

164W
Cm 234 22-95

W

For orders with
reference to your note
attached to us 3969c
of 8.12.94, whether the
continuance of the estate
under this. Close may
now be sanctioned.

If so, the drop
h.p. attached to the
memo. may be in-
tended.

Proposed to send
the drop h.p. to the
Gaz. with the coplan
motion now received.

Cm

15.1.95

Yes - but could 2
the draft -

3- It also not appear
that the draft has
been imported I
am supposing this of
the draft - The

Superintendent, June
I should take care
my opportunity of
going over the line
in company with him
before, and submit
his inspection ^{with} the Chief Exam-
iner for the
information of him -

S
15.

Proposed Kodakamal Ghat Road.

Cookies required for cutting a 3 foot track.

Nature of work.	Miles.	Dimensions			Contents	Cocky Task	Cookies required.
		L	B	H			
Earth excavating	16.6	87648	3	1	262,944	50 c ft	5259.
Gravel & Boulders excavating — 3	5.4	20,512	3	1	06,536	25 c ft	3421.
Jungle clearing	11	50000	9	-	522,720	500 s ft	1045.
Total cookies required.							9,725

Remarks.

Earth excavating.

Length. This is taken at 22 miles, less the amount allowed for Gravel & Boulders.

cross section. Since about 8 miles of the length are generally steeper than $\frac{1}{4}$ and 14 miles generally less steep, the average cross-slope is assumed at $\frac{2}{3}$ which gives an average depth of cutting of 1 foot with the 3 foot track.

Task. Since the working hours are short and the work requires much supervision the task has been assumed at 50. c ft per man.

Gravel & Boulders

Length. This is taken at 50% of 8 miles Gravel & Boulder
and 10% of 14 miles which gives 5.4 miles.

Cross section. As in South excavating.

Tasks. This has been assumed
at 25 c. ft per man per diem.

Length. This is estimated at about Jungle clearing
11 miles -

Breadth. 9 ft is allowed so as to give
free room for working -

Tasks. 500 S ft is assumed.

signed A. J. Close Lt. RE.

Assistant Surg.

/True copy/

W. Hughes.

Supt. Surg. Wincelo -

12-1-95.

P. W. D.

From,

Lieut A. J. Close R2

Asst Engr, on special duty

Pulney Hills.

To,

The Superintending Engineer

V circle.

(Shro' the Exec: Engr Madras)

Station - Kodaikomal.

Dated 24 December 1894.

No 111

Sir,

With reference to yours No 1124 dated 14 December 1894, calling on me to report on the present state of the investigations of the proposed Ghat road and the probable length of time required to complete the investigations, I have the honor to report as follows:—

I

Of the whole estimated length of the Ghat road viz 22 miles, a length of 16 miles has been traced and the gradient marked out with pegs. Of the remaining 6 miles, $\frac{1}{2}$ miles does not require tracing and marking as it runs along an existing path at a slight gradient.

Of the $5\frac{1}{2}$ miles yet to be traced the line

OL 551
234/55

has been definitely closed after running several trial traces, and the tracing is now in progress.

No survey, levelling, measuring or lockspitting has yet been done.

From the above it will be seen that the work yet to be done is

Tracing $5\frac{1}{2}$ miles.
Surveying, levelling
and measuring - 3 . 22 miles.
Lockspitting 22 miles.

II

With regard to the time required to complete the work I have the honor to state: —

1st That this chiefly depends upon the time required for lockspitting, since the tracing is nearly completed and the survey party will be able to follow close behind the lockspitters.

2^d That the time required for lockspitting depends upon the amount of labour available. The coolies will have to be obtained from the Plains none being obtainable on the Hills. On the Coffee Estates the working hours are from 9 A.M. to 4.30 P.M. which, with $\frac{1}{2}$ hour deducted for food, gives a

working day of 7 hours. If the coolies are given a similar working day, I believe that between 150 and 200 may be obtained daily. An average of 175 daily may therefore be assumed.

Now from the appended table it is seen that the total number of coolies required on the work is 9,725.

Thus with 175 coolies working daily the total time required for lockspitting is 56 days —

The survey party will require, say, 2 additional days to complete their work subsequent to the lockspitting being finished.

A period of about 5 days will be required for the final inspection of the work.

The report and plotting of the survey will take about 14 days.

Thus the work days required will be.

Nature of work —	Days.
Lockspitting	56
Survey —	2
Inspection	5
Report etc.	14
Total working days.	77
Add sundays $\frac{1}{7}$.	11
Add for local feasts 3 week days etc. —	7
Total time required.	95 days.

Probably coolies will be available early in January, as the harvest will then be finished -

If the lockpitting is begun on the 14 January, the above calculations would show that the work will probably be completed on the 20 April.

III.

With regard to the fact that the time originally reported as being required for the work has been exceeded. I have the honor to state. -

That doubtless the method of working which Executive Engineer Mr. C. Wood had in view when submitting the original estimate was for the tracing party to be closely followed by the lockpitters, and for the latter to be closely followed by the survey party. In this manner the whole work would be completed within three weeks of the completion of the tracing.

The method of work actually employed has been for the tracing to be completed before the lockpitting or survey are begun.

As far as I can ascertain, the

reasons for the employment of the latter method are that for two months previous to my taking over this work, the work was practically in the charge of the surveyor. The latter during this period continued tracing but, as his trace was not inspected and passed, no lockpitting was put in hand.

On my taking over charge early in August I found that the surveyor had recently quitted his work through illness and had left no address. I could obtain but little reliable information as to the trace from the villagers and therefore did not consider it desirable to lockpit such portions as I discovered, on account of the risk of working on rejected traces.

The surveyor returned to work in the middle of October and has since continued tracing.

During the last six weeks it has been impossible to begin the lockpitting as all the coolies were employed on the harvest.

I have &c.

Signed/ A. J. Close Lt. R.E.

No 6218E.

Forwarded.

Signed / J. H. Medlicott C.E.

5 Jan 9/95.

Executive Engr.

No 1215 Ind.

Copy submitted to the Chief Engineer, P.W.D., for information, with reference to his memorandum No 3969C dated 8 December 1894.

W. Hughes.

Supt Engineer Madras.

Camp. Tuticorin
Df. 12 January 1895
Df 15-

20/164 W. d, 22 January 1895.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Letter from the S.E. VI Circle (H.E. No 1061 U.D. d/30.11.94)
do do do (.. 1215 U.D. d/12.1.95)

Sanction is accorded to the continued employment of the following establishment entertained for the investigation of a scheme for opening communications between the plains and the Upper Pulus in the Madras District:—

one surveyor at Rs 150 per mensem for 3 months.
ten lascars at Rs 9 each per mensem for 2 months.
2. This sanction has been registered as Provincial No 57 W of

1894-95 and classified
as Establishment temporary

5
3. It does not appear
that the trace has been
inspected by any superior
officer of the department;
the Supt. Engineer should
take an early opportunity
of going over the line
in company with Lieut.
Close, and submit his
inspection notes thereon
to the Chief Engineer
for the information of
Governments.

Investigation of Great
road on lower Palm

No 164 Wd 22 - January 1895

C. A. W.
C. B. 1895

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C. W. M.
14 95

S. E. VI. Carle
Ex P. W. Accts.

C. W.