

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer 7

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	1532	Press -Mis-
Dated	5-9-	1871.

Not to be folded or roughly handled*21/10/30*

*Proceedings of the Madras Government, Revenue Department,
5th September 1871.*

Read again G. O., 22nd June 1871, 1,097, Revenue Department:—

No. 52. Read also the following letter from the Commissioner of the Nilgiris, to the Secretary to Government, Revenue Department, dated Ootacamund, 10th August 1871, No. 63:—

With my letter* of the 19th October 1870, No. 57, I sent up Mr. McIvor's

Cinchona Budget for 1871-72, amounting to Rs. 39,100. Subsequently, Government in their Order of the 7th February

1871, No. 249, called for a reduction in the Budget.

In my letter† of the 20th April 1871, No. 30, I proposed certain reductions

to which Mr. McIvor took exception, and I now forward a Budget-estimate revised by him, in accordance with paragraph 5

of Government Order, Revenue Department, 8th June 1871, No. 1,011, amounting to Rs. 34,337.

2. Mr. McIvor estimates that he will require for working charges Rs. 16 per acre of base measurement. In paragraphs 9 and 13 of my letter of the 20th April, I proposed Rs. 10 or 12, or even more, if thought necessary. It is a great point to have the annual estimate framed on some intelligible principle.

Mr. McIvor thinks‡ that next year the estimate may be reduced to 12 Rs. per acre.

3. I have nothing to say against the revised estimate, except that I do not see the necessity for a second Overseer on 50 Rs. a-month for the Dodabetta plantation, and that I think Rs. 16 per acre for working charges a liberal allowance.

I trust that there will be a considerable saving at the end of the year.

4. With reference to paragraph 5 of Mr. McIvor's letter now forwarded, I have merely to remark that I did not think it desirable to furnish him with the names of the gentlemen who told me that, in their opinion, a sum of Rs. 10 per acre was sufficient for working charges for the Government plantations.

5. As regards paragraph 8 of his letter I am not aware that I have anywhere expressed an opinion that "the whole of our plants are placed 7 feet apart."

When the great difference between Mr. McIvor's areas and the survey areas was brought to my notice during Mr. McIvor's absence in Bengal, I especially referred to Mr. Dawson, the Assistant Superintendent in charge of Neddiwuttum and Pycarah, to know how wide apart the Cinchona trees on the Wood Estate were planted.

I have his letter in reply in which he says that "the plants in the Wood and the Hooker plantations are planted 7×7."

§ Wood Estate, 128 acres, by Mr. McIvor's estimate. Therefore in my letter of the 20th April, paragraph 2, when speaking of the Wood Estate, I said "there must be

69.65 acres by Survey measurement. "some mistake in the number of the trees planted, or they must be planted at less intervals apart than 7×7 as I am informed."

I am now glad to find from Mr. McIvor that they are planted at all distances, "varying from 3 to 12 feet," which renders it probable that the mistake is merely in estimate of area and not in number of trees.

6. The rest of Mr. McIvor's letter opens out an interesting question for the Survey Department.

The calculations in paragraph 9, to ~~top~~ of any value, should be based upon trial slopes, which represent, in due proportion, the maxima media and minima gradients of the estate experimented upon.

With the aid of Captain Sargeant I myself have taken trial slopes of the steepest pitches I could find in ravines and such like places on Dodabett, and have found plenty of gradients of 1 in $1\frac{1}{2}$ and 1 in 2.

But then there are roads on the same estate where the gradient is 1 in 4, 1 in 5, 1 in 6, 1 in 8, and so on.

According to the lay of the land over which you run your levels, the mean gradient may come out any thing between 1 in $1\frac{1}{2}$ and 1 in 12.

The question is what is the *real average* gradient all over a plantation; over the Wood Estate, for example, in which there is the greatest error in estimated area?

7. Mr. McIvor seems to acquiesce in the survey computation that a slope of 1 in 2 makes a difference of 11.8 per cent., but says "the true difference of "a rise of 1 in 2 with like undulations gives exactly 25 per cent. in favour of "surface measurement."

The steepest bit with undulations that I could find *in block* of but 7 acres gave, on a rough trial by the Survey Department, 13 per cent. (including undulations) in favour of surface measurement.

But granted that the Wood Estate of 69.65 acres has a slope from north to south of 1 in 2 all over, and has also a regular series of undulations from east to west of 1 in 2 all over, and that this will make a difference, as Mr. McIvor says, of 25 per cent. in favour of surface measurement. Add 25 per cent. to the survey area of the Wood Estate, and it still remains 33 per cent. short of the estimated area.

8. Mr. McIvor in paragraph 8 of his official letter makes the somewhat startling assertion that "the present survey has reduced the extent given in a "previous authentic Government Survey by nearly one-third."

In the margin he adds, by way of explanation, "the authentic survey "attached to the Devi Shola Title-deeds gives 501 acres of forest-land. The "present survey has reduced this to 362."

The former survey alluded to by Mr. McIvor is a survey by Sub-Engineer Williams with compass and chain. It makes the *total* area of the Devi Shola Estate 748 acres, viz. :—

Forest	...	...	...	505
Grass	...	...	...	157
Bought from Natives	...	...	...	86
				748

Mr. McIvor does not tell us by whom he was informed that the present survey makes the forest-land 362 acres.

The survey of the Devi Sholah Estate is still in progress; the details have not yet been filled in; the forest, grass, and puttah areas, within the boundary have not yet been computed; all the Survey Department can now state is that the total area of the estate by traverse amounts to 704 acres.

If Mr. McIvor (as I must presume) got the forest area (362) from some of the subordinates of the Survey Department who, in that case, must have communicated information upon a point which has not yet been ascertained, then it is difficult to understand how, as part owner of the estate, we failed to ascertain that the *total* area of the estate under the present survey, so far from showing a reduction on the previous survey of nearly 33 per cent., shows a reduction of not quite 6 per cent.

I trust that he has only hastily accepted an unauthorized statement without giving the matter much consideration.

But even this, I submit, is matter of regret, because if he had inquired at my Office he could easily have obtained all the information. I myself possess of the results (so far) of the Devi Shola Survey, and would thereby have saved me the necessity of officially refuting an assertion advanced without the least qualification and without proper inquiry.

9. Whether Mr. McIvor's estimate of area proves correct or incorrect is a matter of no importance, if the number of trees reported to have been planted is correct, and I am quite willing to believe that this will be found to be the case.

I would suggest, however, that orders should be issued to the Survey Department to ascertain accurately the average gradient of the Wood Estate, and the actual excess of surface measurement over base measurement in the whole plantation.

The result would be interesting and of use to survey operations in a mountainous country.

P.S.—Since writing the above I am informed by the Survey Department that the *first* computation brings out the forest area of Devi Shola 473.15 acres.

No. 53. ORDER THEREON, 5th September 1871, No. 1,532.

Miscellaneous.

In their Proceedings of 4th January 1871, No. 8, Revenue Department, the Government passed the Budget-estimate

for the Cinchona plantations for 1871-72, amounting to Rs. 39,100.

2. Subsequently, in consequence of the Supreme Government having reduced the estimate for "Botanical and other Gardens" by Rs. 5,040, a reduction of Rs. 3,006 in the Cinchona Plantations Budget was proposed towards meeting this reduction, the balance of Rs. 2,034 being left to be reduced on the Quinologist's estimate. Meanwhile, in their Order of 8th June 1871, No. 1,011, Revenue Department, the Government desired that the Cinchona Budget should be revised on the principle of adopting a fixed sum per acre for working charges.

3. Mr. Breeks now submits an estimate prepared by Mr. McIvor, amounting to Rs. 34,337 for the current year, being Rs. 4,763 less than that originally passed,

*Proceedings of the Madras Government, Revenue Department,
5th September 1871.*

and states that he has no objection to offer to it, save that he does not see the necessity for a second Overseer on Rs. 50 monthly for the Dodabett plantation.

4. The estimate includes the salary of the Superintendent of the Botanical Gardens, amounting to Rs. 1,742, and the working charges are provided at an average of Rs. 16 per acre for 868.43 acres base measurement, which Mr. McIvor says may safely be reduced to Rs. 12 72-73, and a further reduction be made in each succeeding year.

5. He estimates surface measurement to base measurement on the hills as $1\frac{1}{2}$ to 1, and that the surface area planted amounts to 1,200 acres, although the base measurement of the plantations by survey gives only 908.17 acres.

6. The Government accept the reduced estimate, and, as suggested by Mr. Breeks, desire that the Survey Department will ascertain accurately the average gradient of the "Wood" Estate at Pycarah, and the actual excess of surface measurement over base measurement in the whole plantation.

7. They are not, however, disposed to admit that the excess of area *really available for planting trees* can be nearly 25 per cent., although doubtless where the gradient is gradual, the gain in such area may be sensibly appreciable.

8. Mr. Broughton will report what amount of saving he expects to be able to effect on his original estimate for the current year.

(True Extract.)

(Signed)

W. HUDLESTON,

Secretary to Government.

To the Commissioner of the Nilgiris.
,, the Government Quinologist.
,, the Board of Revenue.
,, the Accountant-General.
,, the Superintendent of Revenue Survey.

Exd. F. R. Bantleman.

for the year is Rupees 32,595.

No 57. 2. 6. 71 Government Gardens 78
Cotacamund 31st July 1871

of
Kram,
W. G. McIvor Esq.
Supt. Govt. Chinchorra Plantations

W. Hindlestone Esq^r
Secretary to Government
Revenue Department

Sir,

With reference to para 5 of the Proceedings of Government, dated 8th June 1871, N^o 1011, I have the honor to submit a revised Estimate of the Colonial Department for 1871-72.

2. In accordance with directions received from the Commissioners of the Railheries, the working charges per acre are calculated by base measurement. Hitherto all calculations were made according to surface measurement, as we have to work the surface and not the base.

3 The salary of the Superintendent of the Botanical gardens, is annexed to the present Estimate, as under instructions from the Commission that Officer has drawn his pay from the Disincha part. Exclusive of this sum, the Budget Estimate for the year is Rupees 32,595.

Why is this ^{to}
not adequate?
What Cancer Bureau?
A.D.
Sir,

Oct. 11 1871

REVENUE.

THE COMMISSIONER OF THE INDIAN

333

and Spahr, 2006]

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G. O., 5th September 1871, No. 1, 302

SEPTEMBER

Nos. 52-53

Budget for Cincinnoti Ylons for 1871-72.—The reduced estimate submitted by the Commissioner accepted, and Mr. Streighton to report what saving can be effected on his original estimate for the current year.

*Proceedings of the Madras Government, Revenue Department,
5th September 1871.*

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8. Mr. Broughton will report what amount of saving he expects to be able to effect on his original estimate for the current year.

(True Extract.)

(Signed)

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To the Commissioner of the Nilgiris.

„ the Government Quinologist.

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Exd. F. R. Bantleman.

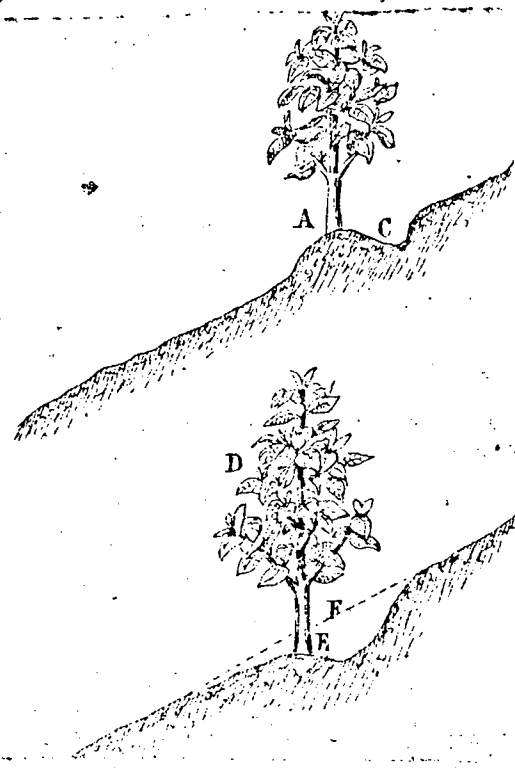
for the year is Rupees 32,595.

4. I regret to differ in opinion with the Commissioner as to the sum necessary to maintain an acre of Chinchona, but feel convinced that it is impossible to keep the Estates in tolerable order, at their present stage of growth, and in their present condition, for less than Rupees 16 per acre, base measurement, which on three Hills averages a little over $1\frac{1}{4}$ acres surface measurement. In my letter No. 7, recorded in the proceedings of Government above noted, I brought to the notice of the Commissioner, that, in consequence of the small expenditure of last year, the young plants had suffered considerably, and to "preserve and replace them", would necessitate a greater expenditure during the present year. The condition of our plantations, and the loss of young plants, convinces me that to work our plantations with a sum insufficient to maintain them in good order will in the end prove bad economy. In 1872-73 the cost per acre can be reduced without injury to the plantations to about 12 Rs., and in each succeeding year, a further reduction can be made.

5. The Commissioner in para 9 of his letter observes, "I am told by practical planters, that, in their opinion, omitting all superintendence, a sum of 10 Rs. per acre, is sufficient to keep down weeds, repair roads, drains, &c. in Estates on the Huilcherries." Being anxious to make the acquaintance of gentlemen well-able to advise on matters of economic cul-

cultivation, and to see Estates managed on this expenditure, I requested the favor, of the Commissioner being so good as to furnish me with the names of the parties and Estates to which he referred. In reply I am informed that, the Commissioner is "unable" to furnish the names of the Planters, or of any Estate "on the Huilcherries, maintained on 10 Rs. per acre per annum."

6. On our Chinchona plantations, in addition to weeding, draining, &c., we have to prune and remove surplus seed capsules. If these operations are not performed, the growth of the plant is impeded. The meaning of draining a Chinchona plantation is not generally understood; we have not only to make the ordinary main drains and channels, but in all steep places a drain must be formed round each plant, and reopened after heavy rains, or the plants are destroyed by the earth being washed around the stems as described in my report recorded in Proceedings of Govt. Rev. Dept. 20 June 1867.



11. To avoid the loss and disappointment likely to arise from the above cause, the plants should be placed on hillocks of earth cut out from the side of the hill, and slightly raised, as at A, with a drain of a few inches in depth cut around on the hill side, as at C, thus preventing the wash of earth around the stem of the plants. A plant in danger of being destroyed is shewn at D, the loose earth having fallen down from the hill and covered the stem above the dotted line at the crown of the root at E, to the dotted line at F. Fermentation appears to set in on the covered bark, and is immediately followed by a fungus, which entirely destroys the texture of the bark, and causes the death of the plant.

7. In Bengal, the Superintendent of
Chinchona cultivation, Estimates, that, <sup>* Letter to the Secy
to the Govt of
Bengal, 11.20.2, dated 19. July, 1870.</sup>
(including Superintendence and all charges) a Chinchona plantation can be formed & maintained
for 3 years at 100 Rupees per acre! still that gentleman
allows 22 Rs. per acre, as the annual cost of the
"repeated jungle cutting", i. e. cutting down the weeds.

8. The Commissioner of the Nilgheries
seems to be of opinion, that, the whole of our plants
are placed 7 feet apart. This is not the case, as we
have planted at all distances, varying from 3 to 6 feet.
In some instances, the rows are 6, and 7 feet apart,
and the plants placed 3 and 4 feet in the rows.
By calculating the number of plants and distance
apart, I estimate we have by surface measurement
1200 acres of land planted. It seems to have
caused some surprise, that, by the present survey
this extent of land should have been reduced to
908.71. acres base measurement. In a rugged
mountainous country, this, I submit, is a very
natural result. Even had the land been
surveyed and demarcated prior to being planted
a greater difference than now exists, might have
occurred, because, the present survey has reduced
the extent given in a previous
authentic Government Survey by
nearly $\frac{1}{3}$ while it gives scarcely
 $\frac{1}{4}$ less than my estimate.

* The authentic survey
attached to the Deval
Sholaville Deeds gives 501
acres of forest land. The
present survey has reduced
this to 362.

9. In the Commissioner's letter the attention of ^{11x}
Government, is drawn to the fact, that surface
measurement, represents the roof of a house, while the
survey plan represents the floor. This simile would
have been complete, had that gentleman said
a corrugated roof, as our Hills invariably undulate
as well as rise. Captain Sargeant is quoted, as
affirming, that the difference, when the slope of
the ground is 1 in 2, would be only 11.8 in favor
of surface measurement; this is correct, if the ground
rise in one plane only, but this never occurs. The
land invariably undulates as well as rises. The true
difference of a rise of 1 in 2 with like undulations
gives exactly 25 per cent in favor of surface
measurement.

10. Several gradients of the planted land at
Neddivittum taken on Wednesday last, and calculating
the undulations as equal to the rise, gave the
following results.

Steep Slopes

Rise of 1 in 1.07 gives in 1 acre base 1.966 acres surface measurement
— " — 1 " 1.204 — " — 1 " — 1.689 — " —

Moderate Slopes

— " — 1 " 1.393 — " — 1 " — 1.515 — " —
— " — 1 " 1.732 — " — 1 " — 1.833 — " —
— " — 1 " 2.055 — " — 1 " — 1.237 — " —

Low Slopes

— " — 1 " 2.320 — " — 1 " — 1.186 — " —
— " — 1 " 2.829 — " — 1 " — 1.125 — " —

11. The mean of the moderate slopes give to 908.71
acres base measurement 1.237 acres surface measurement.
The average of the low and moderate slopes combined
give 1.162 acres surface measurement. Thus, our estimated
area of 1,200 acres seems to be quite confirmed by the
survey of 908.71 acres of base measurement.

I have the honor to be

Sir,

Your most obedient servant

W. M. G. M.

Supt. Govt. Chinchona Plant^g.

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The average of the low and moderate slopes combined
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Sir,

Your most obedient servant

W. B. Smith

Supt. Govt. Cinchona Plant^{ns}

1871

From, the Sup't. Genl. Office
Potomac
at
The day to Genl.
Rev. Dep't.
Potomac

Dated 31st July 1871
Recd. 2 Aug 1871

Ac^{ts} 57
Enclosure 1

Revised Budget Estimate
Submitted to — of the Education
Department for 1871-72.

At 257 8/71.

United States Patent Office, Washington, D.C.

F. Feltmate Pine 2 Sawee - Concomitant - Concomitant - Plantations - New England

Number	Description of Charges	Actuals	Budgeted Estimate	Amount paid by the Government
1870 1871		1870 = 70	1871 = 72	
1	V. Education Service and Art			
1	22. Civil-Commercial Plantations, Almonds and Almonds			
1	Superintendent & \$500 per annum	600	600	600
1	Do (Travelling allowance & \$73 per diem	1100	1100	1100
1	Office Manager & \$60 per annum	720	720	720
6	Propagators & \$10 each do	1200	1200	1200
4	Peons & 8 " do	348	348	102
1	Buy Clerk	600	"	"
1	(Medicine Plantation)			
1	Resistant Superintendent 200 x 1 - 150 x 11	1810	1810	1850
1	Peons & \$50 per annum	600	600	600
2	Manufactory 20 " do	360	360	344
2	Peons & 8 " do	172	172	142
1	Peons & \$70 per annum	840	840	840
2	Manufactory 15 " do	288	288	187
1	(Medicine Plantation)			
1	Peons & \$50 per annum	1741	1741	1741
1	Manufactory 70 x 2	840	"	630
1	Peons & \$50 per annum	600	600	600
2	Manufactory 15 " do	324	324	180
1	(Medicine Plantation)			
1	Peons & \$70 x 3	480	480	120
1	Manufactory 12 x 3	12	168	36
1	Peons & 7 each 40 x 3	3270	631	147
1	Working Charges 500.43 Peons & \$10	17215	16955	19875
1	Peons and 4 Contingents	1914	2000	1163
1	Peons for Peons & Manufactory	67	442	110
1	Peons of Peons	212	810	1544
1	Peons of Peons	126	790	150
1	Peons of Peons	2123	2570	1000
1	Peons of Peons	1121	1190	350
1	Peons of Peons	150	"	120
1	Peons of Peons	320	1000	"
1	Peons of Peons	11893	12080	32525
1	Peons of Peons	15418	1740	1742
1	Peons of Peons	1210	1200	"
1	Peons of Peons	1120	1120	"
1	Peons of Peons	117455	115400	3433
1	Peons of Peons			

Government Gardens
 Botanic Garden 31st July 1871.

47. Approved 31st July 1871.

10

Sept 17

Commissioner's office
 1917
 October 10th August 1871

1863

From
 J. H. Bracks Esq.
 Commissioner
 of
 the Territory to Government
 Revenue Department
 (Brahmanab.)

* No. of Govt.
 R. D. 4th January
 1871 to 16.

With my letter of the 19th October 1870 to 57 I sent up Mr. Mc. Lears. Chin-
 chona Budget for 1871-72 amounting to Rs
 39100. Subsequently Government in their
 Order of the 1st February 1871 to 249 ordered
 for a reduction in the Budget.

* *
 No. of Govt.
 R. D. 8th June 1871
 to 84.

In my letter of the 20th April 1871 to 30 I proposed certain reductions to which
 Mr. Mc. Lears took exception, and I now
 forward a Budget statement revised by
 him in accordance with para 5 of Govern-
 ment Order Revenue Department, 5 June
 1871 to 104, amounting to Rs 34337.
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 will

Received Budget Estimate
 of the Govt. Chinchona
 Department for the fiscal
 year 1871-72.
 R. D. 8/71.
 1871-72
 1871-72

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estimate framed on some intelligible
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Plantations.

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during Mr. McIvor's absence in Bengal
I especially referred to Mr. Dawson the
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how wide apart the *Chinchona* trees on
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the Hooker Plantations are planted 7 x 7".
Therefore in my letter of the 20th April para
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must be planted at less intervals apart
than 7 x 7 as I am informed".

I am now glad to find from

x Wood Estate
128 acres by Mr.
McIvor's letter
= 128
by 65 acres by
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ment.

Mr. McIvor that they are planted at all distances, "varying from 3 to 12 feet," which renders it probable that the mistake is merely in estimate of area and not in number of trees.

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But there are steep roads on the same estate where the gradient is 1 in 4, 1 in 5, 1 in 6, 1 in 8 and so on.

According to the lay of the land over which you run your levels, the mean gradient may come out anything between

between $1\frac{1}{2}$ in 2 and 1 in 12.

The question is what is the real average gradient all over a plantation, over the Wood Estate for example in which there is the greatest error in estimated area?

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But granted that the Wood estate of 69.65 acres has a slope from North to South of 1 in 2 all over and has also a regular series of undulations from East to West of 1 in 2 all over ^{and that} this will make a difference as Mr. McIvor says of 25% in favor of surface measurement. Add 25% to the Survey.

Survey area of the Wood Estate and it still
remains 33% short of the estimated area—
Dr. Mr. McIvor in para 8 of his official
letter makes the somewhat startling
assertion that "the present Survey has reduced"
"the extent given in a previous Authentic"
"Government Survey by nearly 1/3"

In the margin he adds by way of
Explanation, "the Authentic Survey attached"
"to the Devi Shola Title Deeds gives 505 acres
of Forest Land. The present Survey has
"reduced this to 362."

The former Survey alluded to by
Dr. Mr. McIvor is a Survey by Sub Engineers
Williams with Compass and Chain. It makes
the Total area of the Devi Shola Estate 748
acres viz.

505 Forest.

159 Grass

84 Bought from private

748.

Dr. Mr. McIvor does not tell us by whom he
was informed that the present Survey
makes the Forest land 362 acres.

The Survey of the Devi Shola Estate
is still in progress; the details have not yet
been filled in; the forest, grass and puttable
areas.

25
areas within the boundary have not yet been
Computed; all the Survey Department
can now state is that the total area of the
estate by traverse amounts to 704 acres.

If Dr. Mr. McIvor (as I must presume)
got the Forest area (362) from some of the
Subordinates of the Survey Department,
who in that case must have communicated
information upon a point which has not yet
been ascertained, then it is difficult to
understand how, as part owner of the
estate, he failed to ascertain that the
total area of the estate under the present
Survey so far from showing a reduction
on the previous Survey of nearly 33 per cent
shows a reduction of not quite 6 per cent.

I trust that he has only hastily
accepted an ^{un}authorised statement
without giving the matter much consider-
ation.

But even this, I submit, is matter
of regret, because if he had enquired at
my office he could easily have obtained
all the information I myself possess of
the

the results (so far) of the Devi Chola Survey
and would thereby have saved me the
necessity of officially refuting an assertion
advanced without the least qualification
and without proper inquiry.

9. Whether Mr. Mc. Linn's estimate of
area proves correct or incorrect is a matter
of no importance if the number of trees
reported to have been planted is correct
and I am quite willing to believe that this
will be found to be the case.

I would suggest however that
orders should be issued to the Survey
Department to ascertain accurately the
average gradient of the Wood Estate and
the actual excess of surface measurement
over base measurement in the whole
plantation.

The result would be interesting
and of use to Survey operations in
mountainous country.

I have the honor to be

Sir

Your most obedt. Servt.

W. S. Miles

(Commissioner)

P. S.

Since writing the above I am
informed by the Survey Department that
the first computation brings out the
Forest area of Devi Chola 475.15 acres.

W. S. Miles

(Commissioner)

Commissioner's Office,

Ootacamund.

10

The Secretary to

1892

Ernesto Esquivel

Redeemed

Conclusions.

✓

Chiricahua

SUBJECTS.

Budget *Lebenshaltung*

the revised Budget Estimates for
the — Budget Estimate for
1891-92 and a letter from
Mr. Secretary with reference
thereto.

Sp. 121502, 597 of 1000

1521

25

C. № 2548

1001532

3rd Sept. /41-

29x

Madagascar. P.O. 22. June 71.
No. 1097. R.S.

Leaves.

Don John? & Co.

9. 10 Aug 71.

In this Encl. of 4.
Aug 71. L. O. S. R. S.
The Govt. passed the Budget
Returns for the Pinchona
plantations for 1871-72.
amtg to Rs. 29,100 -

Subsequently in consequence
of the Suppl^y. having exceeded
the estimate for Botanical
& other gardens by N^o. 5040.
a reduction of N^o. 2008
in the Cinchona plants.
Budget was proposed
towards meeting this
reduction. The balance
of N^o. 2084. being left &
by added on the
Quinologist's estimate.
Exceeded like in this order.

of 8 June 71. P. 1011. Ed.
 He got drunk that the
 Lincoln budget etc.
 He advised on the principle
 of adding a fixed sum
 per acre for working charges.

Mr. Buchanan submits
 an estimate prepared by
 Mr. H. L. Lox - amounting
 to P. 34,337 for the
 current year being
 P. 4783 less than that
 originally passed - and
 states that he has no
 objection to Mr. Lox's claim
 that he does not see the
 necessity for a 25
 second increase on
 P. 50 annually for the District
 Plantation.

The estimate includes
 the salary of the Superintendent
 of the Botanical Gardens
 the salary of the
 Gardens the salary of the

Should not this
 be provided for
 separately. It is
 a mistake to mix
 it up with the
 Lincoln expenditure.
 A. V.

of the Botanical Gardens ³¹⁷ and
 the working charges are fixed at
 an average of P. 16 per
 acre for 888.13 acres
 less measurement.
 Mr. H. L. Lox says that
 lately he reduced to P. 12
 in 1872.73. and as the
 estimate made in each
 succeeding year.

The estimate of surface measure
 is based on the surface measurement
 as 1/4 of 1. and that
 the surface area planted
 amounts to 1200 acres.
 although the face measurement
 of the plantation by survey
 amounts to only 908.17 acres.

He got accept the
 reduced estimate - and
 as suggested by Mr. Buchanan
 that the Survey
 Department with assistance
 ascertain the average
 gradient of the "Koot" at
 at. of Koot and the
 actual excess of

Is this with the
 expense & time &
 trouble? If he has
 known many trees he has
 that is fairly enough.

surface measurement over
 the measurement in
 the 2nd plantation.

I think it is desirable to
 ascertain this. It will
 be in some measure an
 aid in estimating
 the surface area of
 the plantation.

My own experience
 would lead me to admit that the
 excess area really available
 for planting trees can be
 nearly 25 percent. altho
 drift has been the gradient
 is gradual; the gain in such
 area may be sensibly
 appreciated in

N Better on the h. for
 the present. I believe
 it is the undulating
 character of the
 ground here that
 tells most.

W. Broughton & Co. report
 that amount of land
 he expects to be able to
 effect on his original
 estimate for the current
 year.

I would not be
 surprised if the
 amount asked here
 "I have compared
 the original
 estimate of land
 with the actual
 amount of land
 in the plantation
 and find that the
 original estimate
 was too low by
 about 25 percent."

- 2 Comm. Dig. in Dec. 1861
- 1. Genl. Summary
- 10. Sup. to the H. S.
- 6. Act. Genl.
- 10. Sup. to the Survey.

Ang. 11.
 I think not at
 present. In the past
 has been lately rather
 under depression. I would
 not use him more than
 is necessary for the
 purpose of the
 present.

60
1st of Sept
1861
—

1st of Sept
1861

1st of Sept 1861