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(2) Date of repair 17.6.38
(3) Initials of the Referencer CF

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	666 <i>Revenue</i>	Press ~~Mrs.~~
Dated	23rd April	1872.

Not to be folded or roughly handled

No. 256. Read the following letter from the Superintendent of Revenue Survey, to the Officiating Chief Secretary to Government, Revenue Department, dated Chepauk, 19th March 1872, No. 459-16:—

WITH reference to G. O. No. 1,532 of the 5th September last, I have the honour to state that, as the upper part of the "Wood" Cinchona plantation consists of large trees altogether stopping the view, it would have been impossible to survey or take levels over it without serious loss to Government; the lower portion, not presenting such formidable difficulties, has been minutely measured, and the surface-area ascertained.

2. I enclose a map showing the extent by survey and by surface-measurement. The excess of the latter over the former area is 18 per cent.

3. The average gradient has not been ascertained on account of the difficulty named in the first paragraph, which prevented even the measurement of the whole estate.

4. The average distance between the Cinchona plants being $5\frac{1}{2} \times 5\frac{1}{2}$ feet instead of 7×7 as estimated, the number of trees planted on the estate may be assumed as correctly stated by Mr. McIvor.

5. I enclose, for reference, copy of a letter from Captain Sargeant, Assistant Superintendent, Revenue Survey, and beg to state that, on a recent visit to the locality, I have personally verified what he advances in it.

From Captain C. C. SARGEANT, Assistant Superintendent of Revenue Survey, Nilgiris, to the Superintendent of Revenue Survey, dated Ootacamund, 29th January 1872, No. 59-8.

ACCORDING to your instructions in letter No. 107-23, dated 20th January 1872, I have taken in hand the surface-survey of the Wood Cinchona estate.

2. I have the honour to inform you that it will be necessary to cut away some of the branches of the Cinchona trees, and, in some cases, the trees themselves, to carry out the simple method of ascertaining the surface area adopted by you.

3. I am of opinion that, if the estate be accurately contoured, either with level or Theodolite and boning staves, the loss to Government in well grown trees will be great indeed.

4. It seems to me, from personal inspection and from measurements taken with my own hands on the ground and in various parts of the estate, that the average distance between the Cinchona plants, taking in the late supplies, will be about $5\frac{1}{2}$ feet.

5. Suppose we assume $5\frac{1}{2}$ feet to be the average distance between the trees, we have then, by survey, 100,137 trees on an area of 69.54 acres (base-measurement). If we take the distance at which the trees were supposed to be planted, namely, 7×7 , we have 888 trees to the acre. Divide the number of trees derived from the assumption that they are planted $5\frac{1}{2} \times 5\frac{1}{2}$, namely, 100,137 by 888, we have an area of 112.76 acres (surface-measurement), or nearly the amount of land that Mr. McIvor supposed he had planted.

6. From the above it appears to me that the expenditure of money in contouring the estate, and the loss of capital by cutting down the Cinchona trees, should not be incurred without further reference to Government, more especially as no general results will be obtained from the surface-measurement of a very small portion of the hills. We shall know the exact excess of surface over base-measurement on that particular block of land, but shall be as much in the dark as before as to the rest of district.

*Proceedings of the Madras Government, Revenue Department,
23rd April 1872.*

7. I would suggest that at any rate, before orders for the contouring of the estate be given, two persons should be deputed to take the measurements between a certain number of trees, say 2,000, each person taking 1,000. By this method an approximate average might be arrived at, and both the base and surface-measurement computed.

8. I submit the above for your perusal with due deference, and trust you will inform me whether you think my views worthy of consideration.

No. 257.

ORDER THEREON, 23rd April 1872, No. 666.

Miscellaneous.

COMMUNICATED to the Commissioner
of the Nilgiris.

(True Extract.)

(Signed)

W. HUDLESTON,

Officiating Chief Secretary.

To the Commissioner of the Nilgiris.
,, the Board of Revenue.
,, J. Broughton, Esq.
,, the Superintendent of Revenue Survey.

MAP

Shewing excess of surface over base

Measurement on a portion

OF THE

WOOD ESTATE

Area

Surface Measurement. 61.92

Base Measurement. .52.65

Excess. . . 9.27 Acres.

Govt. of 1872 37/10/73.

REVENUE.

To

THE COMMISSIONER OF NILGIRIS.

Ac. Ac. Ac.

Dated 23rd April.

Recd.

Recd.

G. O., 23rd April 1872, No. 686.

APRIL

Nos. 256-257.

Survey of the Cinchona Plantations on the Nilgiris.—Letter from the Superintendent of Revenue Survey on this subject, communicated to the Commissioner of the Nilgiris.

MAP
 Shewing excess of surface over base
 Measurement on a portion
 OF THE
 WOOD ESTATE
 Area
 Surface Measurement. 61.92
 Base Measurement. .52.65
 Excess. . . 9.27 Acres.



REFERENCE.
 of surface Measurement
 Outline of base Measurement



Revenue Survey Office
 Ootacannud
 28th February 1872.

Central Office
 Chepauk
 26th March 1872.

Encl. 4. No. 50.
[Signature]

Scale 2 1/2 Inches = 1 Mile
 Links 100 0 5 10 Chains

(Signed) C. C. SARGEANT Captain,
 Assistant Superintendent Revenue Survey.

[Signature] Colonel,
 Superintendent Revenue Survey.

N^o 459
16.

Revenue Survey Office
Chopank
19th March 1872

From

The Superintendent Revenue Survey
To

The Officiating Chief Secretary to Government
Revenue Department

Sir

With reference to G. O. N^o 1532 of
the 5th September last, I have the honour
to state that, as the upper part of the
"Wood" Cinchona plantation consists of
large trees, altogether stopping the view
it would have been impossible to survey
or take levels over it without serious loss
to Government, the lower portion, not
presenting such formidable difficulties,
has been minutely measured, and the
surface area ascertained.

2 I enclose a map shewing the extent
by Survey and by Surface measurement.
The excess of the latter over the former
area is 18 per cent.

3 The average gradient has not been
ascertained on account of the difficulties
named in the 1st Para which prevented
even the measurement of the whole area.

4 The average distance between the
Cinchona

Govt. of 1872

REVENUE.

THE COMMISSIONER OF NILGIRIS,

Ac., Ac., Ac.

Dated 23rd April.

Recd.

Encl.

G. O., 23rd April 1872, No. 666.

APRIL

Nos. 256-257.

Survey of the Cinchona Plantations on
the Nilgiris.—Letter from the Superintendent
of Revenue Survey on this subject, communicated
to the Commissioner of the Nilgiris.

Cinchona plants being $5\frac{1}{2} \times 5\frac{1}{2}$ feet instead of 7×7 as estimated, the number of trees planted on the estate may be assumed as correctly stated by Mr. Macdon.

5 I enclose, for reference, copy of a letter from Captain Sargeant, Assistant Superintendent Revenue Survey, and beg to state that, on a recent visit to the locality, I have personally verified what he advances in it.

I have the honour to be
Sir
Your most obed^t servant
J. P. Pittley Colonel
Superintendent Revenue Survey

~~1759~~
8

Revenue Survey Office
Ootacamund

29th January 1872

From
The Assistant Superintendent Revenue Survey
Nilghevries
To
The Superintendent Revenue Survey
Sir

According to your instructions in letter No. ¹⁰⁷₂₃ dated 20th January 1872, I have taken in hand the surface survey of the Wood Cinchona Estate.

I have the honour to inform you that it will be necessary to cut away some of

MAP

Shewing excess of surface over base

Measurement on a portion

OF THE

WOOD ESTATE

Area

Surface Measurement. 61.92

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of the branches of the Cinchona trees, and in some cases the trees themselves, to carry out the simple method of ascertaining the surface area adopted by you.

3 I am of opinion that, if the Estate be accurately contoured, either with level or theodolite, and boning staves, the loss to Government in well grown trees will be great indeed.

4 It seems to me, from personal inspection and from measurements taken with my own hands on the ground and in various parts of the estate, that the average distance between the Cinchona plants, taking in the late supplies, will be about 5 1/2 feet.

5 Suppose we assume 5 1/2 feet to be the average distance between the trees, we have then, by Survey, 100137 trees on an area of 69.54 acres (base measurement). If we take the distance at which the trees were supposed to be planted viz. 7 x 7 we have 888 trees to the acre, divide the number of trees derived from the assumption that they are planted 5 1/2 x 5 1/2 viz. 100137 by 888. We have an area of 112.76 acres (surface measurement) or nearly the amount of land that Mr. Mc Ivor supposed he had planted.

6 From the above it appears to me that the expenditure of money in contouring the

of the estate and the loss of Capital by
cutting down the cinchona trees, should
not be incurred without further reference
to Government, more especially as no
general results will be obtained from
the surface measurement of a very small
portion of the Hills. We shall know the
exact excess of surface over base measure-
ment on that particular block of land,
but shall be as much in the dark as
before as to the rest of district.

7 I would suggest that at any rate, before
orders for the contouring of the estate be given,
two persons should be deputed to take
the measurements between a certain
number of trees say 2000; each person taking
1000, by this method an approximate average
might be arrived at, and both the base
and surface measurement computed.

8 I submit the above for your perusal
with due deference, and trust you will
inform me whether you think my views
worthy of consideration.

I am
Signed C.C. Largeauant Captain
Asst Supto Rev Survey.
(True copy)

H. Smithy Colours
Superintendent Rev Survey

[illegible][illegible]

1872. CHAS.
From
87-999.
The Superintendent Revenue Survey.
To
The Offg. Chief Secretary to Government
Dated 19th Dec 1872
Despatched 21st Dec 1872
Received 22nd Dec 1872
General No. 459
Enclosure No. 1
Departmental No. 16
Subject.
REFERENCE.
With reference to
L.O. No. 1532 of 5th April
1871 submit information
as to the survey and
levelling of the land
Crown's plantation.
Done