P. W. DEPARTMENT.

No. 2453 C dated 8th. December 1883.

CIRCULAR MEMORANDUM.

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.

J. Mac Stewart
Col. R.E.

Chief Engineer P.W.D.

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

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

G.O. No. 1697 W dated 9th. July 1881
2018 W dated 17th. August 1881
3197 W dated 31st. Decr. 1881
3198 W dated 31st. Decr. 1881
465 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.

C. 14.10.84 R. 22.10.84

Public Works Department, 1884-85.

Current No. 8254
Letter No. 2535
Dated the 2nd October/84
From the S.E.V Circle

NOTE OF REMARKS.

1. This estimate provides for deepening the bed of the Halsur tank at Bangalore. It amounts to Rs. 58,870.

2. The work proposed to be carried out is to deepen the tank along the margin:— The first cutting is to extend from "North of rock to Cemetery Road"—(2,310 × 412 × 5) feet; the second, to extend from 'South of rock to Trinity Cross Road'—(600 × 243 × 5) feet; and the third, to extend "Along west side"—(1500 × 300 × 5) ft.

3. Subject to approval, this estimate has been submitted in bad form. It is stated that

O. 14.10.84 R. 22.10.84

the estimate was prepared with reference to section 51, chapter II of the Famine Relief Code, but this is all the Report contains. What object or purpose the work is intended to serve is not mentioned S.E.V. states:– "This work is considered to be one of utility and suitable for the employment of labor in a time of distress" – but what that "utility" is, is not explained although the estimate amounts to Rs. 58,870.

4. Is not a plan or survey an essential accompaniment to the estimate to identify the positions of the cuttings? – "Along the west side" is indeed too indefinite, especially when it is remembered that the work proposed may not be started for years when officers other than the designer, will have to carry out the work

5. From the estimate it may be learnt that the earth is to be removed 300 ft. from place of excavation. The rate is high but, in the circumstances of the case, it cannot be looked on as excessive.

4th Octr/84
BH

To DW.

For orders.

The statement accompanying the estimate is prepared in the form given in the Famine Code, No III Appendix B –

It seems doubtful whether this project would have been brought forward by the Madras P.W.D., as a possible relief work —

If the proposed work be considered necessary in connection with the water supply of the troops, it would be taken up as a military work, & the cost would be paid from the Military Works grant — Famine relief would then have nothing to say to it —

If however it be kept in reserve as a relief work in the event of famine, it would be entirely a concern of the Mysore Govt, whose subjects would be the people relieved —

9.10.84

SUPERINTENDING ENGINEER'S OFFICE,
5TH CIRCLE, MADRAS,
Chepauk, 2nd October 1884.

No. 2535

From
THE SUPERINTENDING ENGINEER,
5TH CIRCLE,

To
THE Chief Engineer
P.W.D.

SIR,

Enclosures.
1 Detailed estimate
2 Abstract do
1 Report.
1 Statement

I have the honor to submit an Estimate of Rs. 58,870 for deepening a portion of the bed of the Ulsoor Tank at Bangalore.

This work is considered to be one of utility and suitable for the employment of labor in a time of distress, it was entered in the list of Famine Relief Works which accompanied the Administration Report for 1883–84.

Admn Report
V Circle – [illegible]

I have the honor to be
Sir
Your Most Obedt Servant

Arth Prendergast
Coll. R.E.
Superintg Engr
5th Circle.

From Inclo 8252

THE SUPERINTENDING ENGINEER,

5TH CIRCLE,

(2)

To

THE Chief Engineer P.W.D.

Dated 2nd
Recd. 3
} October 1884

ENCLOSURES. 5

No. 2535

Ulsoor Tank

—

Submits an esti=
=mate of Rs 58870 for
deepening a portion
of the bed of the

7

O.L.S 45/10

C. 14. 10. 84

No 1488 C d/ 5-9-84
" 2453 C " 8" 12. 83.

O.L.S 45/10

No P.W.C. No 8310

From

The Supg: Engineer
5th Circle

(2)

To

The Chief Engineer
P. W. Deptt

Dated 10th October 1884.

Recd 11

No 2675

Famine Relief works.

Detail of works suita-
-ble for Famine Relief
to accompany the Budget
for the Year 1885-86.

—

The List of Famine works
was sent together with the
Administration Report
for 1883-84. There are no
more works to be added
at present.

Arthur Prendergast
Col. R
Supg Engineer 5th Circle

K.S.

To W.

The accompanying Estimate of Rs. 58,870 is for deepening parts of the Ulsoor Tank at Bangalore. It is merely for a relief work in case of famine, and should such occur it is sufficient to observe that the duty of providing suitable relief works at Bangalore would fall on the Mysore Govt. It is therefore needless to criticise the project which I recommend may be simply recorded.

C.S.
13. 10. 84

Yes. but it seems a question whether the papers should be communicated to the Mysore Govt. for information.

21. 10. 84

S.a.W.

I would allow this to lie over till W returns, when I shall discuss the matter with him. The papers would hardly be of much use to the Mysore Govt., it seems to me.

C.S.
22.10

L.O. until W returns to Madras.
Cy 22.10.84

7 November/84 P. W. Dept

To The Resid

To W.

With reference to the doubt expressed by you as to whether the Estimate for deepening parts of bed of the Ulsoor Tank should not be communicated to the Mysore Govt. for information, it seems to me the Estimate is of so little value it is hardly worth while to do so. There is no plan of the Tank, showing where exactly the proposed excavations are to be made, where the Earth is to be deposited &c.

At same time, there can be no harm in sending it on to Mysore with a brief letter to the effect that the Estimate has been submitted by E.E. Residency in view to providing work should relief in vicinity of Bangalore be at any time found necessary, but it is unnecessary for the Madras Govt. to deal with it.

CS.
3.11.84

I think the last suggestion may be adopted.

LS.
3.11.84

C. 14.10.84 R. 22.10.84

No. 2781. W a/17 November /84 P. W. Dept.

To
The Resident
in Mysore

Sir,

I am directed to forward for information, the accompanying estimate of Rs 58,870, for deepening portions of the Halsur Tank, which has been submitted by the Executive Engineer Presidency Division, in view to providing work should famine relief in the vicinity of Bangalore be at any time found

Necessary.

C.J.
4.11.84

6.11.84

D.C.
B.No. 3058 W. 12-12-84.

B No. 2781 W d/7 Nov./84

I - BH
B.W.

Despd with 5 Encs:
8/11/84.

11/11

No. 1797/951

Office of the Resident in Mysore.
Bangalore, 6th December 1884.

From

Major H. Wylie, C.S.I.,
Assistant to the Resident
in Mysore.

To

The Secretary to the Government
of Madras, Public Works Department,

Sir,

I am directed to acknowledge, with thanks, the receipt of the Estimate forwarded with your letter No. 2781.W. dated 7th November 1884 for deepening portions of the Halsur Tank — as a famine work, should occasion for such work at any time arise.—

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

H. Wylie

Assistant to the Resident

Bch 10235

Recd 10/12/82

B. No 3058 W af 12 Decr

B/

Recorded.

Cy.
10.12.84

11.12.84

2 d
2 16/12

13/12

17/12

Acte 10235

"	"	"	"	10.
"	"	"	"	25
400	350	100	200	220
10	"	"	"	10
"	200	500	"	466
50	"	20	"	26
1	1	1	1	1
1	2	2	4	2
50	25	100	100	80
350	"	"	"	350
50	20	"	"	35
"	200	100	"	134
"	1	"	"	1
10	5	"	"	8
"	"	"	"	20
50	"	"	"	50
"	1	"	"	1
1	"	"	1	1
350	350	600	400	366
"	"	"	4	4
"	"	"	"	1
"	"	"	"	1
"	"	"	"	1
"	100	"	"	100
10	"	"	"	10
50	"	"	"	50
1	"	"	"	1
"	"	30	"	35
"	"	"	10	6
1	"	1	"	2

Scales Bullion, to weigh 500 Rs ______ Sets	"	"	"	1	"	"	1
Staves, Levelling	"	2	"	"	"	1 Set	2
Tapes Measuring	"	1	1	3	6	4	3
Wedges 5 to 10 lbs.	"	"	"	10	"	"	10

Remarks by Superintending Engrs

Suptg. Engr. I Circle ___ The Crowbars should be simple pieces of 1¼" round bar, 5½' long, sharpened at one end and quite plain at the other - the Mamooties are not to exceed 7 lbs, Sketches 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 steeled, and the Mamooties 6 lbs in weight with the handle almost parallel to the blade as the English made Mamooties are not properly shaped. The Pickaxes should be steeled and the stone breaking hammers should weigh 3 lbs and be entirely of Steel. The other articles specified are:- Measuring rods 10', Measuring Tape 50', Chain 100', Levelling Instruments Dumpy 10" and Cash box, small wooden.

___ " ___ " ___ III ___ " ___ The Crowbars to be 14 lbs, the Mamooties 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 350 should be English 7 lbs, and 50 Country 5 lbs. The Picks should be 5 lbs weight, the Jumpers Steel 6'×1¼" 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 the Chain 100' with arrows - Beyond being of a light serviceable form no special pattern of Tools is required.

For every 1000 laborers a wrought Iron Cash Chest should be provided and a Chest of the size known as the Ganges Canal pattern for every 3000. Each District to 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 of Levelling Staves, 2 sets plotting scales, 2 metal straight edges, 4 metal 18 rolling parallel rulers, 1 case of plain Mathematical Instruments 1st Class and 1 2nd Class and 2 color boxes of tin with 6 colors in each brushes and 6 China Saucers.

___ " ___ " ___ V ___ " ___ The Crowbars to be about 15 lbs and the Mamooties 4 lbs weight- The full supply to be obtained in the country- Indian made tools being more suitable than English.

___ " ___ " ___ VI ___ " ___ The Crowbars to be about 12 lbs and the Mamooties similar in pattern to those in use by the people of the Dt.- the patterns vary very much chiefly in the angle at which the blade is set with regard to the handle- The Picks should be light about 6 lbs- The Tapes & Chains to measure 100', and the Rods 9'- Of the measures 2 sets are for issuing grain and 2 for Curry stuff.

Note 10255

r No. 2453 C. dated 8th Decr. 1883.

00 laborers on Famine Relief Works.

Supg. Engr. III Circle.	Supg. Engr. IV Circle.	Supg. Engr. V. Circle.	Supg. Engr. VI Circle.	Average.

Appendix to Circula

Number and description of Tools required for 10

Description of Tools.	Supg. Engr. I. Circle.	Supg. Engr. II. Circle.
Axes, Country	"	10
— " — Felling	"	25
— " — Pick,	"	50
Bars, Tamping, Brass 5'	"	"
Baskets.	"	700
Bill hooks.	"	10
Cash Chest.	1	1
Chains	"	1
Crowbars.	100	100
Hammers, Hand,	"	"
— " — Sledge,	"	"
— " — Stone breaking,	"	100
Instruments, Overseers case of.	"	"
Jumpers	"	"
Knives, Curved for prickly pear	"	20
— " — Grass	"	"
Level, Abney's pocket, mounted on thin stick with Sight Staff graduated in ft. & in.	"	"
Levelling Instrument	"	1
Mamooties	300	200
Measures for issuing food. Sets,	"	"
— " — One Seer,	"	1
— " — Half Seer,	"	1
— " — Quarter Seer	"	1
Mortars pans, Iron 15" × 5"	"	"
Needles, Priming, Copper, 5 feet long	"	"
Picks 5 lbs	"	"
Prismatic Compass	"	"
Rammers	"	40
Rods, Measuring	"	3
Scales and Weights, Sets.	2	"