical condition of the poor referred to in this report.

Madras
19.6.77

W. J. Cockburn M.D.
Deputy Surgeon General
Med. Divy [illegible]

An interesting report

Pres. to the
Surgeon General.

active than in persons in good
health but even making allowance
for that [illegible]
improve
done,
seem

No 384.
Forwarded to the
Chief Secretary for
submission to Government
W. R. Smith MD
Surgeon General I. M. D.
Fort St George
21st June 1877

No 1302
Transferred to the
Revenue (Famine)
Department.
[illegible]
Chief Secretary
June 1877
R 2-7-77

No 4770. 1877 Dy No 2581
19. 6. 77
From the Bellary Surgeon
Bellary
No 4949
do to the Dy Surgeon General
Presy Dist Madras
Dated 16th
Recd 20 } June 1877
No 109
Enclosure 3
Recd 22d June
~~[illegible]~~
Reporting the
Result of examination
of Relief & Road
Works in the neighbourhood of Bellary
on 10th June 1877

M S Surgeon Genl & Med Dept 15/7
do County Compiler &
Collector of Bellary
Board of Revenue
Famine Department
Transferred
20 July 1877

An interesting report
W. R. Smith MD
Surgeon Genl