(1) பக்கங்களின் எண்ணிக்கை 64

(2) புதுக்கித் திருப்பிய நாள் 9/92

(3) ஆதாரங் குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பொதுப்பணித் துறை

அரசாணை எண். 829 W		**அச்சகம்**
மு. கோப்புத் தாள் எண்.		பலவகை
நாள் : 27.3.1893		199 .

235

கண்டபடி கையாளவோ கூடாது.

1—18,006—6-9-90.

27th March 1893, No. 829 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following papers:—

From the Superintending Engineer,	II Circle,	dated	7th March 1893,	No. 559 G.L.
" " "	III "	"	7th " "	" 3211.
" " "	IV "	"	26th Feb. "	" 74 W.
" " "	V "	"	21st Dec. 1892	" 529 W.
" " "	V "	"	2nd March 1893	" 80 W.
" " "	V "	"	11th " "	" 98 W.
" " "	V "	"	11th " "	" 99 W.
" " "	VI "	"	7th Feb. "	" 1663 T.C.
" " "	VI "	"	17th " "	" 1713 T.C.
" " "	VI "	"	11th March "	" 1858 T.C.

Order—dated 27th March 1893, No. 829 W., Public Works.

The papers quoted above are replies to the Chief Engineer's memorandum No. 4894 C., dated 22nd November 1892, in which information was called for as to the number and description of tools that should be kept in stock in readiness for use on famine works.

2. On consideration of the matter, His Excellency the Governor in Council is of opinion that the number of tools should, as suggested by the Superintending Engineer, V Circle, be calculated on the population of each district and that the description of tools to be kept in stock should be limited to those usually in greatest demand. If tools of other kinds are required, they must be specially obtained when the necessity arises.

3. The following tools will accordingly be kept in stock for famine relief works in the proportions shown :—

Axes, felling, at 5 per cent. of total number of tools.
Bill-hooks, at 7½ do. do. do.
Rammers, cast-iron, at 7½ per cent. of total number of tools.
Hammers, stone-breaking, at 10 per cent. of total number of tools.
Pickaxes, at 15 per cent. of total number of tools.
Crowbars, at 15 do. do. do.
Mamooties, at 40 do. do. do.
Wooden cash chests, 1 for every 2,000 of 5 per cent. of the population.
Scales, 5 cwt, 1 for every 2,000 of 5 per cent. of the population.

4. It is assumed * that 5 per cent. of the whole population of areas liable to famine may have to be provided for on relief works, but it will be sufficient if tools are provided for 1 per cent. only, or one tool for every group of five laborers. This proportion need not, however, be provided in advance for all districts of the Presidency. Famine is not likely to affect the whole Presidency at any one time, and, looking to existing facilities of transport, it will probably be sufficient to allow, as

---

* *Vide* Proceedings of the Board of Revenue, No. 714, dated 28th October 1892.

a reserve stock of tools, one-half of the proportion fixed above. The accompanying statement has been prepared on this basis. It is circulated to Superintending Engineers for such remarks as they may wish to offer. It will be seen that no provision has been included for the West Coast and Nílgiri districts which are not liable to famine, and a deduction has been made for the delta taluks of the Godávari, Kistna, Nellore, Tanjore, Trichinopoly and Tinnevelly districts.

5. On receipt of replies to these Proceedings, the scale will be finally fixed and the requisite redistribution of tools will be authorised.

(True Extract.)

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

To Superintending Engineers.
" the Consulting Architect.
" the Chief Engineer for Irrigation.
" the Revenue Department.

Exd. A. D. Xavier,
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1893} Madras.

PUBLIC WORKS.

Dated March, 27th.

Recd. *Encl.*

G.O., 27th Mar. 1893, No. 829 W.

MARCH.

Tools

Circulating to Superintending Engineers, for such remarks as they may wish to offer, a statement showing the number and description of — required to be kept in stock for famine relief works.

3

Accompaniment to Proceedings, No. 829 *W., dated 27th March* 1893.

STATEMENT showing the number of tools required to be kept in stock for famine relief works.

Districts.	Population as per census of 1891.	Total number of tools required at 1 per cent. of population.	Axes, felling, at 5 per cent. of the total number of tools.	Bill-hooks at 7½ per cent. of the total number of tools.	Rammers, cast-iron, at 7½ per cent. of the total number of tools.	Hammers, stone-breaking, at 10 per cent. of the total number of tools.	Pickaxes at 15 per cent. of the total number of tools.	Crowbars at 15 per cent. of the total number of tools.	Mamooties at 40 per cent. of the total number of tools.	Wooden cash chest for every 2,000 of 5 per cent. of population.	Scale, 5 cwts., for every 2,000 of 5 per cent. of population.
Ganjam	1,893,813	18,938	947	1,420	1,420	1,894	2,841	2,841	7,575	47	47
Vizagapatam	2,795,054	27,950	1,397	2,096	2,096	2,795	4,193	4,193	11,180	70	70
Godávari	(a) 983,931	9,839	492	738	738	984	1,476	1,476	3,935	25	25
Kistna	(a) 1,159,420	11,594	580	870	870	1,159	1,739	1,739	4,637	29	29
Nellore	(a) 1,172,688	11,726	586	880	880	1,172	1,759	1,759	4,690	29	29
Cuddapah	1,268,887	12,688	634	952	952	1,269	1,903	1,903	5,075	32	32
Kurnool	853,034	8,530	427	640	640	853	1,279	1,279	3,412	21	21
Bellary	911,579	9,115	456	684	684	911	1,367	1,367	3,646	23	23
Anantapur	707,555	7,075	354	531	531	707	1,061	1,061	2,830	18	18
Chingleput	1,137,333	11,373	569	853	853	1,137	1,706	1,706	4,549	28	28
North Arcot	2,178,226	21,782	1,089	1,634	1,634	2,178	3,267	3,267	8,713	54	54
South Arcot	2,159,786	21,597	1,080	1,620	1,620	2,160	3,239	3,239	8,639	54	54
Tanjore	(a) 341,848	3,418	171	256	256	342	513	513	1,367	9	9
Trichinopoly	(a) 1,041,815	10,418	521	781	781	1,042	1,563	1,563	4,167	26	26
Madura	2,608,150	26,081	1,304	1,956	1,956	2,608	3,912	3,912	10,433	65	65
Tinnevelly	(a) 1,634,514	16,345	817	1,226	1,226	1,634	2,452	2,452	6,538	41	41
Salem	1,962,566	19,625	981	1,472	1,472	1,962	2,944	2,944	7,850	49	49
Coimbatore	1,999,432	19,994	1,000	1,500	1,500	1,999	2,999	2,999	7,997	50	50
Total ..	....	268,088	13,405	20,109	20,109	26,806	40,213	40,2.3	107,233	670	670
Fifty per cent. of the total ..	....	134,044	6,703	10,055	10,055	13,403	20,106	20,106	53,616	335	335
Deduct the number of tools in stock ..	....	..	6,054	6,296	10,736	123,747	200,682	49,170	240,543	2	28
Balance required ..	....	..	649	3,759	681	110,344	180,576	29,064	186,927	333	307

(a) The population of delta taluks has been excluded. The figures are in this case taken from the census of 1881, those for 1891 not being available as yet.
Block figures show excesses.

C.R. No 2007

829/18

1.

The suggestion of the
C.E. D. that the
preparation of separate
districts should form
the basis on which
the number of tanks
should be calculated
I think sound
in principle. —
The principle however
be applied only to
those areas in which
there is a possibility
of relief works being
required.
e.g. Tanjore Delta might
be omitted altogether
(not Pattukottai taluq).
This done the
limit of 1 tank for
each group of
5 possible famine
labourers appears
to be a good
one — the quantity

I think it will be advisable to ~~set [illegible] statements of [illegible] for requirements on the probable [illegible] [illegible] [illegible] likely that [illegible] be those of famine all over the Presidency & [illegible] of [illegible] as [illegible] they are [illegible] to the [illegible] of [illegible] it will not be [illegible] to keep [illegible] more than 60% of the totals, considering the [illegible]~~

almost [illegible] with

the exception of Kistna

20% in the ~~[illegible]~~ delta

might be reduced

to 15% and 2½%

added into

the works and

Revenues C.D.

OCW

4-3-93

C. E. I.

Please let me know for the information of D. W. those taluks in which deltas are situated.

Maj

16/3/93.

Thro' Mr. E. I.

Please name the deltas for which the information is required

BH

16-3-93

Mr. E. I.

All the deltas.

Maj 16/3

The following are the Talugs in which deltas are situated

BH

16-3-93

Tanuku Talug } Godavari District
Bhimavaram do
Ellore – do
Narsapur – do
Amalapur – do
Ramachandrapur do

Bezwada Talg } Kistna Dist
Gudivada do
Bandar do
Repalle do
Bapatla do

Nellore } Nellore Dist
Gudur
[illegible]

Cauvery Delta Tanjore District	Tanjore Taluq. Kumbakonam do Shiyali Taluq. Mayavaram do Nannilam do Negapatam do Mannargudi do Tirutturaipundi do
Cauvery Delta Trichinopoly Dist	Trichinopoly Taluq.
Srivaikuntham Tinnevelly Dist	Tenkarai Taluq.

IQ. To
16.3.93

1Ch.
17-3-93

17.3.93

829/6

The suggestion of the S.E.V that the population of each District should form the basis on which the number of tools should be Calculated is I think Correct in principle.

It should however be applied only to those areas in which there is a possibility of Relief Works having to be provided. E.g. Tanjore Delta might be omitted altogether (not Pattukotai Taluq). This done the limit of 1 tool for each group of 5 possible famine labourers appears to me to be a good one. The quantity of tools required on this basis might be worked out for each District.

The population of the Delta Taluqs of the Kistna Godavari and Tanjore Dts as well as

I think it will be advisable to get new statement of famine tool requirements on the principles proposed — doing it by Govt Order. As it is in the highest degree unlikely that there would be stress of famine ll over the Presidency nd means of carriage re so much better han they were owing to the extension of Railways, t will not be necessary o keep ready more than ay 50% of the tools onsidered to be required s arrived at on the ystem now proposed.

Initialled, G.T.W.
6/3/93

the Nilgiris & the West Coast might be omitted.

The distribution of this 1% of population into description of tools seem also to be about right with the exception of Crowbars. 20% is too high. It might be reduced to 15% - and 2½% added on to Bill hooks and Rammers. C.J.

Initialled, O.v.B.
4.3.93.

Xd/ Fml

Statement showing how the population of Delta Districts has been arrived at.

Districts	Population as per census of 1891	Delta taluks	Population of Delta taluks as per census of 1881	Total population of Delta Taluks	Population of Districts excluding Delta taluks.
Godavari	2,078,234	Tanuku	188,306		
		Bhimavaram	108,599		
		Ellore	149,308		
		Narsapur	200,153		
		Amalapuram	227,157		
		Ramachendrapur	220,780	1,094,303	983,931
Kistna	1,853,106	Bezvada	82,895		
		Gudivada	99,233		
		Bunder	175,482		
		Repalli	184,340		
		Bapatla	151,736	693,686	1,159,420
Nellore	1,461,881	Nellore	163,740		
		Gudur	125,453	289,193	1,172,688
Tanjore	2,227,514	Tanjore	375,086		
		Kumbakonam	370,723		
		Shiyali	114,041		
		Mayavaram	238,994		
		Nannilam	220,202		
		Negapatam	216,867		
		Mannargudi	181,650		
		Tirutaraipundi	168,103	1,885,666	341,848
Trichinopoly	1,377,333	Trichinopoly	335,518	335,518	1,041,815
Tinnevelly	1,917,624	Tenkarai	283,110	283,110	1,634,514

Statement showing the famine tools in stock in Circles and the P. W. Stores Division.

Not to be printed

	Axes Felling	Bill hooks	Crowbars	Hammers stone breaking	Mamooties	Pick axes	Rammers	Wooden cash chests	Scales 5 cwt.	Remarks
I Circle	505	500	2,237	1225	5397	3,549	506			
II Circle	-	-	5,802 ~~4,302~~	6,046 ~~2,046~~	& 4,339 ~~3,339~~	185	-	-	-	
III Circle	470	891	14,129	34,125	1,36,585	1,20,155	935	2	28	
IV Circle	711	1,251	25,394	30,551	54,875	51,854	3438	-	-	
V Circle	-	-	996	2,295	6,986	941	63	-	-	
VI Circle	-	154	360	5	3,769	1,590	-	-	-	
P. W. Stores	4,368	3,500	252 ~~1,752~~	x ~~52,500~~ 49,500	& ~~29,592~~ 28,592	22,408	5,794	-	-	x Includes Hammers, Hand.
Total	6,054	6,296	~~50,670~~ ~~49,170~~ 49,170	~~1,26,747~~ ~~1,23,747~~ 1,23,747	~~2,41,543~~ ~~2,40,543~~ 2,40,543	2,00,682	10,736	2	28	

& vide G.O. 902 Wd/18-4-93.

8/8

List of Famine tools to be kept in stock in readiness for future emergencies.

8/9

Description	Kistna Eastern Division	Nellore Division	Total required to be kept in stock in II Circle.
Ordinary tools			
Chains measuring 100 feet	8	-	8
— Do — 50 feet	12	-	12
Crowbars	1,723	600	2,323
Hammers stone breaking	76	2,000	2,076
— Do — sledge	1	-	1
Hatchets stone cutting	3	-	3
Jumpers	3	-	3
Mamaties Europe & Country	1,306	1,100	2,406
Picks	164	30	194
Scientific Instruments.			
Levelling Instrument Cashiens Pensible	-	4	4
Mathematical Instrument boxes, 3rd Class	-	4	4
Staves levelling Gravatts	-	8	8

Superintending Engineer
II Circle.

4-3-93

Superintending Engineer's Office.

No. 559 G.L.

II CIRCLE, Bezwada
Dated 7th March 1893.

829/D

From,

J. W. Martin Esquire,
Superintending Engineer,
II Circle.

To,

The Chief Engineer,
Public Works Department,
Madras.

Sir,

[illegible]
+ file with B.
D.S.
10-3-93

With reference to your No. 4894 C dated 22nd November 1892 I have the honor to forward, herewith, a list showing the Famine tools required in the Divisions of this Circle to be kept in readiness in stock for future emergencies.

I have the honor to be,
Sir,
Your most obt. Servant,

J W Martin
Superintending Engineer
II. Circle.

4-3-93.

P. W. CURRENT No. 2285

From

The Supdg Engineer
2nd Circle

To

The Chief Engineer
P.W.D.

Recd. 10.3.93

Dated 7 March/93

No. 559. E6

Enclos 1.

Famine Tools –
Submits a list of –
required in Divisions
in the 2nd Circle.

No. 2453 C a/ 8-12-83
" 2787 W . 7-11-84 ✓
" 2882 W . 3-11-82 ✓
" 1029 W . 13-4-89 ✓
" 161 W . 21-1-89 ✓
" 2333 W . 24-8-89
" 2749 W . 2-10-89 ✓
" 3200 W . 11-11-89
" 1475 W . 28-5-90 ✓
" 1552 W . 5-6-90 ✓
" 1989 W . 21-7-90 ✓
" 2330 W . 29-8-90 ✓
" 2102 W . 2-8-90 ✓
" 2476 W . 16-9-90 ✓
" 2518 W . 20-9-90 ✓
" 1096 W . 20-4-91 ✓
" 3182 W . 12-11-83 ✓
" 3055 W . 14-11-91 ✓
" 4894 C . 22-11-92 ✓
" 4895 C . 22-11-92 ✓
" 843 C . 23-2-93 ✓
" 1113 C . 9-3-93

Statement showing the number of Famine tools required for future emergencies.

829/11

Names of tools	Tools prepared to be retained			Tools prepared to be retained in the Circle
	Bellary	Cuddapah	Kurnool	
Axes of sorts	1199	172	50	1412
Anvils	1			1
Bars	24			24
Billhooks		200	189	389
Blocks Double	1			1
Boxes Carpenters Tools	1			1
Beams		6		6
Buckets	5			5
Ballast gauges	6			6
Cash chests Iron	3			3
Cash chests Wood	2			2
Crowbars	2435	3342	6213	11990
Chisels	1			1
Clamps	9			9
Cross staff	11			11
Chains, iron, Galvanized	7			7
Desks	4			4
Funnels	4			4
Gauge boards	1			1
Hammers	29727	10100	20787	60614
Hatchets		55		55
Jumpers	50	10		60
Levels, masons	1			1
Mamooties	42,418	10,000	41,736	94,154
Mallets	3			3

Names of tools	Tools prepared to be retained.			Tools prepar to be retain in the Circ
	Bellary	Cuddapah	Kurnool	
Measuring rods	17			17
Needles	3	1		4
Nippers	2			2
Picks	35,492	11000	44360	90852
Plate, iron, for beam weighing		12		12
Rammers	240	700	70	1010
Scales	3			3
Spades	4225			4225
Spoons	6			6
Saw hand	15			15
Smiths chest	2			2
Tampers		116		116
Table camp pieces	2			2
Wedges	20			20
Weights	118	232		350.

P.W. E/2252/93

AtFraser Col: R
Supdg: Engineer
III Circle

Supdg: Engrs office
III Circle
7-3-93

82/12

No. 3211

Superintending Engineer's Office,
3RD CIRCLE.
Bellary 7th March 1893.

FROM Colonel A. T. Fraser R.E.
SUPERINTENDING ENGINEER,
IIIRD CIRCLE.

To
THE Chief Engineer
P.W.D
Madras.

Sir,

Enclosures.
1

Adverting to your memo No: 4894C dated 22nd November/92, I have the honor to forward herewith a statement showing by divisions the numbers of each description of Famine tools that should be kept in readiness for future emergencies.

I have the honor to be
Sir
Your most obdt Servt
AtFraser Col: R.E.
Superintending Engr
III Circle.

P. W. CURRENT No. 22 [illegible]

From, Col A. J. Frazer R.E.
~~The~~ Superintending Engineer,
IIIrd Circle,
Bellary.

829/13

To,
The Chief Engineer
P.W.D.
Madras

Dated 7th March 1893.
Received 9-3-93

Enclosures. 1

No. 3211

Subject.

Famine Tools required for future emergencies -
Forwarding a statement showing —

No. 74/W

Supdg. Engr. Office 4th
26th February 1893.

829/14

From,
J. C. Larminie Esq.
Superintending Engineer
4th Circle,

To
The Chief Engineer
P. W. Department.

Sir,

Adverting to para 3 of your memo No. 4894 C, dated 22nd November 1892, I have the honor to state that the number entered in the Column (14) "ordered to be kept in stock" in the statement appended to G. O. under reply is considered sufficient, except under the Head "Road Rammers" of which 6000 might be allowed to the Circle while under the head axes 6000 would be ample. ×Pickaxes have been omitted altogether, 6000 might be allowed. The

Axes - 6000?
Pickaxes 6000?
A.S.

that are included under Head Axes [illegible] 186598, but the number it [illegible] they are [illegible] for road work

The following proportion will be kept in the Divisions.

3/8 in the North Arcot Division

5/16 " Coimbatore "

5/16 " Salem "

Those that are in excess of the authorized scale will be kept till they are absorbed for ordinary requirements in the Circle and the deficiency will be indented for from the P.W. Stores, Madras, should necessity arise.

I have the honor to be
Sir,
Your most Obedt. Servt.

J. Cl[illegible]
Superintending Engineer
4th Circle

J.G. 24/2

P. W. CURRENT No. 1858

From

The Supg. Engr.
4th Circle

829/15

Dated 26. } Feb/93
Despd 27. }
Recd: 28.2.93

Cp 74/W

Famine Tools.
Reporting on the stock of —

Compile

829/16

Statement of Famine Tools Showing the number actually in Stock on 1st December 1892 as Compared with the Scale given in Appendix B of the G. O. No. 2787 dated 7th Nov. 1884.

Description of Tools.	Number ordered to be Kept in the stores for Famine Vide Appendix B. of G.O. No. 2787 dated 7-11-84.	Number actually on hand in Stores on 1st December 1892	Difference		Remarks.
			Excess	Less	
Axes Felling No.	4,000	4368	368	"	The figures in Column 3 are the number of tools actually in the Stores.
Bill Hooks "	4,000	3500	"	500.	The whole of the Reserve for the 1st Circle has been issued and the Superintending Engineer has also Custody of the following tools which are still borne on the Account of the Stores but are not included in this Statement.
Crow Bars "	4,500	1,752	"	2748.	
Hammers Stone & Hand "	3,000	52,500	49,500	"	
Mamooties "	20,000	29,592	9592	"	
Pick axes "	6,000	22408	16408	"	
Rammers cast iron "	7,500	5794	"	1206.	Crowbars. 685. Hammers 281. Mamooties. 34. Pick axes. 1592.

15 December 1892.

(Sd) L. L. Wickham.
Cf Supt. P.W. Stores

No. 529 W.

Submitted to the Chief Engineer P.W. Department with reference to his No. 4895 C dated 22nd November 1892.

W Hughes
Superintg. Engineer 4th Circle

21st December 1892.

P. W. CURRENT No. 2671

From
The Supdg: Engineer
~~Fifth~~ Circle.

To
The Chief Engineer
P. W. Department.

Dated 21st } December 1892
Recd 22nd }

829
17

No 629 W.

Statement of Famine Tools showing the number actually in stock on 1st November 1892, &c.

Submits the — with reference to Chief Engr's No 4895 C of 22nd Nov 92

Complies with the reference to memorandum No 4894 C of 22 Nov. 92

[illegible]

829
18

Statement of Famine Tools showing the number actually in stock on 1st January 1893 as compared with the scale given in appendix B of the G. O. No 2787 W dated 7th November 1884.

Description of articles		Total tools ordered to be kept in reserve for famine vide appendix B of G.O. No 2787 W of 7-11-84	Tools actually on hand in the P. W. stores	Difference between Column 2 and 3		Remarks
				Excess	Less	
1		2	3	4	5	6
Axes felling	No	4000	4368	368		
Bill hooks	-	4000	3500	.	500	
Crow Bars	-	4500	1752		2748	
Hammers stone and hand	.	3000	52,500	49,500	.	
Mamooties		20000	29,592	9,592	.	
Pick axes	-	6000	22,408	16,408	.	
Rammers cast iron	.	7500	5794	.	1706	

P W stores }
19th January 1893 }

(True Copy)

(Signed) J. H. Wickham
Ex. Supdt. P.W. Stores

J. H. Hannah

2nd March 1893. Superintending Engineer V Circle

Public works store Department
Madras 19th January 1893.

829/19

No. 84-S

From

L. L. Wickham Esquire
General Superintendent
Public works stores &ca.

To

The Superintending Engineer
V Circle.

Sir

Enclosure 1
1 statement.

With reference to your endorsement No. 475M dated 14th December 1892 upon the Chief Engineer's Memorandum No. 4894 C of 22nd November 1892 and the reminder thereon I have the honor to submit a statement showing the number of Famine Tools actually in stock in the P. W. stores as compared with the scale laid down in Appendix B to G.O. No. 2787 W dated 7 November 1884 and to state that the number of Tools to be kept in the stores is limited to the available room and by packing as close as possible the amount now in this Division and may possibly be placed under cover but this will greatly inconvenience the removal of the old stores.

I would therefore recommend that the following be the maximum amount kept in these stores.

20,000	Mamooties	7500	Rammers		
20,000	Pick axes	20,000	Crowbars	1000	Felling axes
50,000	Hammers	5,000	Bill hooks		

Enclo

Even with this small amount great inconvenience will be felt from the close packing of the stores.

In the scale no mention is made of wooden cash chests or 5 cwt scales which I believe are also required on Famine works.

In the last Famine 25 of the former were ordered urgently, and owing to delay of manufacture in the workshop the Divisions requiring them were put to considerable inconvenience.

The number required is not known and I should suggest that the Superintending Engineers be communicated with on the subject.

I have &c

(Signed) L. L. Wickham

Gl Supdt. P.W. Stores.

(True Copy).

J H Hanman

Superintending Engineer

V Circle

21. March 1898.

No 12 / 28 7/13

829
20

Statement showing number of Tools required to be kept in stock in the several Divisions in the 5th Circle for Famine Relief works.

Division.	Population as per census of 1891.	Total number of tools required at 1 p.c. of population.	Number of each description of Tools required.									Remarks.
			Axes, felling 6 lbs. @ 1/20 of total number in Column 3.	Bill-hooks 2½ lbs @ 1/20 of total No: in column 3.	Crow bars 14 lbs @ 1/5 of total No: in Column 3.	Hammers stone breaking 3 lbs. @ 1/10 of total No: in Column 3.	Mamooties 6 lbs @ 2/5 of total No: in Column 3.	Pick-axes 6 lbs @ 3/20 of total No: in Column 3.	Hammers cast crow 14 lbs @ 1/20 of total No: in Column 3.	Wooden Cash Chests for every 2000 of 5 p.c. of population.	[illegible] 5 cwt for every 2000 of 5 p.c. of population.	
1	2	3	4	5	6	7	8	9	10	11	12	13
Chingleput.	1,137,333	11,373	569	569	2272	1135	4,552	1707	569	28	28	
South Arcot.	2,159,786	21,598	1,080	1,080	4319	2160	8639	3,240	1,080	54	54.	
Tanjore.												
Tanjore Taluq.	410,000	4,100	205	205	820	410	1,640	615	205	10	10	
Negapatam.												
Pattukottai Taluq.	271,000	2,710	135	135	542	270	1,087	406	135	7	7.	

Note.— Percentages of the different tools required are as follows:—

Axes, felling.	5 per cent
Bill-hooks.	5½ "
Hammers cast crow.	5½ "
Hammers stone-breaking	10 "
Pick-axes.	15 "
Crowbars.	20 15 "
Mamooties.	40 "

J Hannum
Superintending Engineer
5th Circle.

82/21

No. 80 W.

SUPERINTENDING ENGINEER'S OFFICE,
V Circle, Madras,
Chepák, 2 March 1893.

From

J. Hannan Esqre.

SUPERINTENDING ENGINEER, V CIRCLE,

To

THE Chief Engineer
P.W. Department.

SIR,

With reference to your Memo No. 4894 C of 22nd November 1892, I have the honour to submit herewith a Statement of the number and description of Famine Tools which I consider should be kept in stock in the Divisions of this Circle.

Enclosures. 3
2 Statements
1 Copy of letter
from the Ex.
Supt. Madras
No. 94 S of 19th
January /93.

2. The scale of Tools to be kept in stock as laid down in Appendix A-B. to G. O. No. 2787 W dated 7th November 1884 is to me no guide whatever to the Famine requirements of the Divisions in this Circle, as it is not known on what principle (if any) the

figures

figures have been arrived at besides the limits of the Circle have been entirely changed since the G.O. was promulgated

3. As regards the experience gained as to famine requirements in the matter of Tools since the scale was framed it has fortunately been so limited as to be practically Nil.

4 I have therefore compiled the Statement now submitted on the basis of the Requirements of the Board of Revenue for Famine Relief Work Estimates

5 In their Proceedings No 714 dated 28 October 1892 they state that Estimates should be prepared for Works sufficient to give employment for 3 months to 5 per cent of the population in areas liable to Famine.

6 I have provided tools for 1 per cent of the population in such areas or one tool for every group of five famine labourers

I will now shew how this works out with reference to the famine Tools now available.

Taking 1/6 of the tools in the Pr stores as the share of this Circle. The tools available for this Circle = 119914/6 say	20.000
Famine Tools in South Arcot	2422
Do in Chingleput	8871
Total available	31,293
Number of famine tools required as per statement now submitted	39781.
Additional tools required	8488.

In

In a foot note to the Statement of tools I have shewn the proportions of the different tools required. It is purely arbitrary.

I enclose a copy of a letter with Statement from the General Superintendent Presidency Stores in which he gives the number and description of the tools which can be conveniently stored by him.

I have the Honor to be
Sir
Your Most Obedt. Servt.

J. Hamman
Superintg. Engineer
5th Circle

P. W. CURRENT No. 2007

From

THE SUPERINTENDING ENGINEER,
V CIRCLE,

829/23

To

THE Chief Engineer
P. W. Department

Dated 2 } March 1893.
Recd 3rd }

ENCLOSURES. 3

No. 80 W

Famine Tools

Submits a statement of the number and description of tools that should be kept in the several Divisions of the V Circle.

[illegible]

Statement showing the number of each descr n of Famine Tools in the several Divisions in the 5th Circle, the additional number required in reference to th scale proposed in the statement, which accompanied the office No. 80 W dated 2d March 1893. 829

Description of Tools	Chingleput Division: Number as per proposed scale	Chingleput Division: Number in hand	Chingleput Division: Number required	South Arcot Division: Number as per proposed scale	South Arcot Division: Number in hand	South Arcot Division: Number	Tanjore Division: Number as per proposed scale	Tanjore Division: Number in hand	Tanjore Division: Number required	Negapatam Division: Number as per proposed scale	Negapatam Division: Number in hand	Negapatam Division: Number required
Axes - felling	569	..	569	1080	..	10	205	..	205	135	..	135
Bill hooks	569	..	569	1080	..	10	205	..	205	135	..	135
Crowbars	2272	990	1282	4319	6	431	820	..	820	542	..	542
Hammers stone breaking	1135	506	629	2160	1789	37	410	..	410	270	..	270
Mamooties	4552	6562	2010	8639	424	82	1640	..	1640	1087	..	1087
Pick-axes	1707	789	918	3240	152	30	615	..	615	406	..	406
Rammers cast iron	569	24	545	1080	39	10	205	..	205	135	..	135
	11373	8871	2502	21598	2410	19	4100	..	4100	2710	..	2710
Wooden cash chests	28	..	28	54	..	6	10	..	10	7	..	7
Scales 5 cwts	28	..	28	54	..	6	10	..	10	7	..	7
Chains iron 6 feet	..	2	..	..	..		..	..	..	..	..	..
Boxes for preserving stone breaking hammers	..	..	..	..	12		..	..	..	..	..	..

Remarks

Number of Tools required = 39781

Available in the circle - } 11281

Probable number available from P. W. Stores. } 20000

31281

Additional number required } 8500

If the excess of 2010 Mamoties in the Chingleput Division be transferred to South Arcot, the number required in the latter Division will be 6205.

No. 98 W.

Submitted to the Chief Engineer P. W. Department in continuation of this office No. 80 W d/2d March 1893

11th March 1893.

J Hannam
Supdg: Engineer V Circle

SUPERINTENDING ENGINEER'S OFFICE,
V. Circle, Madras,
Chepâk, 11th March 1893.

No. 99W

22/25

From
J. Hannan Esquire
SUPERINTENDING ENGINEER, V CIRCLE,

To
THE Chief Engineer
P. W. Department

Enclosures.

with Cir 2399
with 18.

SIR,

With reference to your Memorandum No. 1113 C d/9th instant, I have the honor to state that I think 50 wooden cash chests and 50 5 cwt scales should be kept in stock in the P. W. stores for this Circle.

I have the honor to be
Sir
Your most obedt Servt
J Hannan
Supdg. Engineer V Circle

1 0 0

P. W. CURRENT No. 2496

From

THE SUPERINTENDING ENGINEER,
V CIRCLE,

To

THE Chief Engineer
P. W. D.

Dated 11 }
Recd. 15 } March 1893

ENCLOSURES.

No 99 W.

Wooden Cash Chests &c.

Reports the number of ——— which he thinks should be kept in stock in the P.W. Stores for this Circle

---

No. 1713 TC

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE.

Trichinopoly. 17 February 1893.

D 17/—

829/26

From

W. Hughes Esqr.
~~The~~ Superintending Engineer,
6th CIRCLE.

To

The Chief Engineer,
PUBLIC WORKS DEPARTMENT.

SIR,

ENCLOSURES.

With reference to your Memorandum No. 606.C dated 10th February 93

(1) Levelling Instruments with stands.
(2) One set Levelling staves.
(3) Chains measuring.
(4) Measuring rods.
(5) Mathematical Instrument Boxes, 3rd sort.
(6) Prismatic compasses with stands.
(7) Tapes measuring.

I have the honor to inform you that I consider that 9 sets of Instruments or those enough for 3 extra Overseers for each district in the Circle should be kept in stock.

2. I think strong wooden Cash chests with Chubb's locks will do well; 9 of these or 3 for each district will be sufficient.

I have the honor to be,
Sir,
your most obedt. Servt.

W. Hughes
Supdg. Engineer, 6th Circle

P. W. CURRENT No. 1563

P. W. D. 6TH CIRCLE.

From

The Superintending Engineer,
6th Circle.

To

THE CHIEF ENGINEER,
PUBLIC WORKS DEPARTMENT

No. 1713 T.C

Dated 17
Received 17 } February 1893.

Enclosures

Famine Tools:—

Reporting the No and description of cash chests and instruments which should be kept in stock of — in Divisions —

Compiled

No. 1858 T.C

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE.

Trichinopoly, 11° March 1893.

D 11/—

82
V

From W. Hughes Esquire,
~~The~~ Superintending Engineer,
6th CIRCLE.

To

The Chief Engineer,
PUBLIC WORKS DEPARTMENT.

SIR,

ENCLOSURES.

Cu 1563
with 13

With reference to your No: 1113.C. of the 9° March/93, I have the honour to state that I have already, in my No: 1713 T.C. of 17° February 1893, reported that 9 wooden cash chests — 3 for each district — should be kept in stock. I consider that 6 scales 5 Cwt: each should also be kept in stock at Madras.

I have the honour to be
Sir
Your most obedt: Servant.

W. Hughes
Suptg: Engineer
VI Circle

P. W. CURRENT No. 2399

P. W. D. 6th CIRCLE.

From

The Superintending Engineer,
6th Circle.

To

THE CHIEF ENGINEER,
Public Works Department.

No. 1858 T.C

Dated 11 }
Received 11/3 } March 1893.

Enclosures.

Famine Tools:—

Reports that 9 wooden Cash Chests & 6 Scales 5 each should be kept in stock at Madras.

No 829 W d/27th March 1893

28

Public Works Department.

Genl
Acct

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

1	From the S.E. II	circle	No 559 G.L d/ 7 Mar: 1893
2	III	"	" 3211 d/ 7 March 1893
3	IV	"	" 74 W d/ 26 Febry 1893
4	V	"	" 529 W d/ 21 Decr 1892
5	V	"	" 80 W d/ 2 March 1893
6	V	"	" 98 W d/ 11 March 1893
7	V	"	" 99 W d/ 11 March 1893
8	VI	"	" 1663 T.C d/ 7 Febry 1893
9	VI	"	" 1713 T.C d/ 17 Febry 1893
10	VI	"	" 1858 T.C d/ 11 March 1893

Leave out to the Statement to be printed in full as an accompaniment to the order.

P 11

The papers quoted above are replies to the Chief Engineer's memorandum No 4894 C d/ 22 November 1892 in which information was called for as to the number and description of tools that should be kept in stock in readiness for use on Famine Works

2. On consideration of the matter, His Excellency

the Governor in Council is of opinion that the number of tools should, as suggested by the Suptg. Engineer V circle, be calculated on the population of each district, and that the description of tools to be kept in stock should be limited to those usually in greatest demand. If tools of other kinds are required they must be specially obtained when the necessity arises.

3. The following tools will accordingly be kept in stock for Famine Relief Works in the proportions shown:—

Axes felling	at 5 per cent of total number of tools			
Bill hooks	" 7½	do	do	do
Rammers, cast iron	– 7½	do	do	do
Hammers stone breaking	" 10	do	do	do
Pick axes	" 15	do	do	do
Crow bars	" 15	do	do	do
Mamooties	" 40	do	do	do
Wooden Cash chests	1 for every 2000 of 5 per cent of the population			
Scales 5 cwt	... 1 for	do	do	

4. It is assumed× that 5 per cent of the whole

× vide Pro: of the Bd of Re
No 7141 d/28 Oct 189

p-12

8/29
29

population of w

to famine ~~should~~ may have be
rovided for on Relief works,
nt it will be sufficient
tools are provided for
r cent only – or 1 tool
very group of 5 laborers
is proportion need not
owever be provided in
dvance for all districts
the Presidency. Famine
not likely to ~~[illegible]~~ affect the
sidency
t anyone time, and,
oking to existing facilities
f transport, it will probably
be sufficient to allow as
reserve stock of tools, one half of
the proportion fixed above
The accompanying state-
ment has been prepared
n this basis. It is circulated
to Suptg. Engineers for
uch remarks as they
ay wish to offer. It
will be seen that no provi-
sion has been included
for the West Coast and
Nilgiri Districts which
are

famin

a deduction has bee
made for the delta talug
of the Godavari, Kistna, Nellor
Tanjore, Trichinop
and Tinnevelly Distri

5. On receipt of rep
to these Proceedings,
scale will be finally
fixed, and the requisi
redistribution of tool
will be authorised.

21/3/93

Supdg Engineer
Consg Architect
C. E. for Irrigation
Revenue Dept

31

189 .

Public Works Department.

829/30

No. 829 W

Dated 27th March/93

Despatched

Received

28/3/93

OC C.16
4566/93

3. C. 27/3

SUBJECT.

Tools.

Circulating to S.Es for such remarks as they may wish to offer a statement shewing the number and description of T required to be kept in stock for 3 annual Repairs Works ~~in each P.W. district of the Madras~~

14

Accompaniment to Proceedings No. 829 W. 27-3-93

Statement showing the number of tools required to be kept in stock for Famine Relief Works.

Districts	Population as per census of 1891	Total No. of tools required at 1 p.c. of population	Scales, Kellingat 5 p.c. of the total number of tools	Bill-hooks at 7½ per cent of the total No. of tools	Rammers, Cast iron at 7½ per cent of the total No. of tools	Hammers, stone breaking, at 10 p.c. of the total No. of tools	Pick axes at 15 p.c. of the total No. of tool	Crowbars at 15 p.c. of the total No. of tools	Mamooties at 40 p.c. of the total No. of tool	Wooden scale sheet for every 2,000 of 5 p.c. of population	Scales, 5 units for every 2,000 of 5 p.c. of population	Remarks
Ganjam	1,893,813	18,938	947	1,420	1,420	1,894	2,841	2,841	7,575	47	47	
Vizagapatam	2,795,054	27,950	1,397	2,096	2,096	2,795	4,193	4,193	11,180	70	70	
Godavari	983,931 (a)	9,839	492	738	738	984	1,476	1,476	3,935	25	25	
Kistna	1,159,420 (a)	11,594	580	870	870	1,159	1,739	1,739	4,637	29	29	
Nellore	1,172,688 (a)	11,726	586	880	880	1,172	1,759	1,759	4,690	29	29	
Cuddapah	1,268,887	12,688	634	952	952	1,269	1,903	1,903	5,075	32	32	
Kurnool	853,034	8,530	427	640	640	853	1,279	1,279	3,412	21	21	
Bellary	911,579	9,115	456	684	684	911	1,367	1,367	3,646	23	23	
Anantapur	707,555	7,075	354	531	531	707	1,061	1,061	2,830	18	18	
Chingleput	1,137,330	11,373	569	853	853	1,137	1,706	1,706	4,549	28	28	
North Arcot	2,178,226	21,782	1,089	1,634	1,634	2,178	3,267	3,267	8,713	54	54	
South Arcot	2,159,786	21,597	1,080	1,620	1,620	2,160	3,239	3,239	8,639	54	54	
Tanjore	341,848 (a)	3,418	171	256	256	342	513	513	1,367	9	9	
Trichinopoly	1,041,815 (a)	10,418	521	781	781	1,042	1,563	1,563	4,167	26	26	
Madura	2,608,150	26,081	1,304	1,956	1,956	2,608	3,912	3,912	10,433	65	65	
Tinnevelly	1,634,514 (a)	16,345	817	1,226	1,226	1,634	2,452	2,452	6,538	41	41	
Salem	1,962,566	19,625	981	1,472	1,472	1,962	2,944	2,944	7,850	49	49	
Coimbatore	1,999,432	19,994	1,000	1,500	1,500	1,999	2,999	2,999	7,997	50	50	
Total	-	2,68,088	13,445	20,109	20,109	26,806	40,213	40,213	1,07,230	670	670	
50 per cent of the total	-	1,34,044	6,703	10,055	10,055	13,403	20,106	20,106	53,616	335	335	
Deduct the number of tools in stock	-	-	6,054	6,296	10,736	1,23,747	2,00,682	49,170	2,40,543	2	28	
Balance required	-	-	649	3,759	681	1,10,344	1,80,576	29,064	1,86,927	333	307	Red ink figures show excesses.

(a) The population of delta taluks has been excluded. The figures are in this case taken from the Census of 1881, those for 1891 not being available as yet.

829/31

May

29-412-V

MADRAS RECORD OFFICE.

Government Records.

32/8

Public Works Department.

G. O. (Mis).

Dated 27- 3- 1893.

No. 829 W