(1) பக்கங்களின் எண்ணிக்கை 38

(2) புதுக்கித் திருப்பிய நாள் 12/88

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

நிர்வாகம் துறை

அரசாணை எண்.
மு. கோப்புத் தாள் எண். 2142

அச்சகம்
பலவகை

நாள் : 9-8-1889

198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

ஆவண: ஆ-1—18,000—15-8-87.

2142

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper:—

From Colonel H. M. VIBART, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Ootacamund, 27th July 1889, No. 343 E.W.

Adverting to para. 1713 A of the Public Works Code, I have the honor to forward, for orders, the accompanying letter from the Executive Engineer, West Coast division, submitting two statements of famine tools at Calicut and Vayitri.

2. The tools at Calicut are in good order and newly tarred, with the exception of 25 old pattern bulb jumpers, which are of no use and, in consequence, have been authorized to be sold by public auction.

3. It does not seem necessary to keep a stock of this class of tools in a district like Malabar in which famine never occurs. I would therefore request permission to transfer all the serviceable tools to Coimbatore for safe custody, with the stock in that division.

4. As regards the famine tools at Vayitri, I request you will be good enough to obtain the sanction of Government for their transfer to the head Tools and Plant—Provincial, for use on the Calicut-Vayitri road, as the quantity of ordinary tools required for the road are not available in the divisional stores.

ENCLOSURES.

From Colonel A. T. FRASER, R.E., Executive Engineer, West Coast Division, to the Superintending Engineer, IV Circle, dated Calicut, 23rd July 1889, No. 397.

With reference to your memorandum No. 411 W.C., dated 15th July 1889, I have the honor to forward, herewith, two statements of famine tools, one in charge of the Assistant Engineer at Vayitri and the other in charge of the divisional Storekeeper. The tools at Vayitri are separately entered in the sub-divisional return, but they are all issued on works and mixed up with the ordinary tools, though in good order. These famine tools might, therefore, be incorporated among the ordinary tools of the Vayitri sub-division.

STATEMENT of Tools (Famine) in charge of the Divisional Storekeeper, Calicut.

Item No.	Description of tools.	No.	Remarks.
1	Crowbars	90	
2	Jumpers	44	Inclusive of 25 sanctioned in Superintending Engineer's No. 411 W.C., of 15th July 1889, to be sold by public auction. The Sub-divisional officer, Calicut, is being asked to take necessary action for their sale.
3	Hand hammers	2,145	
4	Mamooties	19	

CALICUT,
23rd July 1889.

(Signed) A. T. FRASER, Colonel, R.E.,
Executive Engineer.

STATEMENT of Famine Tools in charge of the Assistant Engineer at Vayitri.

Item No.	Description of tools.	No.
1	Hammers, hand	526
2	Jumpers	6
3	Mamooties	444
4	Crowbars	10
5	Bill-hooks	9

CALICUT,
23rd July 1889.

(Signed) A. T. FRASER, Colonel, R.E.,
Executive Engineer.

ORDER—dated 9th August 1889, No. 2142 W., Public Works.

The proposals of the Superintending Engineer are sanctioned.

(True Extract.)

Captain, R.E.,
Under-Secy. to Govt., P.W.D.

To the Superintending Engineer, IV Circle.
" Examiner, Public Works Accounts.

Exd. P. L. Pereira.
Spare Copies

2142
2

GENERAL.
ACCOUNT.

Govt. of {1889} Madras.

PUBLIC WORKS.

Dated August, 9th.

Recd. *Encl.*

G.O., 9th Aug. 1889, No. 2142 W.

AUGUST.

Famine Tools

Proposal of the Superintending Engineer, IV Circle, to transfer all the serviceable — from Calicut to Coimbatore for safe custody, and for the use of those at Vayitri on the Calicut-Vayitri road, sanctioned.

2142/5

Appendix A to G.O., No. 2787 W., of 7th November 1884.

DETAILED STATEMENT of Famine Tools showing quantities in stock and demands made by Superintending Engineers.

Description of Articles.	I Circle.			II Circle.			III Circle.			IV Circle.			V Circle.			VI Circle.			Grand Total.
	Number Indented for.	Number in Stock.	Total.	Number Indented for.	Number in Stock.	Total.	Number Indented for.	Number in Stock.	Total.	Number Indented for.	Number in Stock.	Total.	Number Indented for.	Number in Stock.	Total.	Number Indented for.	Number in Stock.	Total.	
Axes, felling, 6 lb.	150	..	150	750	..	750	2,000	..	2,000	2,119	281	2,400	600	..	600	..	..	..	..
Do. country	..	..	..	300	14	300	5,000	..	5,000	788	271	1,059	..	..	..	550	6,400	550	550
Do. pick, 5 lb.	..	186	186	1,500	185	1,500	130,000	..	130,000	65,046	65,046	130,092	2,829	1,172	4,000	4,613	..	4,613	10,913
Bars, tamping, brass, 6'-1½" hole.	..	..	..	..	..	..	2,000	..	2,000	932	28	960	..	..	..	..	..	..	..
Basket, wicker	..	..	..	..	..	..	..	..	..	44,736	44,736	89,472	..	..	..	..	..	..	..
Bill-hooks, 2½ lb.	..	..	..	..	..	..	1,000	..	1,000	2,461	238	2,699	340	..	340	550	..	550	550
Chest, cash, W.I., large, 4' × 2' × 2'	..	..	..	30	..	30	6,000	..	6,000	61	39	96	16	..	16	11	..	11	66
Chest, cash, W.I., small	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	55	..	55	..
Crowbars, 14 lb.	30	..	30	27	3	30	100	..	100	5,684	26,795	31,479	4,200	700	4,900	1,250	1,500	2,750	2,750
Do. 16 lb.	3,600	..	3,600	..	3,302	3,302	4,000	..	4,000	3,046	325	3,371	..	..	..	650	..	650	650
Hammers, sledge, 10 lb.	..	..	..	..	..	..	2,000	..	2,000	18,550	28,928	47,478	..	2,297	2,297	..	3,500	3,500	3,500
Do. 8 lb.	..	..	..	..	..	..	12,000	..	12,000	..	23,369	23,369	194	..	194	2,000	..	2,000	2,000
Do. hard, 2 lb.	225	..	225	..	..	..	6,000	..	6,000	587	1,113	1,700	200	..	200	..	..	..	..
Do. stone-breaking, 3 lb.	..	..	..	954	2,046	3,000	1,500	..	1,500	1,920	..	1,920	1,000	..	1,000	..	..	..	..
Do. do. 2 lb.	..	..	..	..	..	..	2,000	..	2,000	4,800	..	4,800	..	..	..	..	..	..	..
Jumpers, steel, 6'-1" hole	..	..	..	597	..	597	1,000	..	1,000	3,502	66,139	72,144	4,689	8,582	17,961	4,744	7,000	16,487	16,487
Knives, country, for prickly-pear.	..	..	..	..	..	..	400	..	400	3,503	..	..	4,600	..	..	4,743	..	..	..
Do. do. for grass	..	..	..	2,522	..	3,508	400	..	400	384	384	384	..	50	50	..	..	..	..
Mamoties, 5 lb.	..	..	..	..	3,508	6,030	..	..	..	96	..	96	..	50	50	..	..	..	..
Do. 6 lb.	4,500	377	4,877	..	..	..	100	..	100	96	..	96	..	50	50	..	..	..	..
Do. 7 lb.	4,500	..	4,500	..	..	..	100	..	100	960	..	960	..	..	..	..	..	..	..
Measures, tin, for issuing food	..	..	..	..	..	..	1,000	..	1,000	4,183	675	4,858	..	..	..	50	60	110	110
Do. one seer	..	..	..	..	..	..	7,000	..	7,000	673	3	676	50	..	50	110	..	110	110
Do. half seer	..	..	..	..	..	..	1,500	..	1,500	1,201	2,750	3,951	1,447	173	1,620	1,650	..	1,650	1,650
Do. quarter seer	..	..	..	..	..	..	5,000	..	5,000	..	..	..	..	..	..	..	..	..	..
Needles, pruning, copper, 5 feet.	..	..	..	..	..	..	..	..	..	192	..	192	13	..	13	..	..	..	..
Picks, 5 lb.	..	..	..	..	..	..	50	..	50	..	96	96	..	..	..	..	..	..	..
Rods, measuring, teak, 10 feet.	..	..	..	..	..	..	..	..	..										
Rammers, cast-iron, 14 lb.	..	436	436	1,200	..	1,200	..	..	..										
Scales with chains and platforms, 5 cwt.	30	..	30	..	..	..	60	..	60										
Scales to weigh Rs. 500 with weights	..	..	..	..	..	..	..	..	..										

Detailed Statement of Famine Tools showing quantities in stock and demands made by Superintending Engineers—*cont.*

Description of Articles.	I Circle.			II Circle.			III Circle.			IV Circle.			V Circle.			VI Circle.			Grand Total.
	Number Indented for.	Number in Stock.	Total.	Number Indented for.	Number in Stock.	Total.	Number Indented for.	Number in Stock.	Total.	Number Indented for.	Number in Stock.	Total.	Number Indented for.	Number in Stock.	Total.	Number Indented for.	Number in Stock.	Total.	
Wedges, iron, 5 lb.	..	..					500	..		239			..	..	..	137	..		
Do. do. 6 lb.	..	..					500	..		240			..	..	..	138	..		
Do. do. 8 lb.	..	..	..	..	..	..	500	..	2,000	239	2	860	..	..	..	137	..	550	
Do. do. 10 lb.	..	..					500	..		140			..	..	..	138	..		
Weights, cast-iron, 56 lb.	..	300	..	300	..	..	..	500	..	500	1,920	..	1,920	130	..	130	..	..	..	..
Do. do. 28 lb.	..	30	..	30	..	..	..	50	..	50	192	..	192	13	..	13	..	..	..	..
Do. do. 14 lb.	..	30	..	30	..	..	..	50	..	50	192	..	192	13	..	13	..	..	..	..
Do. do. 7 lb.	..	30	..	30	..	..	..	50	..	50	192	..	192	13	..	13	..	..	..	..
Do. do. 4 lb.	..	30	..	30	..	..	..	50	..	50	192	..	192	13	..	13	..	..	..	..
Do. do. 3 lb.	..	30	..	30	..	..	..	50	..	50	192	..	192	13	..	13	..	..	..	..
Do. do. 2 lb.	..	30	..	30	..	..	..	50	..	50	192	..	192	13	..	13	..	..	..	..
Do. do. 1 lb.	..	30	..	30	..	..	..	50	..	50	192	..	192	13	..	13	..	..	..	..
Do. do. ½ lb.	..	30	..	30	..	..	..	50	..	50	192	..	192	13	..	13	..	..	..	..
Do. do. ¼ lb.	..	30	..	30	..	..	..	50	..	50	192	..	192	13	..	13	..	..	..	..
Mortar pans, 15″ × 5″	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ring gauges	..	..	..	..	..	..	..	..	..	..	33	33	..	..	..	..	..	..	..	..
Instruments.																				
Chains, iron, galvanized, measuring 100 feet	..	..	..	10	20	30	100	..	100	192	3	195	54	..	54	88	..	88		
Levels, Abneys, pocket	..	..	..	..	..	..	36	..	36	96	..	96	..	..	..	..	..	..		
Levelling instrument, dumpys, 14″	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	..	22		
Do. do. 12″	..	..	..	4	..	4	36	..	36	96	..	96	8	..	8	..	..	..		
Mathematical instruments, fish-skin case, small	..	..	..	..	..	..	80	..	80	96	..	96	..	..	..	..	..	..		
Mathematical instruments box, third class	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	..	11		
Prismatic compass with stand	..	..	..	..	..	..	36	..	36	96	..	96	6	..	6	22	..	22		
Staves, levelling, telescopic	..	..	..	4	..	4	36	..	36	192	..	192	8	..	8	22	..	22		
Tapes, metallic, measuring 100 feet	..	..	..	..	..	..	100	..	100	288	..	288	126	..	126	22	..	22		
Tapes, metallic, measuring 50 feet	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	55	..	55		

Appendix B to G.O., No. 2787 W., dated 7th November 1884.

List of Famine Tools to be supplied.

——	I Circle.	II Circle.	III Circle.	IV Circle.	V Circle.	VI Circle.	Total.
Axes, felling, 6 lb.	500	500	1,000	1,000	500	500	4,000
Bill-hooks, 2½ lb.	500	500	1,000	1,000	500	500	4,000
Crowbars, 14 lb.	1,500	..	..	..	1,500	1,500	4,500
Hammers, stone-breaking, 3 lb. ..	1,000	1,000	..	..	..	1,000	3,000
Mamoties, 6 lb.	5,000	5,000	..	..	5,000	5,000	20,000
Picks, 5 lb.	1,500	1,500	..	..	1,500	1,500	6,000
Rammers, cast-iron, 14 lb. ..	500	1,000	3,000	1,000	1,000	1,000	7,500

2142/4

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From the General Superintendent, Public Works Stores,					dated	5th	Aug.	1884, No. 571 S.
Telegram from the Superintending Engineer,	IV	Circle,	„	11th	„	„	„	
„ „ „ „	VI	„	„	11th	„	„	„	
Letter „ „ „	IV	„	„	11th	„	„	No.	292 C. E.W.
Telegram „ „ „	III	„	„	12th	„	„	„	
Letter „ „ „	V	„	„	13th	„	„	„	1828.
Telegram „ „ „	I	„	„	19th	„	„	„	
From the Government of Bombay,			„	21st	„	„	„	935 A.
„ Superintending Engineer,	V	„	„	22nd	„	„	„	1966.
„ General Superintendent, Public Works Stores,			„	11th	Sept.,	1884,	„	754 S.
„ Government of Bengal,			„	14th	„	„	„	3326 A.
„ Superintending Engineer,	VI	Circle,	„	15th	„	„	„	294 T.C.
Telegram from „ „	II	„	„	16th	„	„	„	
„ „ „	III	„	„	16th	„	„	„	
From the General Superintendent, Public Works Stores,			„	16th	„	„	„	770 S.

ORDER—dated 7th November 1884, No. 2787 W., Public Works.

In drawing attention to certain provisions of the Famine Code for the Madras Presidency, the Chief Engineer, in paragraph 8 of his memorandum, No. 2453 C., dated 8th December 1881, pointed out the necessity for making preliminary arrangements for the provision of an ample supply of tools, and instructed Superintending Engineers to indent on the General Superintendent, Public Works Stores, for the balance of probable requirements, after ascertaining the quantities of each kind in stock in the several divisions.

2. The papers above recorded show the numbers of the various descriptions of famine tools which are in stock in Public Works Circles, and the demands for new tools submitted by Superintending Engineers. The figures have been tabulated in the statement printed with these Proceedings as Appendix A.

3. The Government, having reviewed the demands, and compared them with the supplies now available in store for use on emergency, have determined to eliminate, from the indents, articles which it is considered unnecessary to keep permanently in stock, and of which it is believed a sufficiency can be readily and rapidly procured in local or adjacent markets, when occasion arises. In view also of the fact that the spare tools available in one circle can be quickly transferred to another where the demand happens to be in excess of the supply in hand, the Government have resolved to reduce the quantities indented for, so as to provide sufficiently for emergent relief works, and to avoid encumbering the stores of the Presidency with stocks for which requisitions must be exceptional. The quantities and descriptions of tools to be now supplied are shown in Appendix B, and the General Superintendent, Public Works Workshops and Stores, will at once put in hand the manufacture of such of the articles as can be made up satisfactorily and cheaply at the workshops, and will frame a special indent on the Home Government for the remainder.

4. The tools, when supplied, will be kept in the Presidency Public Works Stores, being distributed nominally against the several circles. Superintending Engineers will be apprised, in due course, of the numbers standing against their respective circles; and it will be their duty, at the commencement of each financial year, to examine carefully the lists of relief tools at their disposal, and to bring to notice any deficiencies, whether in number, description, or quality, which, in view of possible contingencies, they consider should be made good.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Chief Engineer for Irrigation.
" Examiner, Public Works Accounts.
" Revenue Department.

Exd. A. Grubert.
Spare Copies

214/6

GENERAL.
ACCOUNT.

Govt. of 1884 Madras.

PUBLIC WORKS.

Dated November, 7th.

Recd. *Encl.*

G.O., 7th Nov. 1884, No. 2787 W.

NOVEMBER.

Famine Tools

Orders on correspondence showing the descriptions of — in stock in Public Works circles and the demands for new tools.

242

Supg. Engineer's office, 4th circle,
Camp Polacaum 27th July 1889.

No. 343
M

From,

Colonel H. M. Vibart, R.E.,
Supg. Engineer, 4th circle,

To,

The Chief Engineer,
P.W. Department.

Sir,

Encls: 3
1 Ol letter No. 397 of 23-7-89 from the Ex Engr. West Coast Dn. with 2 statements

Adverting to paragraph 1734 of the P.W. Code, I have the honor to forward for orders the accompanying letter from the Executive Engineer, West Coast Division, submitting two statements of famine tools at Calicut and Vayitri.

2. The tools at Calicut are in good order and newly tarred with the exception of 25 old pattern bulb jumpers, which are of no use and in consequence have been authorized to be sold by public auction

2142/8

auction.

3. It does not seem necessary to keep a stock of this class of tools in a district like Malabar in which famine never occurs. I would therefore request permission to transfer all the serviceable tools to Coimbatore for safe custody with the stock in that division.

4. As regards the famine tools at Vayitri I request you will be good enough to obtain the sanction of Government for their transfer to the head Tools and Plant, Provincial, for use on the Calicut Vayitri road as the quantity of ordinary tools required for the road are not available in the divisional Stores.

I have the honor to be,
Sir,
Your most obedt Servt,
Henry St Vibart Colonel, R.E.,
Supg. Engineer, 4th Circle.

M.

G.O. No. 2707 W a/7-11-84
Memo No. 2453 ch/8-12-88

8WC/L.7058

(15)

From
The Supg: Engineer
Fourth circle.

Dated 27-7-89.

No. 363
Encl: 3

Farming Tools:—

Forwarding 2 statements of — and requesting permission to transfer all the serviceable Tools to Coimbatore for safe custody. Requesting also in the case of the — at Vayitri to obtain sanction of Govt for their transfer to the head "Tools and Plant" "Provincial" for use on the Calicut-Vayitri Road.

Encl 7 any.

The proposals of the Supt Engineer are sanctioned.

WCB
3.8.89

Rued
5.8.89

Print with circle

C.E. IV Circle
Supg. P.W.A.
1918

A48 3078. Hm 678.
9/8/8

No. 397 Enclosures

Executive Engineer's Office,
West Coast Division,
Calicut, 23rd July 1889.

From

The EXECUTIVE ENGINEER,
WEST COAST DIVISION.

To

The SUPERINTENDING ENGINEER,
FOURTH CIRCLE.

Sir,

With reference to your Memorandum No. 411/W.C dated 15th July 1889, I have the honor to forward herewith, two statements of Farming tools, one in charge of the Assistant Engineer at Vayitri, and the other in charge of the Divisional Storekeeper. The tools at Vayitri are separately entered in the Sub Divisional return, but they are all issued on works and mixed up with the ordinary tools though in good order. These farming tools might therefore be incorporated among the ordinary tools of the Vayitri Sub Division.

I have the honor to be,
Sir,
Your most obedient Servant,

A Fraser
Colonel R.E.
Executive Engineer.

SUPG. ENGINEER'S OFFICE
NO. 311 W.C.
26 JUL.89
F. WY. D.
FOURTH CIRCLE

FROM

THE EXECUTIVE ENGINEER,
WEST COAST DIVISION.

To

THE SUPERINTENDING ENGINEER,
4TH CIRCLE.

Encl. no: 1/343/89 from the Supdg Engr 4th Circle

Dated 29th
Despatched 24th July 1889.
Received

No. 397

Enclosures. 2.

SUBJECT.

Famine Tools.

Forwards 2 statements of ——— with a request as to the disposal of those of the Vayittri Sub Dn.

Statement of Tools (Famine) in charge of the Divisional Storekeeper Calicut

2142/10 3

Item No	Description of Tools	No.	Remarks.
1	Crow bars	90	
2	Jumpers	44	Inclusive of 25, sanctioned in Supdg Engineers No 411 W.C. of 15.7.89, to be sold by public auction. The Sub Divisional Officer Calicut, is being asked to take necessary action for their sale.
3	Hand Hammers	2145	
4	Mammoties	19	

Calicut
23 July 1889.

A J Fraser Col R.E.
Executive Engineer

SUPDT. ENGINEER'S OFFICE
RD. 2511
26 JUL. 89
FOURTH CIRCLE

Statement of pioneer tools in charge of the Assistant Engineer at Vayittri 2142/11 4

Item Nos	Description of tools	Nos	Remarks
1	Hammers hand	526	✓
2	Jumpers	6	✓
3	Mammoties	444	✓
4	Crow bars	10	✓
5	Bill hooks	9	✓

Calicut
23rd July 1889.

Asstraser Col. R.E.
Executive Engineer.

SURG. ENGINEER'S OFFICE
NO. 1511
26 JUL 89
R. W. D.
FOURTH CIRCLE

Appendix to Circular No 2453 G. dated 8th Dec. 1883.

Number and description of Tools required for 1000 laborers on Famine Relief Works.

2142/15

Description of Tools	Supg. Engr. I. Circle	Supg. Engr. II Circle	Supg. Engr. III Circle	Supg. Engr. IV Circle	Supg. Engr. V. Circle	Supg. Engr. VI Circle	Average
Axes, Cooantry	"	10	"	"	"	"	10
" Felling	"	25	"	"	"	"	25
Bars, Jamping Brass 5'	"	50	400	350	100	200	220
Baskets	"	700	"	200	500	"	10
Bill hooks	1	10	50	"	20	"	26
Cash Chest	"	1	1	1	1	1	1
Chains	100	1	1	2	2	4	2
Crowbars	"	100	50	25	100	100	80
Hammers, Hand	"	"	350	"	"	"	350
" Sledge	"	"	50	20	"	"	35
" Stone breaking	"	"	"	200	100	"	134
Instruments, Overseers case of	"	"	"	1	"	"	1
Jumpers	"	"	10	5	"	"	8
Knives, Curved for prickly pear	"	20	"	"	"	"	20
" Grass	"	"	50	"	"	"	50
Level, Abney's pocket, mounted on thin stick with Sight Staff graduated in ft & ins	"	"	"	1	"	"	1
Levelling Instrument	300	1	1	"	"	1	1
Mamooties Sets.	"	200	350	350	600	400	366
Measures for issuing food:	"	1	"	"	"	4	4
" One Seer,	"	1	"	"	"	"	1
" Half "	"	1	"	"	"	"	1
" Quarter "	"	"	"	100	"	"	100
Mortars pans, Iron 15"×5"	"	"	10	"	"	"	10
Needles, Priming, Copper, 5 feet long	"	"	50	"	"	"	50
Picks 5 lbs	"	40	1	"	"	"	1
Prismatic Compass	"	3	"	"	30	"	35
Rammers	"	"	"	"	"	10	6
Rods, Measuring	2	"	1	"	1	"	2
Scales and Weights, Sets.	"	"					

Appendix to Circular No 2453 G. dated 8th Dec. 1883.

Number and description of Tools required for 1000 laborers on Famine Relief Works.

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Description of Tools	Supg. Engr. I. Circle	Supg. Engr. II Circle	Supg. Engr. III Circle	Supg. Engr. IV Circle	Supg. Engr. V. Circle	Supg. Engr. VI Circle	Average.
Scales, Bullion, to weigh 500 lbs. Sets	"	2	1	"	"	1 Set	2
Levelling	"	1	3	6	4		3
Tapes, Measuring	"	"	10	"	"		10
Wedges 5 to 10 lbs.							

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Remarks by Superintending Engrs

I Supty Engr I Circle — The Crowbars should be simple pieces of round bar, 5½' long, sharpened at one end and quite plain at the other. The Mamooties are not to exceed 7 lbs. The kinds of those most in vogue in the Circle forwarded. The number of Instruments required will depend on the work to be laid out.

— " — II — " — The Crowbars to be 4' to 5' long. The Mamooties 6 lbs in weight with the handle almost parallel to the Blade as the English made Mamooties are not properly tempered, and be entirely of Steel. The other articles specified The Pickaxes should be Steeled and the Stone breaking hammers should weigh 3 lbs. Dumpy 16" and Cash Box, Small wooden. are: Measuring rods 10' Measuring Tape 50' Chain 100' Levelling Instrument

— " — III — " — The Crowbars to be 1½ lbs. the Mamoo- English, 5 lbs, and the Sledge Hammers 8 lbs. Of the Hand Hammers 250 to be 2 lbs. weight and 100, 1 lb. Of the Pickaxes 250 would be English 7 lbs, and 50 Country 5 lbs. The Picks should be 5 lbs weight, the Jumpers Steel 6×1½": 15 lbs, and the Levelling Instrument a Dumpy Level. The Chain and Tape to measure 100' each.

— " — IV — " — Of the Mamooties 300 to weigh 4½ lbs each, and 50, 5 lbs. — of the Pickaxes 300 to weigh 5 lbs each and 50, 6 lbs. The Jumpers should be cast Steel, and the Stone Breaking hammers 2 lbs Cast Steel. The Tapes to be Chesterman's 100', and in Chains 100' with arrows. — Beyond being of a serviceable form no special pattern of Tools is required.

— " — V — " — For every 1000 laborers a weight of 2 Each Chest should be provided and a Chest of the size known as the Ganges Canal pattern for every 3000. Each — should be furnished with 2 Chests of each size. The following to be held in Reserve for issue to each District — 2 ten inch Dumpy levels, 4 sets Levelling Staves, 2 sets plotting scales, 2 metal Straight edges, 6 metal 18 rolling parallel rulers, 1 case of plain Mathematical Drawing Instruments 1st Class and 1 2nd Class and 2 color boxes of tin with 6 colors in each brushes and 6 China Saucers.

— " — VI — " — The Crowbars to be about 15 lbs and the Mamooties 4 lbs weight. — Pickaxes similar in pattern to those in use by the people of the Dist — the pattern made tools being more suitable, than English varies the Blade is set with reference to the handle. The Picks should be very very much chiefly in the weight of 180', and the Rods 9'. Of the measures 2 sets are for running grass and 2 for light about 6 lbs. The Tapes & Chains to measure Curvy Staff.

Appendix to Circular No 2453 G. dated 8th Dec. 1883.

Number and description of Tools required for 100 laborers on Famine Relief Works.

2142/15

Description of Tools	Supg. Engr. I. Circle	Supg. Engr. II Circle	Supg. Engr. III Circle	Supg. Engr. IV Circle	Supg. Engr. V. Circle	Supg. Engr. VI Circle	Average.

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P . W . DEPARTMENT .

No. 2453 C dated 8th.December 1883.

C I R C U L A R M E M O R A N D U M.

With reference to the Famine Code for the Madras Presidency which has recently been published for general information in the Fort St. George Gazette, and copies of which have been separately distributed to officers of the Public Works Department, the Chief Engineer desires to draw attention to certain provisions of the Code, which should be carefully studied in anticipation of the occurrence of famine, with a view to such preliminary arrangements being made as are specifically laid down in the Code.

2. It will be observed that famine relief works are classed under two main heads:-

(a) Professional Agency Works.

(b) Civil Agency Works.

Public Works officers are more especially concerned with class (a) works, and the arrangements for the execution of these demand their more immediate attention.

The nature of class (a) works is explained in section 18 Chapter I, and the rules under which they are to be carried out will be found detailed in Chapter IV.

In

In section 27, Chapter I, it is laid down that the P.W. Department should constantly maintain in their several Budgets a number of (a) works for each District, sufficient for four years' ordinary labor. This matter should be kept in view in the submission of future Budgets, and generally throughout the year; estimates being submitted for sanction from time to time,- so that the list of works available for famine relief may contain as many duly sanctioned projects as possible, and the waste of money inseparable from the execution of ill-considered schemes, taken up on emergency, may be avoided.

6 The adequacy of the scheme of works thus laid down should be specially reported on by Superintending Engineers in a separate memorandum, to be submitted as soon as possible after the issue of the P.W. Budgets. It will also be noticed in the Circle Administration Reports.

7. Superintending Engineers will at all times have on record the data for framing the task work table referred to in section 51, so as to be in a position to afford the requisite information to the Civil Authorities whenever called on.

8. The provision of an ample supply of tools and treasure chests for both (a) and (b) works is a matter regarding which preliminary arrangements are necessary, vide section 110 of Code. Certain quantities of tools from the last famine are now in store in various Districts. Superintending Engineers will ascertain the quantities of each kind in stock, and will then submit indents on the General Superintendent P.W. Stores for the balance of probable requirements. It should be distinctly specified on the indents that the articles are required for famine relief purposes. The articles indented for

will, after sanction by Government, be procured by the General Superintendent either locally or from England, and will be kept in stock at Madras for issue when an emergency may arise. There will be nothing to prevent such tools being issued at any time for works in progress, provided they are immediately replaced. The authorised stock for famine relief purposes which will be laid down, on complete information being received in compliance with the present orders, should always be maintained The General Superintendent P.W. Stores will be answerable that this is done.

9. It may happen that the local stock of tools will in time so far deteriorate as to be unfit for use, or may be disposed of under distinct orders of Government. Superintending Engineers should keep this in view, and arrange for the balance being maintained in the General Stores at Madras. To admit of this being done, the General Superintendent will issue to Superintending Engineers annual lists of famine tools in stock distributed against Districts. Superintending Engineers will thus have an opportunity of correcting excesses or deficiencies.

10. Attached, as an Appendix to this Circular, is a statement shewing the number and description of tools which the several Superintending Engineers consider necessary for a thousand laborers on famine relief works. It will probably be found useful in framing indents. The number and description of tools will of course vary in practice with the composition of the gangs and the kind of work to be performed.

But,

But, as a general guide for making preliminary arrangements, the table given on page 61 of the Code may be consulted with advantage.

Col. R.E.

Chief Engineer P.W.D.

To

Superintending Engineers
Genl. Suptt. P.W. Stores
Examiner P.W. Accounts.
Chief Engr. for Irrigation.

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List of correspondence connected with Circular Memorandum No. 2453 C dated 8th. December 1883.

G.O. No. 1697 W dated 9th. July 1881

2016 W dated 17th. August 1881

3197 W dated 31st. Decr. 1881

3198 W dated 31st. Decr. 1881

405 I dated 13th. June 1882

466 I dated 13th. June 1882

1475 A W dated 13th. June 1882

1475 B W dated 13th. June 1882

2695 W dated 16th. Octr. 1882

2696 W dated 16th. Octr. 1882

3004 W dated 13th. Novr. 1882

3346 W dated 18th. Decr. 1882

3347 W dated 18th. Decr. 1882

881 W dated 17th. March 1883

2062 W dated 30th. July 1883

1006 dated 18th. Augt. 1883 (Revenue)

Report of the President & Members of the Railway Committee dated 24th. October 1883.

Govt. of [illegible] Madras.

PUBLIC WORKS.

Dated

Read. Encl.

G.O. 9 Aug 1889 No. 2426

Famine tools

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Proposal of Mr SE Waite to transfer all the perishable — from Calicut to Coimbatore for safe custody, and for the use of those at Vayitri on the Calicut Vayitri road, sometimes

5/3

Eg 5/8
10